



# 目录

| 类别             | 产品                                                                | 页码    |
|----------------|-------------------------------------------------------------------|-------|
| EMC            | 叠层片式通用磁珠<br>Multilayer Chip Ferrite General Bead(SCBG)            | 1-12  |
| EMC            | 叠层片式尖峰磁珠<br>Multilayer Chip Sharp Bead(SCBY)                      | 13-18 |
| EMC            | 叠层片式高频磁珠<br>Multilayer Chip High Frequency Bead(SCBH)             | 19-22 |
| EMC            | 叠层片式大电流磁珠<br>Multilayer Chip Large Current Bead(SCBW)             | 23-34 |
| EMC            | 叠层片式超大电流磁珠<br>Multilayer Chip Power Bead(SCBM)                    | 35-40 |
| Inductors      | 叠层片式铁氧体电感<br>Multilayer Chip Ferrite Inductor(SCMI)               | 41-47 |
| Inductors      | 叠层片式大电流电感<br>Multilayer Chip Ferrite Large Current Inductor(SCMP) | 48-53 |
| Inductors      | 叠层片式高频电感<br>Multilayer Chip Ceramic Inductor (SCHF)               | 54-59 |
| Inductors      | 贴片（高频）绕线电感<br>SMT Wire Wound Chip Inductor-High Frequency(SCWI-C) | 60-67 |
| Inductors      | 贴片（铁氧体）绕线电感<br>SMT Wire Wound Chip Ferrite Inductor(SCWI-F)       | 68-74 |
| Power Inductor | 贴片功率电感系列-NR<br>SMT Wire Wound Power Inductor -NR series (SCNR)    | 75-81 |
| Power Inductor | 贴片功率电感系列-CD<br>SMT Wire Wound Power Inductor -CD series(SCCD)     | 82-89 |



Multilayer Chip Ferrite General Bead SCBG Series 叠层片式通用磁珠 SCBG 系列

Features 特点

- Multilayer monolithic construction yields high reliability  
独石结构、高可靠性
- Excellent solderability and heat resistance for either flow or reflow soldering 良好的可焊性和耐焊性
- Substantial EMI suppression over a wide frequency range 在宽频段有显著的抑制噪声效果



Applications 应用

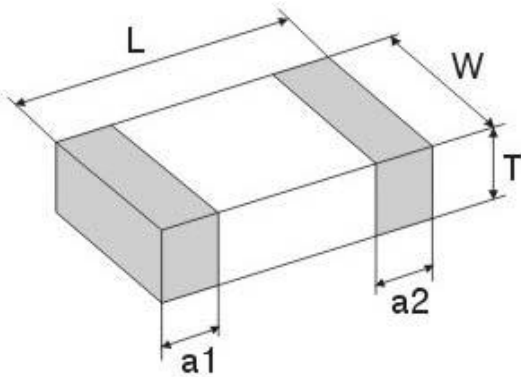
- Noise suppression in digital equipment such as computer and its peripheral devices, DVD, camera, OA equipments, etc 电脑及周边设备、DVD、照相机、办公设备等噪声控制

Product Identification 产品标识

SCBG 321609 U 102 T  
① ② ③ ④ ⑤

- ① Series name 系列名称
- ② Dimension 产品尺寸 L×W×T: 【321609: 3.2mm×1.6mm×0.9mm】
- ③ Material code 材料代码
- ④ Impedance阻抗: 【100=10Ω 101=100Ω 102=1000Ω】
- ⑤ Packing Style: 【 T: Taping 编带盘装B: Bulk 散装】

Shapes And Dimensions 外形及尺寸示意图



| Type          | Dimensions (mm) [inch]  |                         |                         |                         |
|---------------|-------------------------|-------------------------|-------------------------|-------------------------|
|               | L                       | W                       | T                       | a1, a2                  |
| 100505 [0402] | 1.00±0.15 [0.04±0.006]  | 0.50±0.15 [0.02±0.006]  | 0.50±0.15 [0.02±0.006]  | 0.25±0.10 [0.01±0.004]  |
| 160808 [0603] | 1.60±0.20 [0.063±0.008] | 0.80±0.20 [0.031±0.008] | 0.80±0.20 [0.031±0.008] | 0.30±0.20 [0.012±0.008] |
| 201209 [0805] | 2.00±0.20 [0.079±0.008] | 1.20±0.20 [0.049±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |
| 321609 [1206] | 3.20±0.20 [0.126±0.008] | 1.60±0.20 [0.063±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |
| 322513 [1210] | 3.20±0.20 [0.126±0.008] | 2.50±0.20 [0.098±0.008] | 1.30±0.20 [0.051±0.008] | 0.50±0.30 [0.02±0.012]  |
| 451616 [1806] | 4.50±0.20 [0.180±0.008] | 1.60±0.20 [0.063±0.008] | 1.60±0.20 [0.063±0.008] | 0.50±0.30 [0.02±0.012]  |
| 453215 [1812] | 4.50±0.20 [0.180±0.008] | 3.20±0.20 [0.126±0.008] | 1.50±0.20 [0.06±0.008]  | 0.50±0.30 [0.02±0.012]  |



Electrical Characteristics 电气性能

SCBG100505 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq. (MHz) | RDC( $\Omega$ ) Max. | Ir(mA) Max. |
|-----------------|------------------------|--------------------|----------------------|-------------|
| SCBG100505U000T | 0~15                   | 100                | 0.10                 | 300         |
| SCBG100505U050T | 0~15                   | 100                | 0.10                 | 300         |
| SCBG100505U070T | 0~11                   | 100                | 0.10                 | 300         |
| SCBG100505U090T | 5~13                   | 100                | 0.10                 | 300         |
| SCBG100505U110T | 7~15                   | 100                | 0.10                 | 300         |
| SCBG100505U150T | 9~21                   | 100                | 0.10                 | 300         |
| SCBG100505U190T | 12~25                  | 100                | 0.10                 | 300         |
| SCBG100505U260T | 26 $\pm$ 25%           | 100                | 0.15                 | 300         |
| SCBG100505U310T | 31 $\pm$ 25%           | 100                | 0.20                 | 300         |
| SCBG100505U360T | 36 $\pm$ 25%           | 100                | 0.20                 | 300         |
| SCBG100505U600T | 60 $\pm$ 25%           | 100                | 0.35                 | 200         |
| SCBG100505U800T | 80 $\pm$ 25%           | 100                | 0.40                 | 150         |
| SCBG100505U121T | 120 $\pm$ 25%          | 100                | 0.50                 | 150         |
| SCBG100505U151T | 150 $\pm$ 25%          | 100                | 0.55                 | 150         |
| SCBG100505U181T | 180 $\pm$ 25%          | 100                | 0.60                 | 150         |
| SCBG100505U221T | 220 $\pm$ 25%          | 100                | 0.70                 | 100         |
| SCBG100505U301T | 300 $\pm$ 25%          | 100                | 0.80                 | 100         |
| SCBG100505U501T | 500 $\pm$ 25%          | 100                | 1.10                 | 100         |
| SCBG100505U601T | 600 $\pm$ 25%          | 100                | 1.30                 | 100         |
| SCBG100505U801T | 800 $\pm$ 25%          | 100                | 1.40                 | 50          |
| SCBG100505U102T | 1000 $\pm$ 25%         | 100                | 1.60                 | 25          |

SCBG160808 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq. (MHz) | RDC( $\Omega$ ) Max. | Ir(mA) Max. |
|-----------------|------------------------|--------------------|----------------------|-------------|
| SCBG160808U000T | 0~15                   | 100                | 0.10                 | 800         |
| SCBG160808U050T | 0~15                   | 100                | 0.10                 | 800         |
| SCBG160808U070T | 0~11                   | 100                | 0.10                 | 800         |
| SCBG160808U090T | 5~13                   | 100                | 0.10                 | 800         |
| SCBG160808U110T | 7~15                   | 100                | 0.10                 | 800         |
| SCBG160808U150T | 9~21                   | 100                | 0.10                 | 800         |
| SCBG160808U190T | 12~25                  | 100                | 0.10                 | 500         |
| SCBG160808U260T | 26 $\pm$ 25%           | 100                | 0.10                 | 500         |
| SCBG160808U310T | 31 $\pm$ 25%           | 100                | 0.10                 | 500         |
| SCBG160808U600T | 60 $\pm$ 25%           | 100                | 0.20                 | 300         |
| SCBG160808U700T | 70 $\pm$ 25%           | 100                | 0.20                 | 300         |
| SCBG160808U800T | 80 $\pm$ 25%           | 100                | 0.20                 | 300         |
| SCBG160808U101T | 100 $\pm$ 25%          | 100                | 0.30                 | 200         |
| SCBG160808U121T | 120 $\pm$ 25%          | 100                | 0.30                 | 200         |
| SCBG160808U151T | 150 $\pm$ 25%          | 100                | 0.35                 | 200         |
| SCBG160808U181T | 180 $\pm$ 25%          | 100                | 0.45                 | 200         |
| SCBG160808U221T | 220 $\pm$ 25%          | 100                | 0.45                 | 200         |



Electrical Characteristics 电气性能

SCBG160808 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq. (MHz) | RDC( $\Omega$ ) Max. | Ir(mA) Max. |
|-----------------|------------------------|--------------------|----------------------|-------------|
| SCBG160808U301T | 300 $\pm$ 25%          | 100                | 0.50                 | 150         |
| SCBG160808U501T | 500 $\pm$ 25%          | 100                | 0.60                 | 150         |
| SCBG160808U601T | 600 $\pm$ 25%          | 100                | 0.60                 | 100         |
| SCBG160808U801T | 800 $\pm$ 25%          | 100                | 0.70                 | 100         |
| SCBG160808U102T | 1000 $\pm$ 25%         | 100                | 0.80                 | 100         |
| SCBG160808U122T | 1200 $\pm$ 25%         | 100                | 0.85                 | 100         |
| SCBG160808U152T | 1500 $\pm$ 25%         | 100                | 0.85                 | 50          |
| SCBG160808U202T | 2000 $\pm$ 25%         | 100                | 1.10                 | 50          |
| SCBG160808U222T | 2200 $\pm$ 25%         | 100                | 1.20                 | 50          |
| SCBG160808U252T | 2500 $\pm$ 25%         | 100                | 1.30                 | 50          |

SCBG201209 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq. (MHz) | RDC( $\Omega$ ) Max. | Ir(mA) Max. |
|-----------------|------------------------|--------------------|----------------------|-------------|
| SCBG201209U000T | 0~15                   | 100                | 0.08                 | 900         |
| SCBG201209U050T | 0~15                   | 100                | 0.08                 | 900         |
| SCBG201209U070T | 0~11                   | 100                | 0.08                 | 900         |
| SCBG201209U090T | 5~13                   | 100                | 0.10                 | 900         |
| SCBG201209U110T | 7~15                   | 100                | 0.10                 | 900         |
| SCBG201209U150T | 9~21                   | 100                | 0.10                 | 900         |
| SCBG201209U190T | 12~25                  | 100                | 0.10                 | 900         |
| SCBG201209U260T | 26 $\pm$ 25%           | 100                | 0.10                 | 900         |
| SCBG201209U310T | 31 $\pm$ 25%           | 100                | 0.10                 | 900         |
| SCBG201209U360T | 36 $\pm$ 25%           | 100                | 0.10                 | 900         |
| SCBG201209U600T | 60 $\pm$ 25%           | 100                | 0.15                 | 900         |
| SCBG201209U700T | 70 $\pm$ 25%           | 100                | 0.18                 | 500         |
| SCBG201209U800T | 80 $\pm$ 25%           | 100                | 0.18                 | 500         |
| SCBG201209U101T | 100 $\pm$ 25%          | 100                | 0.18                 | 400         |
| SCBG201209U121T | 120 $\pm$ 25%          | 100                | 0.20                 | 400         |
| SCBG201209U151T | 150 $\pm$ 25%          | 100                | 0.20                 | 400         |
| SCBG201209U181T | 180 $\pm$ 25%          | 100                | 0.20                 | 300         |
| SCBG201209U221T | 220 $\pm$ 25%          | 100                | 0.20                 | 300         |
| SCBG201209U301T | 300 $\pm$ 25%          | 100                | 0.35                 | 300         |
| SCBG201209U501T | 500 $\pm$ 25%          | 100                | 0.40                 | 300         |
| SCBG201209U601T | 600 $\pm$ 25%          | 100                | 0.40                 | 300         |
| SCBG201209U801T | 800 $\pm$ 25%          | 100                | 0.45                 | 200         |
| SCBG201209U102T | 1000 $\pm$ 25%         | 100                | 0.45                 | 200         |
| SCBG201209U122T | 1200 $\pm$ 25%         | 100                | 0.60                 | 100         |
| SCBG201209U152T | 1500 $\pm$ 25%         | 100                | 0.70                 | 100         |
| SCBG201209U202T | 2000 $\pm$ 25%         | 100                | 0.90                 | 50          |
| SCBG201209U222T | 2200 $\pm$ 25%         | 100                | 1.00                 | 50          |
| SCBG201209U252T | 2500 $\pm$ 25%         | 100                | 1.20                 | 50          |
| SCBG201209U272T | 2700 $\pm$ 25%         | 100                | 1.40                 | 30          |



Electrical Characteristics 电气性能

SCBG321609 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq. (MHz) | RDC( $\Omega$ ) Max. | Ir(mA) Max. |
|-----------------|------------------------|--------------------|----------------------|-------------|
| SCBG321609U000T | 0~15                   | 100                | 0.10                 | 1000        |
| SCBG321609U050T | 0~15                   | 100                | 0.10                 | 1000        |
| SCBG321609U070T | 0~11                   | 100                | 0.10                 | 1000        |
| SCBG321609U090T | 5~13                   | 100                | 0.10                 | 1000        |
| SCBG321609U110T | 7~15                   | 100                | 0.10                 | 1000        |
| SCBG321609U150T | 9~21                   | 100                | 0.10                 | 1000        |
| SCBG321609U190T | 12~25                  | 100                | 0.10                 | 1000        |
| SCBG321609U260T | 26 $\pm$ 25%           | 100                | 0.10                 | 1000        |
| SCBG321609U310T | 31 $\pm$ 25%           | 100                | 0.10                 | 1000        |
| SCBG321609U600T | 60 $\pm$ 25%           | 100                | 0.15                 | 1000        |
| SCBG321609U700T | 70 $\pm$ 25%           | 100                | 0.15                 | 1000        |
| SCBG321609U800T | 80 $\pm$ 25%           | 100                | 0.15                 | 1000        |
| SCBG321609U101T | 100 $\pm$ 25%          | 100                | 0.25                 | 1000        |
| SCBG321609U121T | 120 $\pm$ 25%          | 100                | 0.25                 | 1000        |
| SCBG321609U151T | 150 $\pm$ 25%          | 100                | 0.30                 | 400         |
| SCBG321609U181T | 180 $\pm$ 25%          | 100                | 0.30                 | 400         |
| SCBG321609U221T | 220 $\pm$ 25%          | 100                | 0.35                 | 400         |
| SCBG321609U301T | 301 $\pm$ 25%          | 100                | 0.40                 | 400         |
| SCBG321609U501T | 500 $\pm$ 25%          | 100                | 0.45                 | 300         |
| SCBG321609U601T | 600 $\pm$ 25%          | 100                | 0.45                 | 300         |
| SCBG321609U801T | 800 $\pm$ 25%          | 100                | 0.55                 | 300         |
| SCBG321609U102T | 1000 $\pm$ 25%         | 100                | 0.55                 | 300         |
| SCBG321609U122T | 1200 $\pm$ 25%         | 100                | 0.60                 | 100         |
| SCBG321609U202T | 2000 $\pm$ 25%         | 50                 | 1.00                 | 50          |

SCBG322513 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq. (MHz) | RDC( $\Omega$ ) Max. | Ir(mA) Max. |
|-----------------|------------------------|--------------------|----------------------|-------------|
| SCBG322513U110T | 7~15                   | 100                | 0.10                 | 1000        |
| SCBG322513U190T | 12~25                  | 100                | 0.10                 | 1000        |
| SCBG322513U260T | 26 $\pm$ 25%           | 100                | 0.10                 | 1000        |
| SCBG322513U310T | 31 $\pm$ 25%           | 100                | 0.10                 | 1000        |
| SCBG322513U600T | 60 $\pm$ 25%           | 100                | 0.15                 | 1000        |
| SCBG322513U700T | 70 $\pm$ 25%           | 100                | 0.20                 | 1000        |
| SCBG322513U800T | 80 $\pm$ 25%           | 100                | 0.20                 | 400         |
| SCBG322513U900T | 90 $\pm$ 25%           | 100                | 0.20                 | 400         |
| SCBG322513U101T | 100 $\pm$ 25%          | 100                | 0.20                 | 400         |
| SCBG322513U121T | 120 $\pm$ 25%          | 100                | 0.20                 | 400         |
| SCBG322513U151T | 150 $\pm$ 25%          | 100                | 0.30                 | 400         |
| SCBG322513U181T | 180 $\pm$ 25%          | 100                | 0.40                 | 400         |
| SCBG322513U221T | 220 $\pm$ 25%          | 100                | 0.40                 | 400         |



Electrical Characteristics 电气性能

SCBG322513 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq. (MHz) | RDC( $\Omega$ ) Max. | Ir(mA) Max. |
|-----------------|------------------------|--------------------|----------------------|-------------|
| SCBG322513U301T | 300 $\pm$ 25%          | 100                | 0.40                 | 400         |
| SCBG322513U501T | 500 $\pm$ 25%          | 100                | 0.40                 | 300         |
| SCBG322513U601T | 600 $\pm$ 25%          | 100                | 0.40                 | 300         |
| SCBG322513U801T | 800 $\pm$ 25%          | 100                | 0.40                 | 300         |
| SCBG322513U102T | 1000 $\pm$ 25%         | 100                | 0.40                 | 300         |

SCBG451616 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq. (MHz) | RDC( $\Omega$ ) Max. | Ir(mA) Max. |
|-----------------|------------------------|--------------------|----------------------|-------------|
| SCBG451616U190T | 12~25                  | 100                | 0.10                 | 1000        |
| SCBG451616U260T | 26 $\pm$ 25%           | 100                | 0.10                 | 1000        |
| SCBG451616U310T | 31 $\pm$ 25%           | 100                | 0.15                 | 1000        |
| SCBG451616U600T | 60 $\pm$ 25%           | 100                | 0.20                 | 1000        |
| SCBG451616U750T | 75 $\pm$ 25%           | 100                | 0.30                 | 1000        |
| SCBG451616U800T | 80 $\pm$ 25%           | 100                | 0.30                 | 1000        |
| SCBG451616U900T | 90 $\pm$ 25%           | 100                | 0.35                 | 1000        |
| SCBG451616U121T | 120 $\pm$ 25%          | 100                | 0.40                 | 500         |
| SCBG451616U151T | 150 $\pm$ 25%          | 100                | 0.40                 | 500         |
| SCBG451616U221T | 220 $\pm$ 25%          | 100                | 0.45                 | 500         |
| SCBG451616U301T | 300 $\pm$ 25%          | 100                | 0.45                 | 500         |
| SCBG451616U501T | 500 $\pm$ 25%          | 100                | 0.50                 | 200         |
| SCBG451616U601T | 600 $\pm$ 25%          | 100                | 0.50                 | 200         |
| SCBG451616U801T | 800 $\pm$ 25%          | 100                | 0.55                 | 200         |

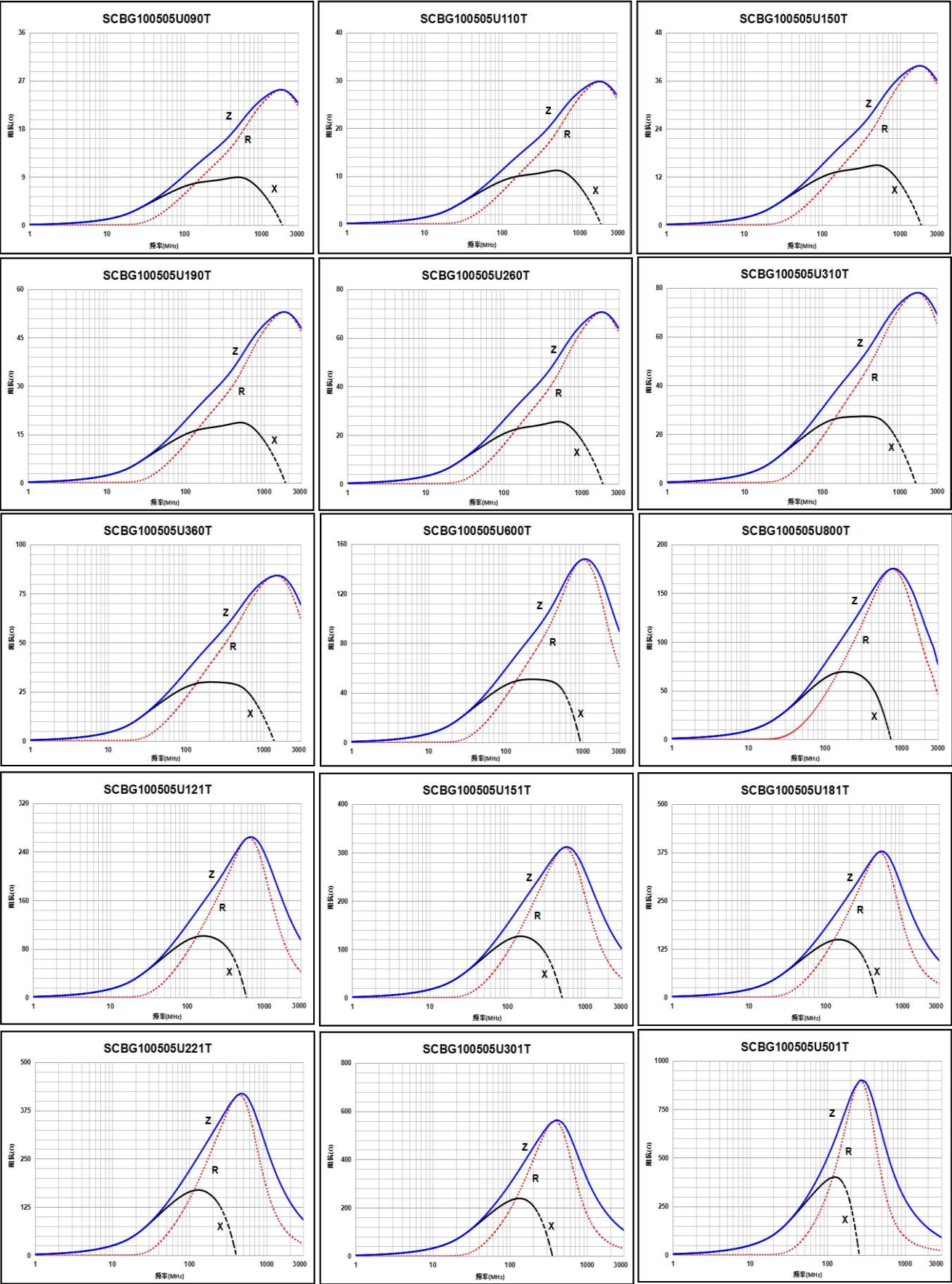
SCBG453215 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq. (MHz) | RDC( $\Omega$ ) Max. | Ir(mA) Max. |
|-----------------|------------------------|--------------------|----------------------|-------------|
| SCBG453215U300T | 30 $\pm$ 25%           | 100                | 0.15                 | 1000        |
| SCBG453215U310T | 31 $\pm$ 25%           | 100                | 0.15                 | 1000        |
| SCBG453215U380T | 38 $\pm$ 25%           | 100                | 0.15                 | 1000        |
| SCBG453215U600T | 60 $\pm$ 25%           | 100                | 0.20                 | 1000        |
| SCBG453215U700T | 70 $\pm$ 25%           | 100                | 0.20                 | 1000        |
| SCBG453215U800T | 80 $\pm$ 25%           | 100                | 0.20                 | 1000        |
| SCBG453215U900T | 90 $\pm$ 25%           | 100                | 0.20                 | 500         |
| SCBG453215U101T | 100 $\pm$ 25%          | 100                | 0.20                 | 500         |
| SCBG453215U121T | 120 $\pm$ 25%          | 100                | 0.25                 | 500         |
| SCBG453215U151T | 150 $\pm$ 25%          | 100                | 0.25                 | 500         |
| SCBG453215U221T | 220 $\pm$ 25%          | 100                | 0.30                 | 300         |
| SCBG453215U301T | 300 $\pm$ 25%          | 100                | 0.30                 | 300         |
| SCBG453215U601T | 600 $\pm$ 25%          | 100                | 0.40                 | 200         |



Impedance Frequency Characteristics 阻抗频率性能

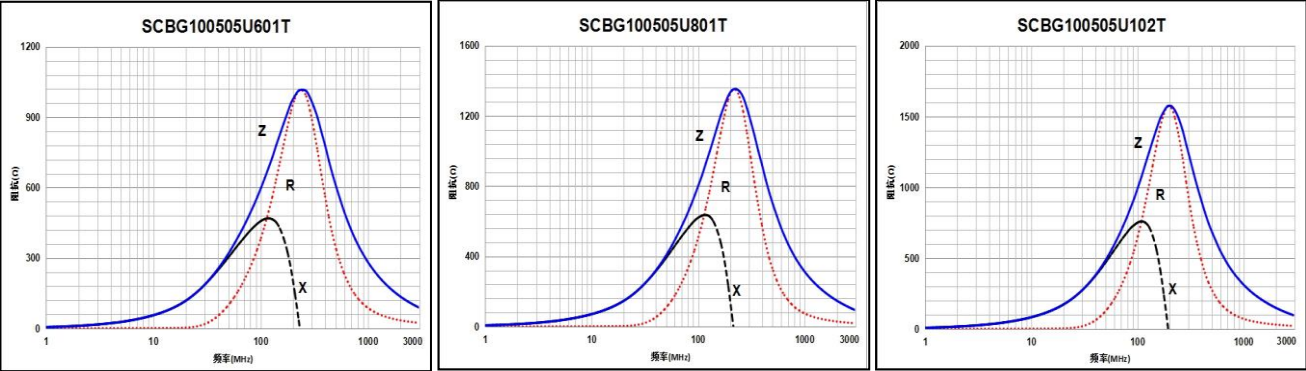
SCBG100505 Series



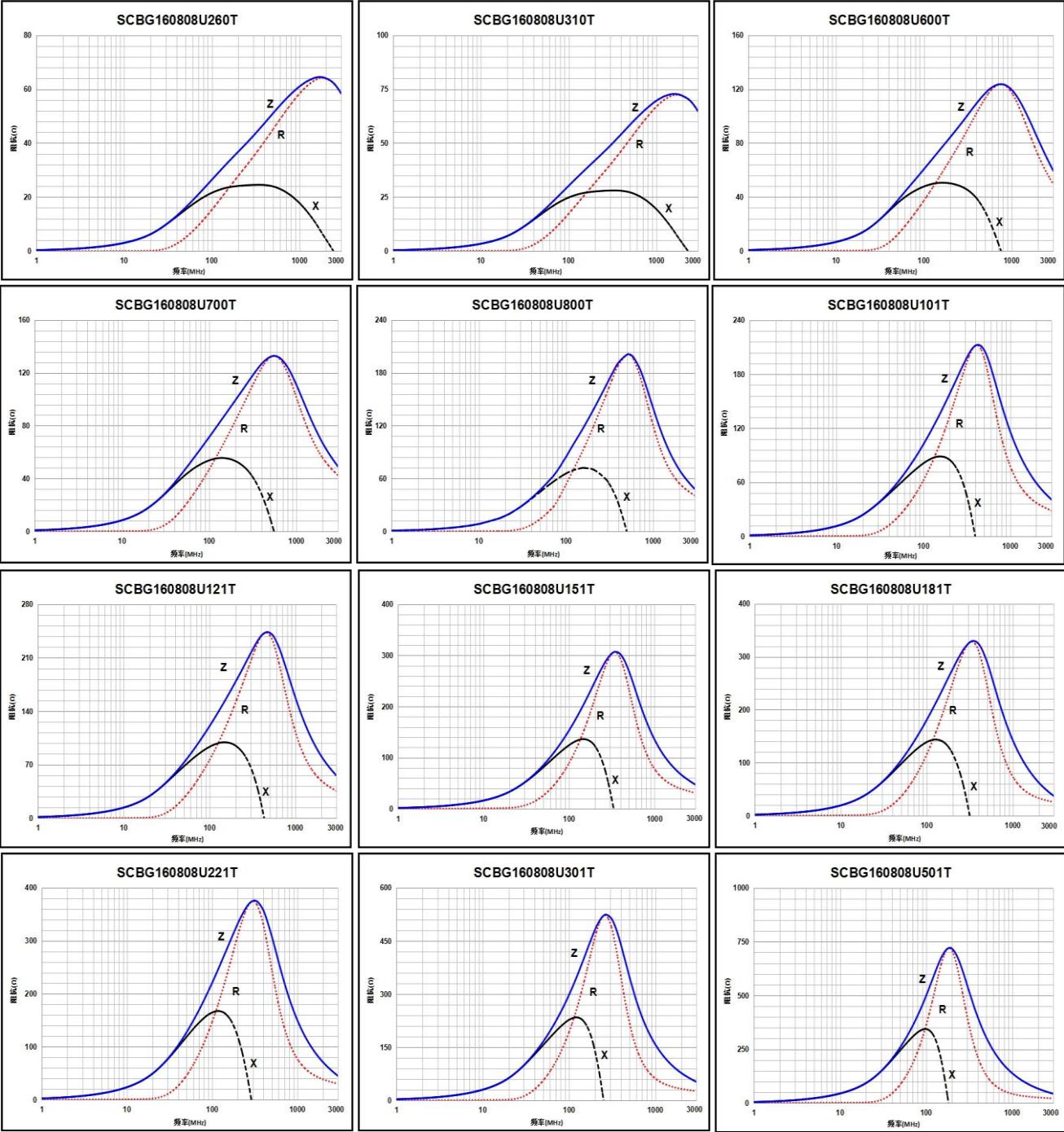


Impedance Frequency Characteristics 阻抗频率性能

SCBG100505 Series



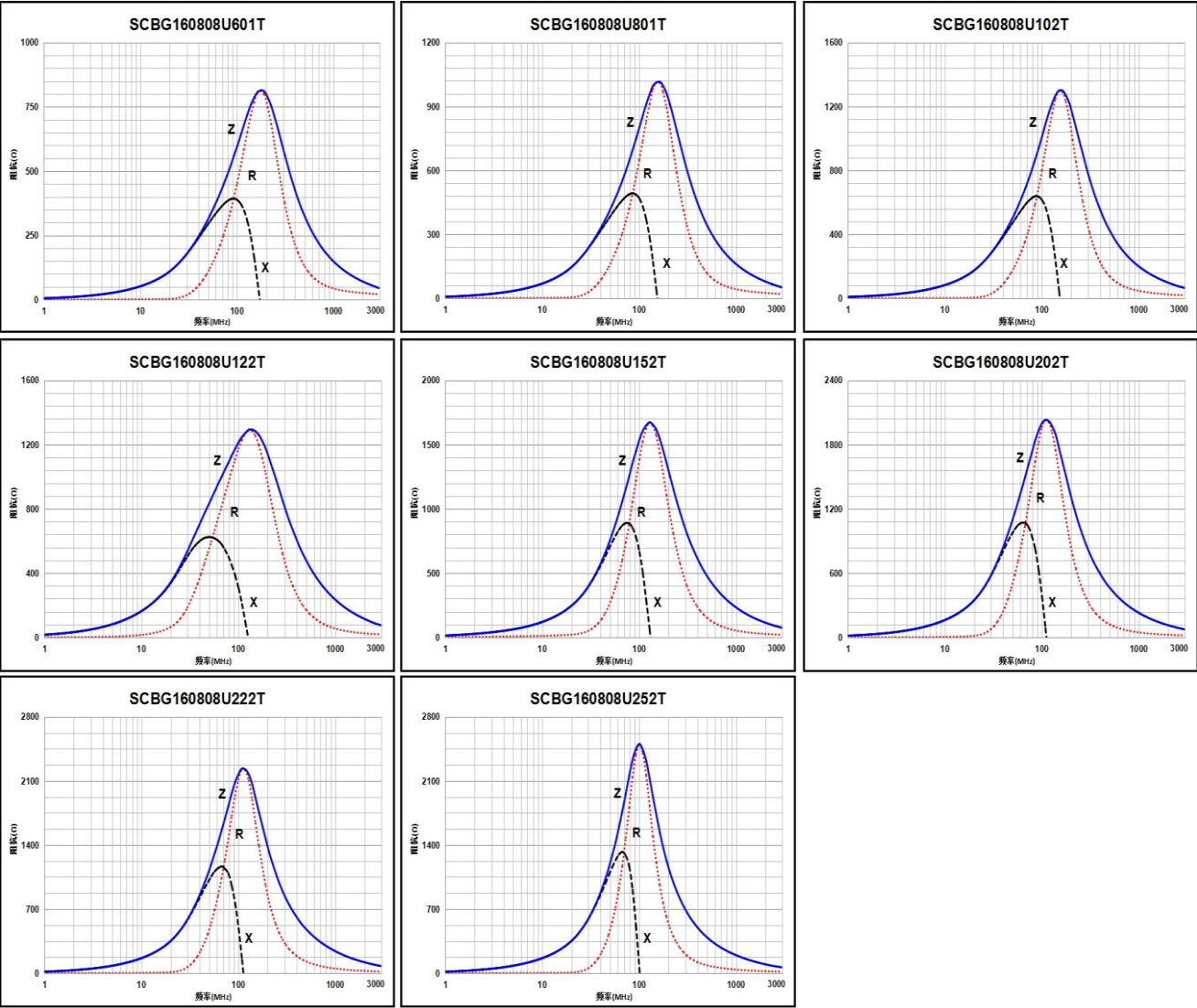
SCBG160808 Series



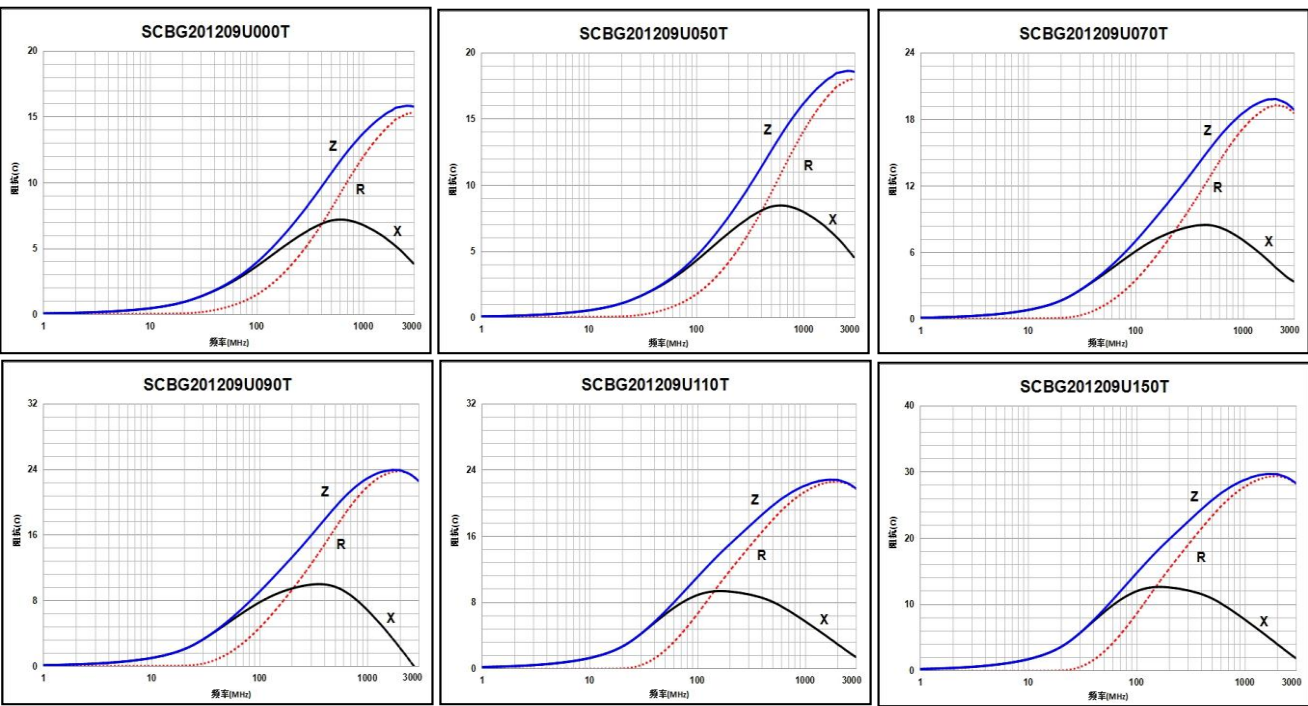


Impedance Frequency Characteristics 阻抗频率性能

SCBG160808 Series



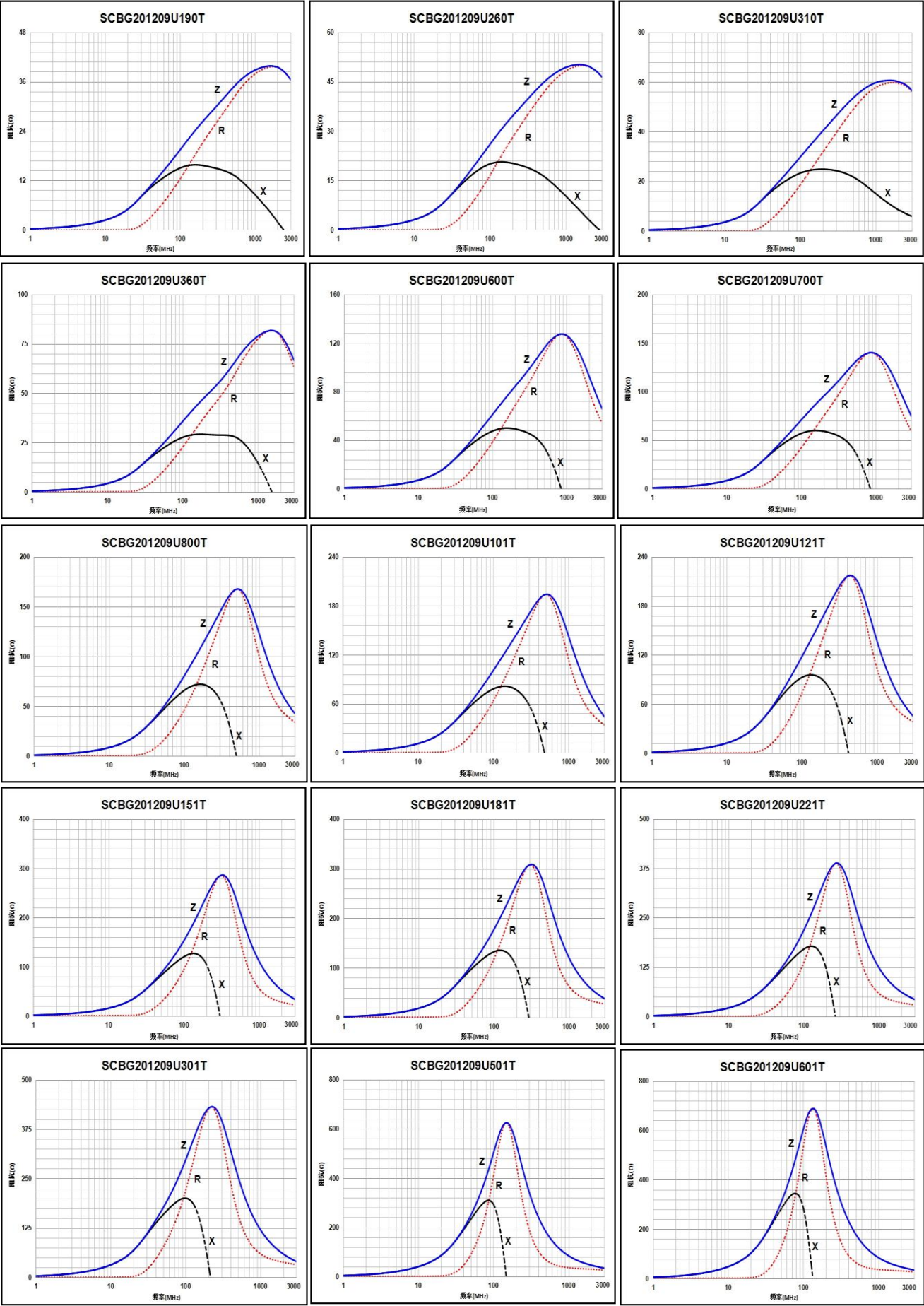
SCBG201209 Series





Impedance Frequency Characteristics 阻抗频率性能

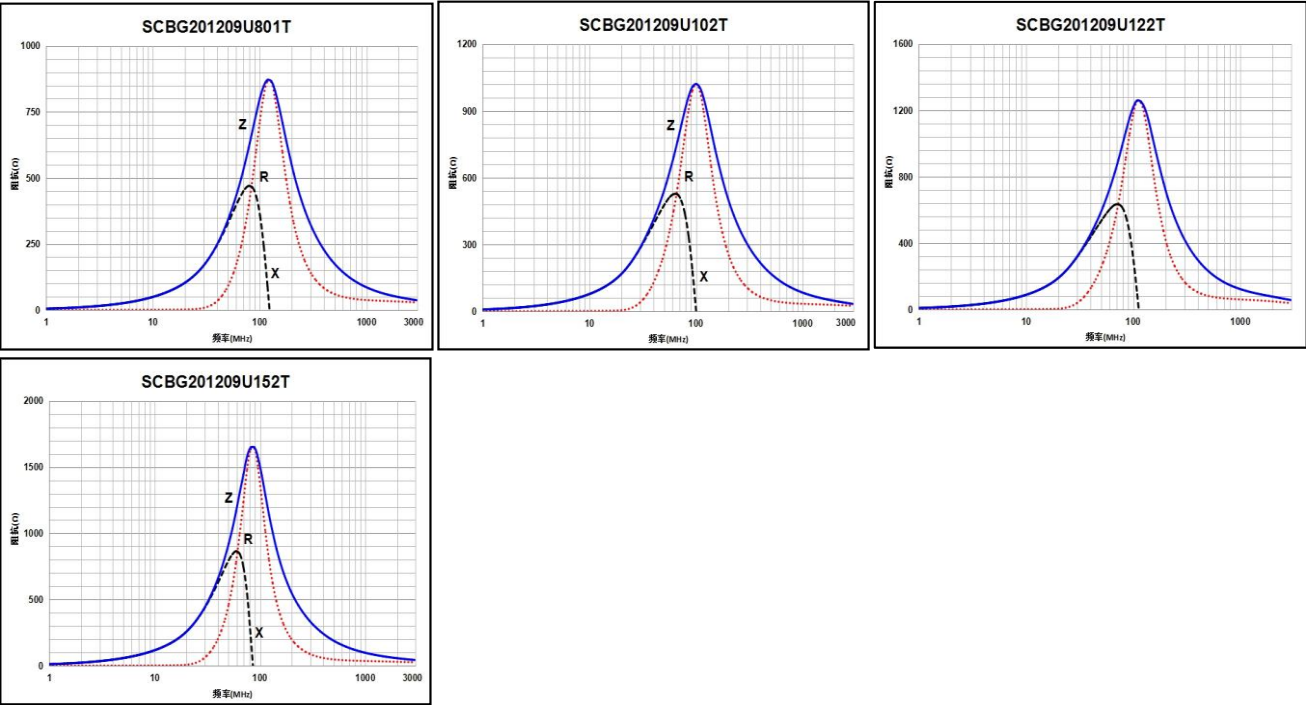
SCBG201209 Series



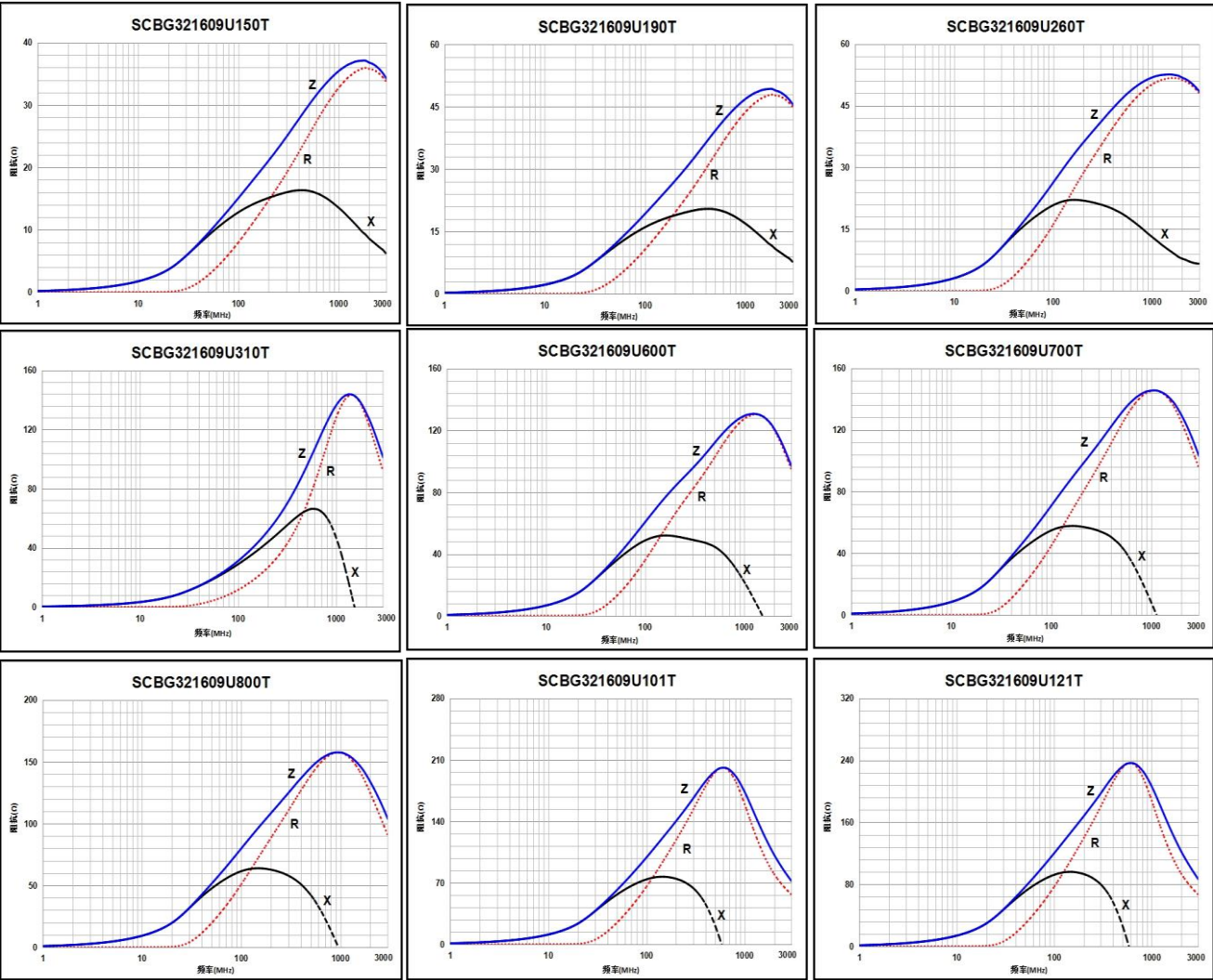


Impedance Frequency Characteristics 阻抗频率性能

SCBG201209 Series



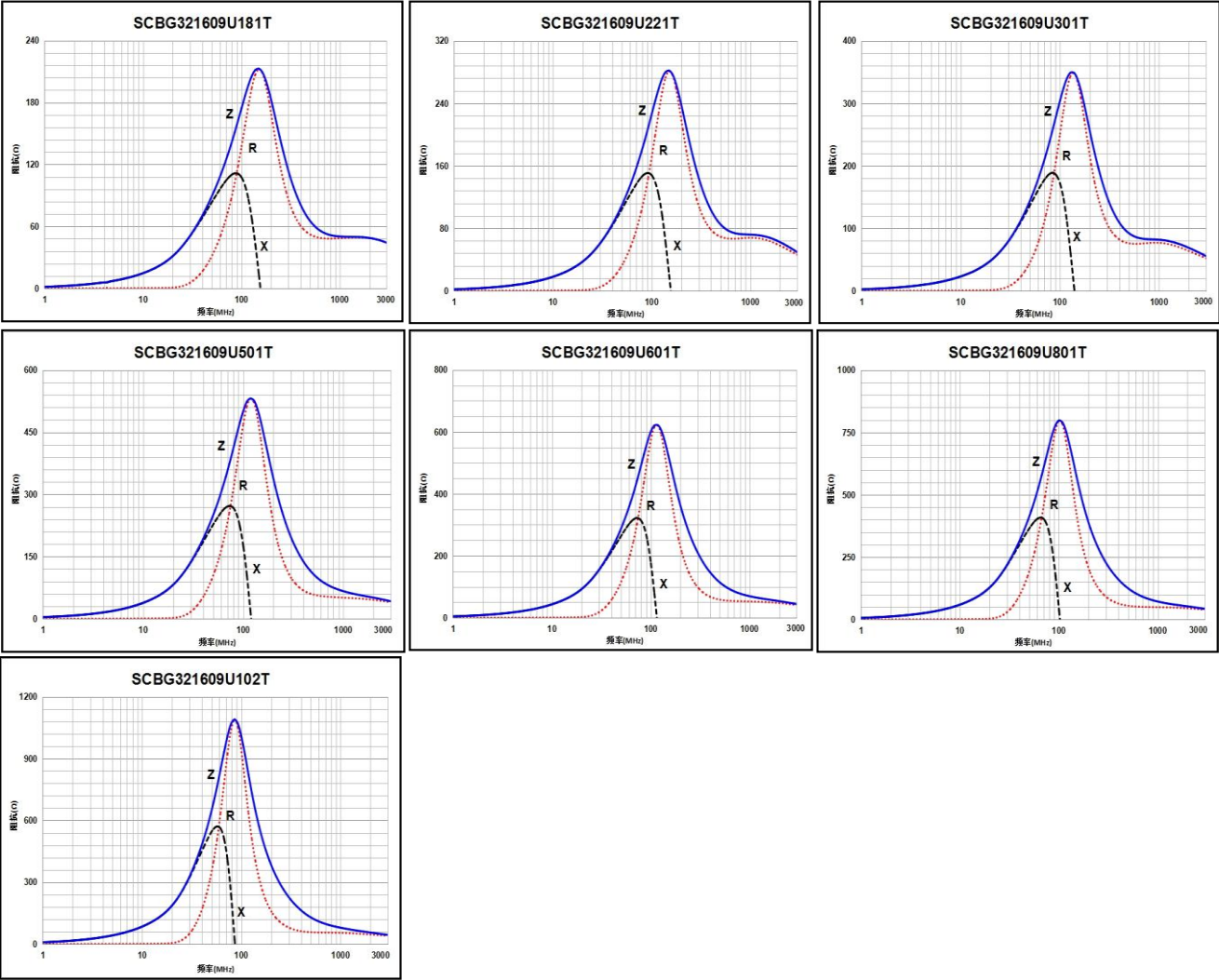
SCBG321609 Series



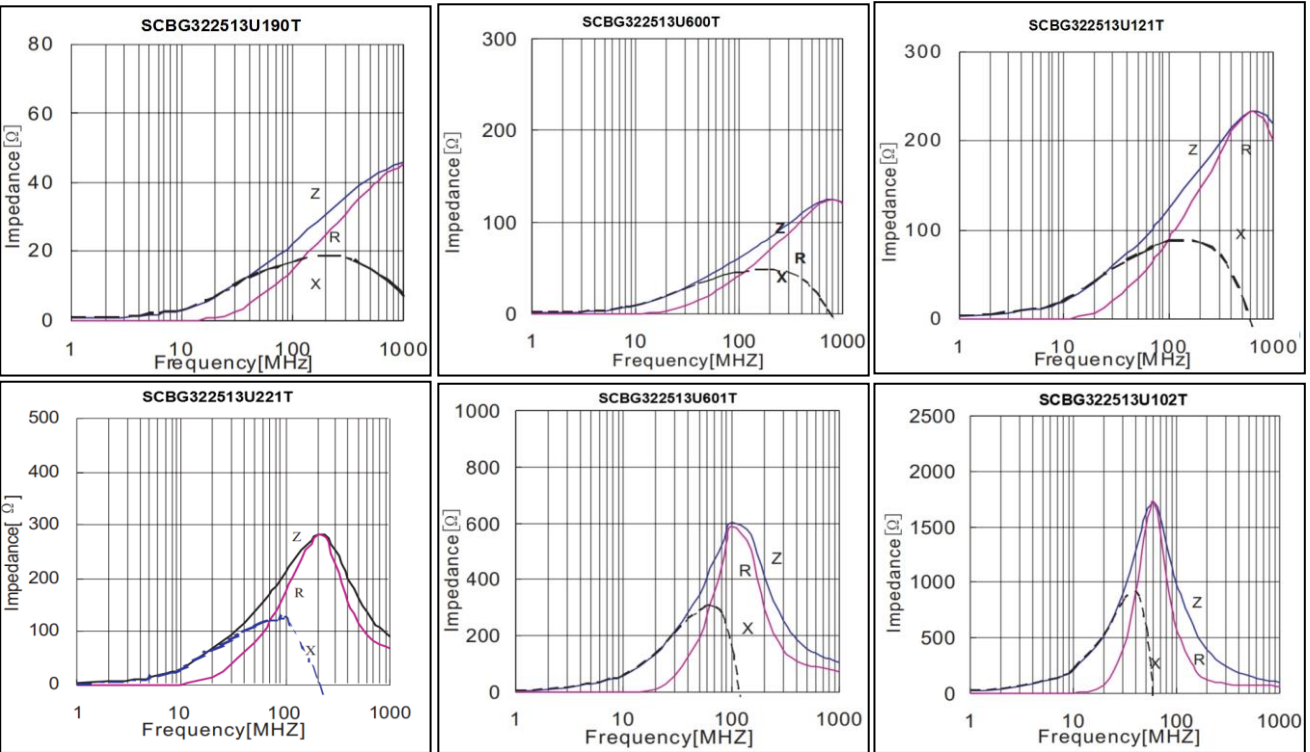


Impedance Frequency Characteristics 阻抗频率性能

SCBG321609 Series



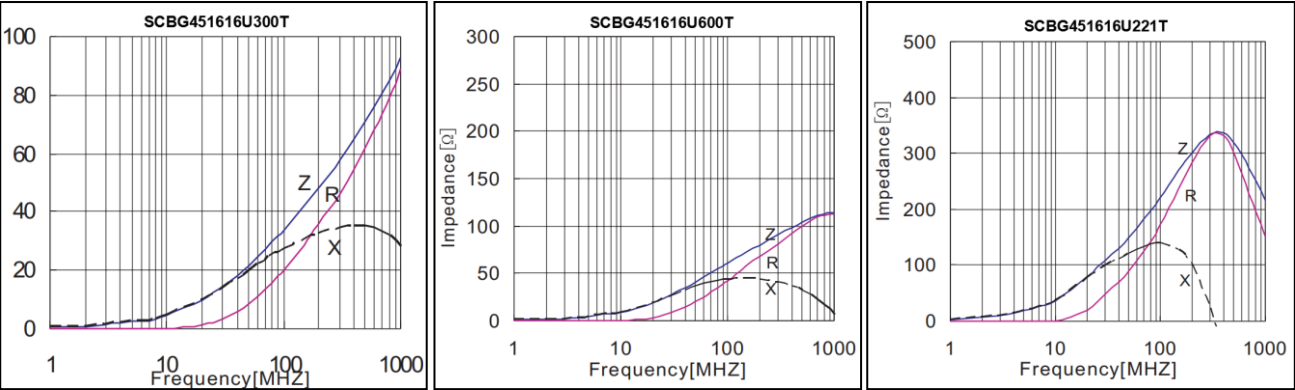
SCBG322513 Series



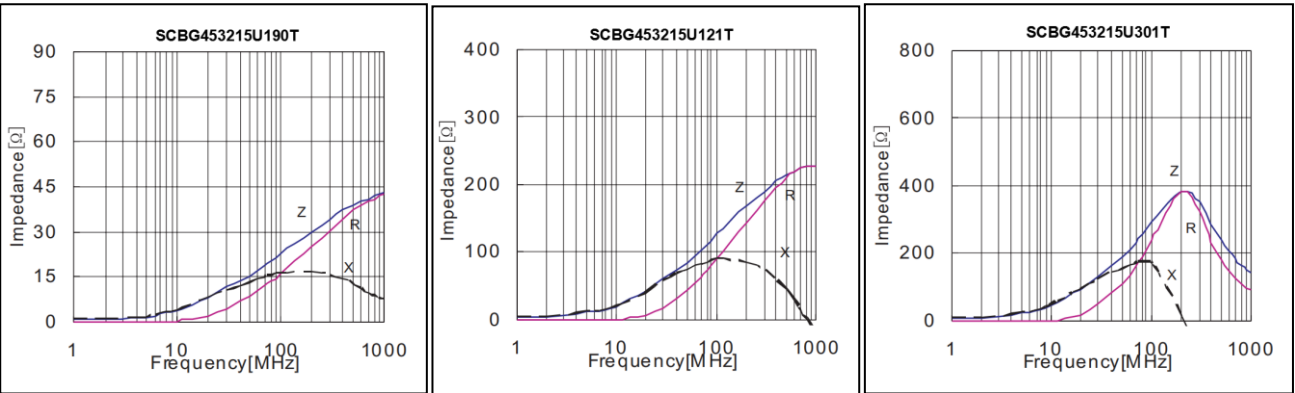


Impedance Frequency Characteristics 阻抗频率性能

SCBG451616 Series



SCBG453215 Series





## Multilayer Chip Sharp Bead SCBY Series 叠层片式尖峰磁珠 SCBY 系列

### Features 特点

- Multilayer monolithic construction yields high reliability  
独石结构、高可靠性
- Has sharp impedance characteristics at desirable frequency 在指定的频段具有高阻抗
- Substantial EMI suppression over a wide frequency range 在宽频段有显著的抑制噪声效果
- Does not affect the signal frequency  
对信号频段无影响



### Applications 应用

- Computers and peripherals 电脑及外设
- Digital cameras, TV set 数字电视, 数码相机
- Communication equipment 通讯设备

### Product Identification 产品标识

SCBY 201209 A 121 T

① ② ③ ④ ⑤

① Series name 系列名称

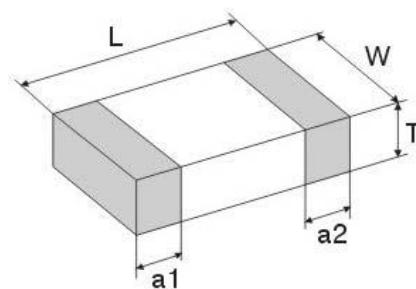
② Dimension 产品尺寸L×W×T: 【201209: 2.0mm×1.2 mm×0.9mm】

③ Material code 材料代码

④ Impedance 阻抗: 【100=10Ω 121=120Ω 102=1000Ω】

⑤ Packing Style: 【 T: Taping 编带盘装 B: Bulk 散装】

### Shapes And Dimensions 外形及尺寸示意图



| Type          | Dimensions (mm) [inch]  |                         |                         |                         |
|---------------|-------------------------|-------------------------|-------------------------|-------------------------|
|               | L                       | W                       | T                       | a1, a2                  |
| 100505 [0402] | 1.00±0.15 [0.04±0.006]  | 0.50±0.15 [0.02±0.006]  | 0.50±0.15 [0.02±0.006]  | 0.25±0.10 [0.01±0.004]  |
| 160808 [0603] | 1.60±0.20 [0.063±0.008] | 0.80±0.20 [0.031±0.008] | 0.80±0.20 [0.031±0.008] | 0.30±0.20 [0.012±0.008] |
| 201209 [0805] | 2.00±0.20 [0.079±0.008] | 1.20±0.20 [0.049±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |
| 321609 [1206] | 3.20±0.20 [0.126±0.008] | 1.60±0.20 [0.063±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |

**Electrical Characteristics 电气性能**

## SCBY100505 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBY100505A000T | 0~15                   | 100                   | 0.10                    | 300            |
| SCBY100505A050T | 0~15                   | 100                   | 0.10                    | 300            |
| SCBY100505A070T | 0~11                   | 100                   | 0.10                    | 300            |
| SCBY100505A090T | 5~13                   | 100                   | 0.10                    | 300            |
| SCBY100505A110T | 7~15                   | 100                   | 0.10                    | 300            |
| SCBY100505A150T | 9~21                   | 100                   | 0.10                    | 300            |
| SCBY100505A190T | 12~25                  | 100                   | 0.10                    | 300            |
| SCBY100505A310T | 31 $\pm$ 25%           | 100                   | 0.20                    | 300            |
| SCBY100505A600T | 60 $\pm$ 25%           | 100                   | 0.35                    | 200            |
| SCBY100505A800T | 80 $\pm$ 25%           | 100                   | 0.40                    | 200            |
| SCBY100505A121T | 120 $\pm$ 25%          | 100                   | 0.50                    | 150            |
| SCBY100505A151T | 150 $\pm$ 25%          | 100                   | 0.55                    | 150            |
| SCBY100505A181T | 180 $\pm$ 25%          | 100                   | 0.60                    | 150            |
| SCBY100505A221T | 220 $\pm$ 25%          | 100                   | 0.70                    | 150            |
| SCBY100505A301T | 300 $\pm$ 25%          | 100                   | 0.80                    | 100            |
| SCBY100505A501T | 500 $\pm$ 25%          | 100                   | 1.10                    | 100            |
| SCBY100505A601T | 600 $\pm$ 25%          | 100                   | 1.30                    | 100            |

## SCBY160808 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBY160808A000T | 0~15                   | 100                   | 0.10                    | 600            |
| SCBY160808A050T | 0~15                   | 100                   | 0.10                    | 600            |
| SCBY160808A070T | 0~11                   | 100                   | 0.10                    | 600            |
| SCBY160808A090T | 5~13                   | 100                   | 0.10                    | 500            |
| SCBY160808A110T | 7~15                   | 100                   | 0.20                    | 500            |
| SCBY160808A150T | 9~21                   | 100                   | 0.20                    | 500            |
| SCBY160808A190T | 12~25                  | 100                   | 0.20                    | 500            |
| SCBY160808A310T | 31 $\pm$ 25%           | 100                   | 0.25                    | 400            |
| SCBY160808A600T | 60 $\pm$ 25%           | 100                   | 0.30                    | 300            |
| SCBY160808A800T | 80 $\pm$ 25%           | 100                   | 0.30                    | 300            |

**Electrical Characteristics 电气性能**

## SCBY160808 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBY160808A121T | 120 $\pm$ 25%          | 100                   | 0.35                    | 200            |
| SCBY160808A151T | 150 $\pm$ 25%          | 100                   | 0.35                    | 200            |
| SCBY160808A221T | 220 $\pm$ 25%          | 100                   | 0.40                    | 200            |
| SCBY160808A301T | 300 $\pm$ 25%          | 100                   | 0.50                    | 200            |
| SCBY160808A501T | 500 $\pm$ 25%          | 100                   | 0.60                    | 200            |
| SCBY160808A601T | 600 $\pm$ 25%          | 100                   | 0.70                    | 200            |

## SCBY201209 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBY201209A000T | 0~15                   | 100                   | 0.15                    | 600            |
| SCBY201209A050T | 0~15                   | 100                   | 0.15                    | 600            |
| SCBY201209A070T | 0~11                   | 100                   | 0.15                    | 600            |
| SCBY201209A090T | 5~13                   | 100                   | 0.15                    | 600            |
| SCBY201209A110T | 7~15                   | 100                   | 0.15                    | 600            |
| SCBY201209A150T | 9~21                   | 100                   | 0.15                    | 600            |
| SCBY201209A190T | 12~25                  | 100                   | 0.15                    | 600            |
| SCBY201209A260T | 26 $\pm$ 25%           | 100                   | 0.20                    | 600            |
| SCBY201209A310T | 31 $\pm$ 25%           | 100                   | 0.20                    | 600            |
| SCBY201209A700T | 70 $\pm$ 25%           | 100                   | 0.25                    | 600            |
| SCBY201209A800T | 80 $\pm$ 25%           | 100                   | 0.25                    | 600            |
| SCBY201209A121T | 120 $\pm$ 25%          | 100                   | 0.25                    | 600            |
| SCBY201209A151T | 150 $\pm$ 25%          | 100                   | 0.25                    | 600            |
| SCBY201209A221T | 220 $\pm$ 25%          | 100                   | 0.30                    | 600            |
| SCBY201209A301T | 300 $\pm$ 25%          | 100                   | 0.30                    | 600            |
| SCBY201209A501T | 500 $\pm$ 25%          | 100                   | 0.35                    | 400            |
| SCBY201209A601T | 600 $\pm$ 25%          | 100                   | 0.40                    | 400            |

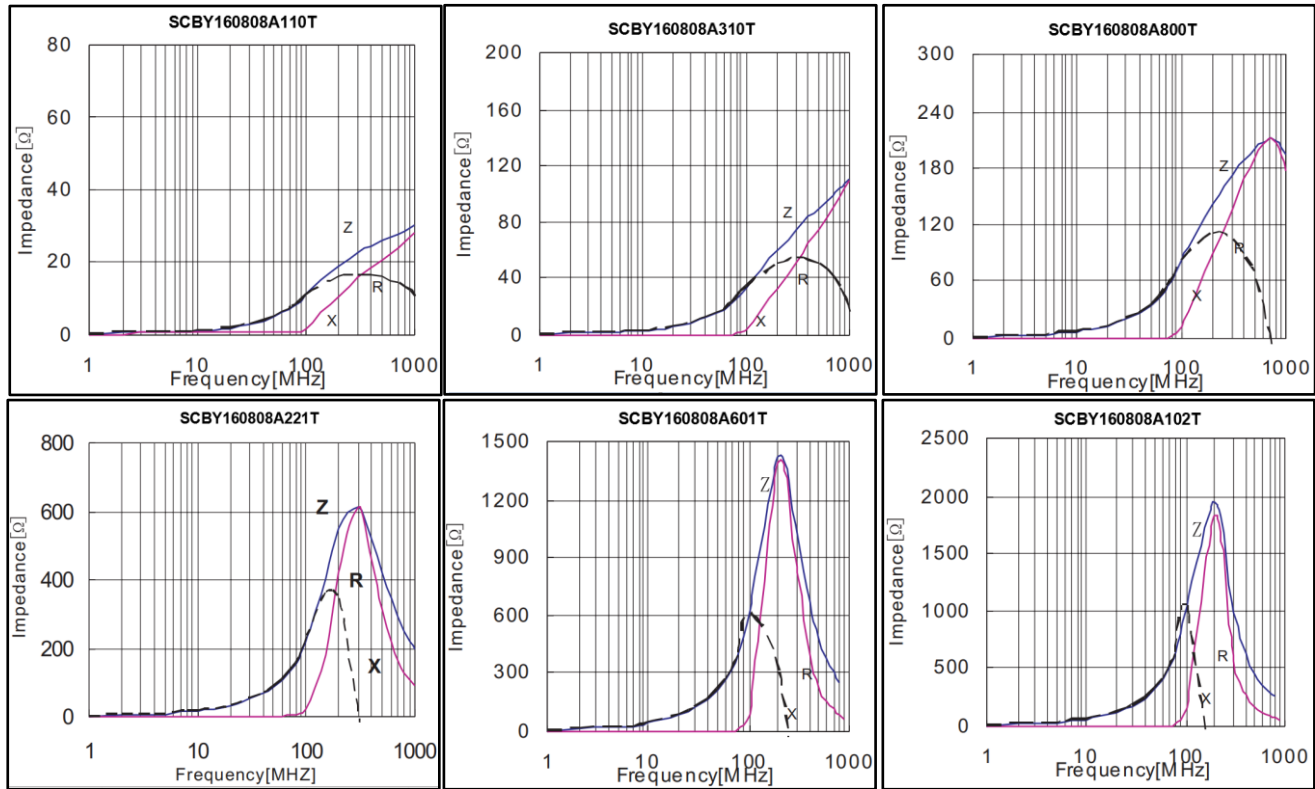
**Electrical Characteristics 电气性能**

## SCBY321609 Series

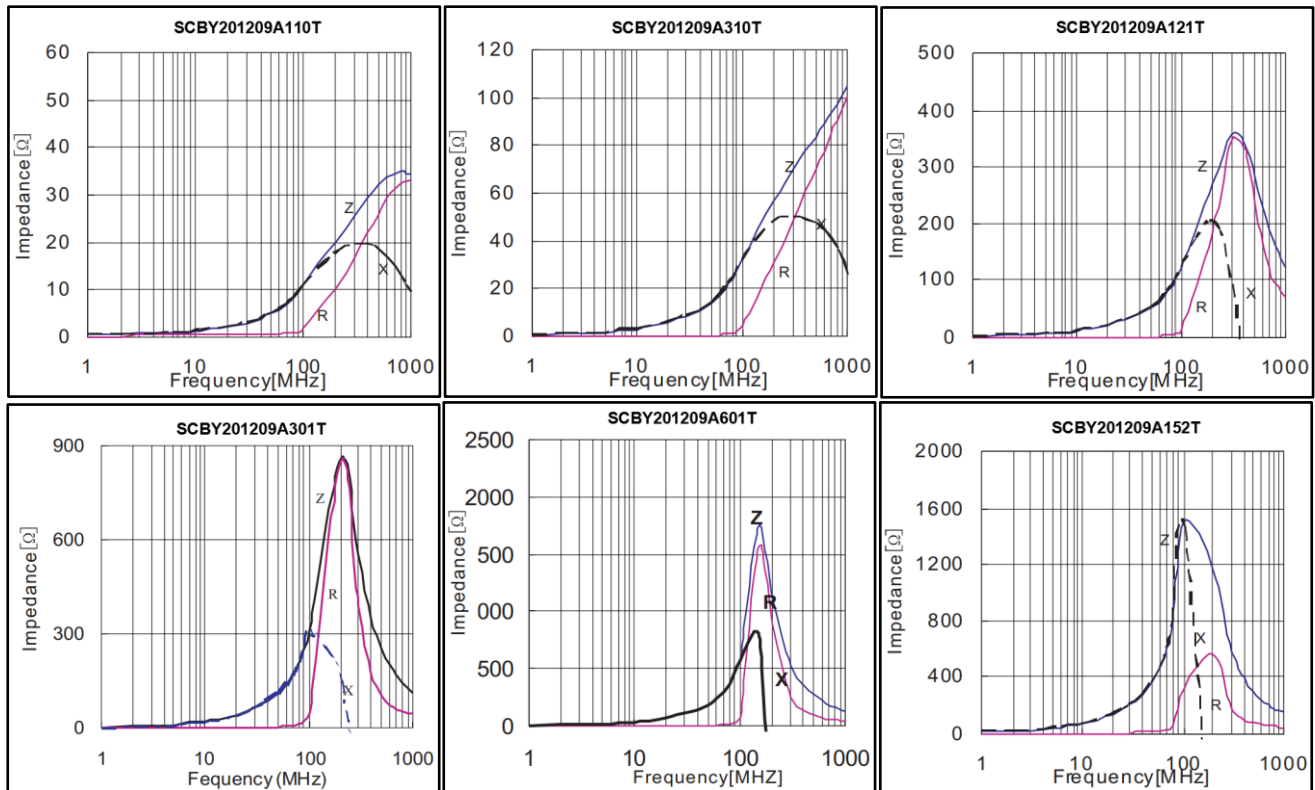
| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBY321609A000T | 0~15                   | 100                   | 0.10                    | 500            |
| SCBY321609A050T | 0~15                   | 100                   | 0.10                    | 500            |
| SCBY321609A070T | 0~11                   | 100                   | 0.10                    | 500            |
| SCBY321609A090T | 5~13                   | 100                   | 0.10                    | 500            |
| SCBY321609A110T | 7~15                   | 100                   | 0.10                    | 500            |
| SCBY321609A150T | 9~21                   | 100                   | 0.10                    | 500            |
| SCBY321609A190T | 12~25                  | 100                   | 0.10                    | 500            |
| SCBY321609A260T | 26 $\pm$ 25%           | 100                   | 0.10                    | 500            |
| SCBY321609A310T | 31 $\pm$ 25%           | 100                   | 0.10                    | 500            |
| SCBY321609A600T | 60 $\pm$ 25%           | 100                   | 0.20                    | 400            |
| SCBY321609A700T | 70 $\pm$ 25%           | 100                   | 0.20                    | 400            |
| SCBY321609A800T | 80 $\pm$ 25%           | 100                   | 0.20                    | 400            |
| SCBY321609A900T | 90 $\pm$ 25%           | 100                   | 0.20                    | 400            |
| SCBY321609A121T | 120 $\pm$ 25%          | 100                   | 0.20                    | 400            |
| SCBY321609A151T | 150 $\pm$ 25%          | 100                   | 0.20                    | 400            |
| SCBY321609A221T | 220 $\pm$ 25%          | 100                   | 0.20                    | 400            |
| SCBY321609A301T | 300 $\pm$ 25%          | 100                   | 0.25                    | 400            |
| SCBY321609A501T | 500 $\pm$ 25%          | 100                   | 0.30                    | 300            |
| SCBY321609A601T | 600 $\pm$ 25%          | 100                   | 0.30                    | 300            |

**Impedance Frequency Characteristics 阻抗频率性能**

## SCBY160808 Series



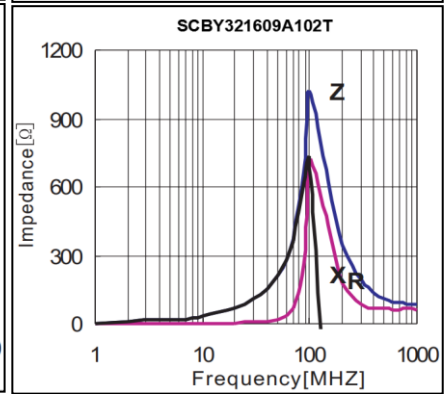
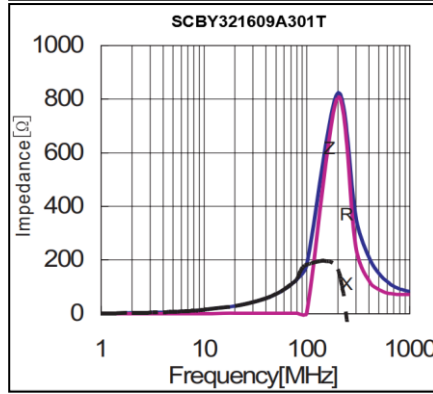
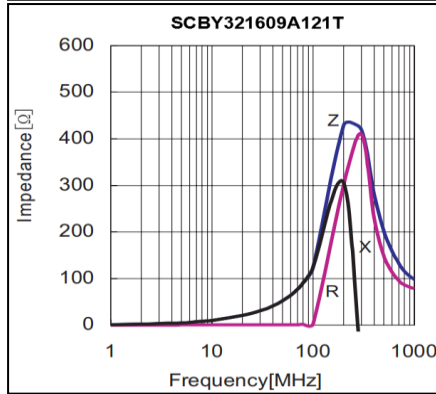
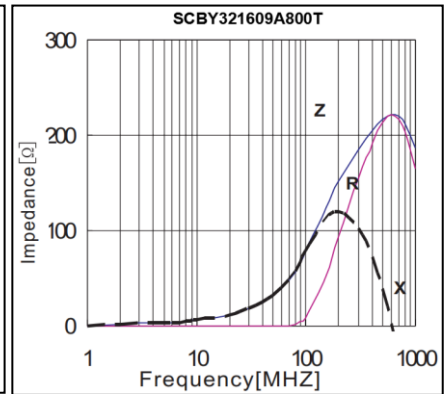
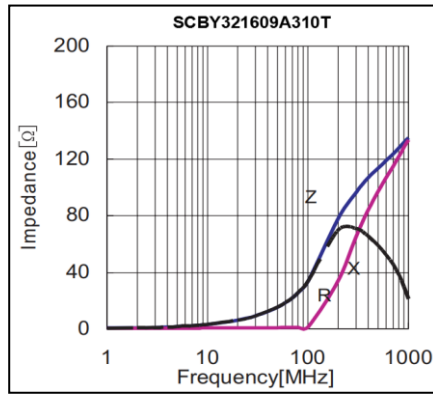
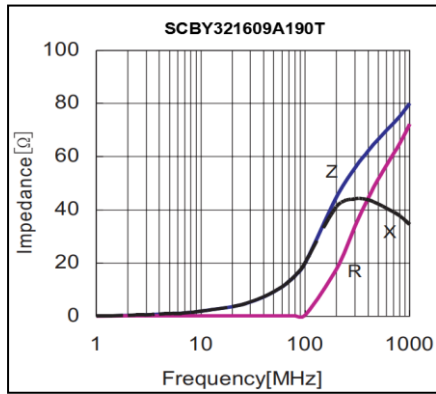
## SCBY201209 Series





## Impedance Frequency Characteristics 阻抗频率性能

SCBY321609 Series





## Multilayer Chip High Frequency Bead SCBH Series 叠层片式高频磁珠 SCBH 系列

### Features 特点

- Multilayer monolithic construction yields high reliability  
独石结构、高可靠性
- High frequency noise countermeasure  
对高频噪声有显著抑制
- Suitable for ultra high speed circuit  
应用于超高频电路



### Applications 应用

- Computers, mobile communication system products 电脑, 移动通讯系统
- Noise suppressing in ultra high speed circuit 超高速电路的噪声控制

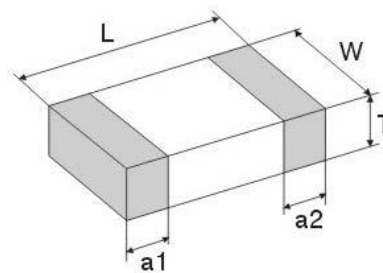
### Product Identification 产品标识

SCBH 321609 W 121 T

① ② ③ ④ ⑤

- ① Series name 系列名称
- ② Dimension 产品尺寸 L×W×T: 【321609: 3.2mm×1.6mm×0.9mm】
- ③ Material code 材料代码
- ④ Impedance阻抗: 【100=10Ω 121=120Ω 102=1000Ω】
- ⑤ Packing Style: 【T: Taping 编带盘装 B: Bulk 散装】

### Shapes And Dimensions 外形及尺寸示意图



| Type          | Dimensions (mm) [inch]  |                         |                         |                         |
|---------------|-------------------------|-------------------------|-------------------------|-------------------------|
|               | L                       | W                       | T                       | a1, a2                  |
| 100505 [0402] | 1.00±0.15 [0.04±0.006]  | 0.50±0.15 [0.02±0.006]  | 0.50±0.15 [0.02±0.006]  | 0.25±0.10 [0.01±0.004]  |
| 160808 [0603] | 1.60±0.20 [0.063±0.008] | 0.80±0.20 [0.031±0.008] | 0.80±0.20 [0.031±0.008] | 0.30±0.20 [0.012±0.008] |
| 201209 [0805] | 2.00±0.20 [0.079±0.008] | 1.20±0.20 [0.049±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |
| 321609 [1206] | 3.20±0.20 [0.126±0.008] | 1.60±0.20 [0.063±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |

**Electrical Characteristics 电气性能**

## SCBH100505 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBH100505W310T | 31 $\pm$ 25%           | 100                   | 0.20                    | 300            |
| SCBH100505W600T | 60 $\pm$ 25%           | 100                   | 0.35                    | 200            |
| SCBH100505W800T | 80 $\pm$ 25%           | 100                   | 0.40                    | 200            |
| SCBH100505W121T | 120 $\pm$ 25%          | 100                   | 0.50                    | 150            |
| SCBH100505W181T | 180 $\pm$ 25%          | 100                   | 0.60                    | 150            |
| SCBH100505W301T | 300 $\pm$ 25%          | 100                   | 0.80                    | 100            |
| SCBH100505W501T | 500 $\pm$ 25%          | 100                   | 1.1                     | 100            |
| SCBH100505W601T | 600 $\pm$ 25%          | 100                   | 1.3                     | 100            |

## SCBH160808 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBH160808W000T | 0~15                   | 100                   | 0.15                    | 600            |
| SCBH160808W050T | 0~15                   | 100                   | 0.15                    | 600            |
| SCBH160808W070T | 0~11                   | 100                   | 0.15                    | 600            |
| SCBH160808W090T | 5~13                   | 100                   | 0.15                    | 500            |
| SCBH160808W110T | 7~15                   | 100                   | 0.15                    | 500            |
| SCBH160808W150T | 9~21                   | 100                   | 0.15                    | 500            |
| SCBH160808W190T | 12~25                  | 100                   | 0.15                    | 500            |
| SCBH160808W310T | 31 $\pm$ 25%           | 100                   | 0.15                    | 500            |
| SCBH160808W600T | 60 $\pm$ 25%           | 100                   | 0.15                    | 500            |
| SCBH160808W800T | 80 $\pm$ 25%           | 100                   | 0.20                    | 300            |
| SCBH160808W121T | 120 $\pm$ 25%          | 100                   | 0.20                    | 200            |
| SCBH160808W151T | 150 $\pm$ 25%          | 100                   | 0.30                    | 200            |
| SCBH160808W221T | 220 $\pm$ 25%          | 100                   | 0.40                    | 200            |
| SCBH160808W301T | 300 $\pm$ 25%          | 100                   | 0.50                    | 150            |
| SCBH160808W501T | 500 $\pm$ 25%          | 100                   | 0.60                    | 100            |
| SCBH160808W601T | 600 $\pm$ 25%          | 100                   | 0.60                    | 100            |
| SCBH160808W801T | 800 $\pm$ 25%          | 100                   | 0.70                    | 100            |
| SCBH160808W102T | 1000 $\pm$ 25%         | 100                   | 0.90                    | 100            |
| SCBH160808W122T | 1200 $\pm$ 25%         | 100                   | 0.90                    | 100            |

**Electrical Characteristics 电气性能**

## SCBH201209 Series

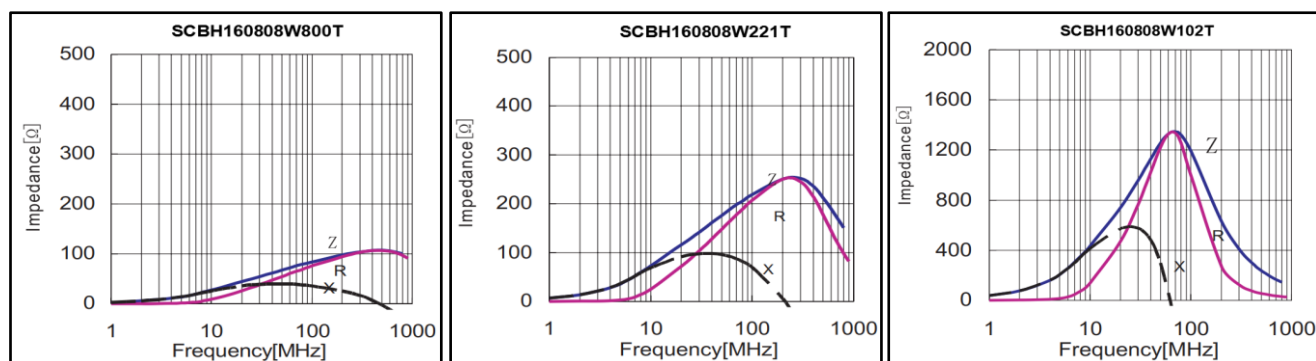
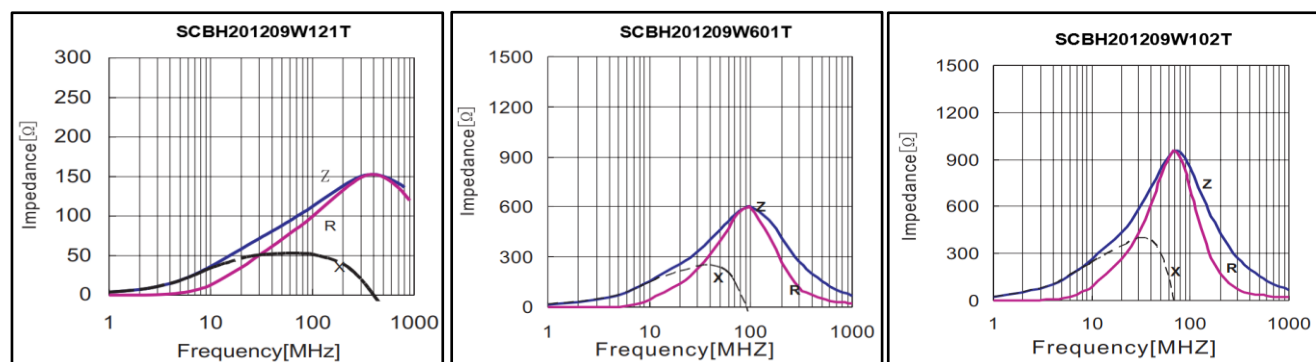
| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBH201209W000T | 0~15                   | 100                   | 0.15                    | 1000           |
| SCBH201209W050T | 0~15                   | 100                   | 0.15                    | 1000           |
| SCBH201209W070T | 0~11                   | 100                   | 0.15                    | 1000           |
| SCBH201209W090T | 5~13                   | 100                   | 0.15                    | 1000           |
| SCBH201209W110T | 7~15                   | 100                   | 0.15                    | 1000           |
| SCBH201209W150T | 9~21                   | 100                   | 0.15                    | 1000           |
| SCBH201209W190T | 12~25                  | 100                   | 0.15                    | 1000           |
| SCBH201209W260T | 26 $\pm$ 25%           | 100                   | 0.15                    | 1000           |
| SCBH201209W310T | 31 $\pm$ 25%           | 100                   | 0.15                    | 1000           |
| SCBH201209W700T | 70 $\pm$ 25%           | 100                   | 0.25                    | 400            |
| SCBH201209W800T | 80 $\pm$ 25%           | 100                   | 0.25                    | 400            |
| SCBH201209W121T | 120 $\pm$ 25%          | 100                   | 0.25                    | 400            |
| SCBH201209W151T | 150 $\pm$ 25%          | 100                   | 0.25                    | 400            |
| SCBH201209W221T | 220 $\pm$ 25%          | 100                   | 0.30                    | 400            |
| SCBH201209W301T | 300 $\pm$ 25%          | 100                   | 0.35                    | 400            |
| SCBH201209W501T | 500 $\pm$ 25%          | 100                   | 0.40                    | 200            |
| SCBH201209W601T | 600 $\pm$ 25%          | 100                   | 0.45                    | 200            |
| SCBH201209W801T | 800 $\pm$ 25%          | 100                   | 0.50                    | 180            |
| SCBH201209W102T | 1000 $\pm$ 25%         | 100                   | 0.60                    | 180            |
| SCBH201209W122T | 1200 $\pm$ 25%         | 100                   | 0.60                    | 100            |

## SCBH321609 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBH321609W000T | 0~15                   | 100                   | 0.10                    | 1000           |
| SCBH321609W050T | 0~15                   | 100                   | 0.10                    | 1000           |
| SCBH321609W070T | 0~11                   | 100                   | 0.10                    | 1000           |
| SCBH321609W090T | 5~13                   | 100                   | 0.10                    | 1000           |
| SCBH321609W110T | 7~15                   | 100                   | 0.10                    | 1000           |
| SCBH321609W150T | 9~21                   | 100                   | 0.10                    | 1000           |
| SCBH321609W190T | 12~25                  | 100                   | 0.10                    | 1000           |
| SCBH321609W260T | 26 $\pm$ 25%           | 100                   | 0.10                    | 1000           |
| SCBH321609W310T | 31 $\pm$ 25%           | 100                   | 0.10                    | 1000           |
| SCBH321609W600T | 60 $\pm$ 25%           | 100                   | 0.15                    | 1000           |
| SCBH321609W700T | 70 $\pm$ 25%           | 100                   | 0.15                    | 1000           |
| SCBH321609W800T | 80 $\pm$ 25%           | 100                   | 0.15                    | 1000           |

**Electrical Characteristics 电气性能****SCBH321609 Series**

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | I <sub>r</sub> (mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|-----------------------------|
| SCBH321609W900T | 90 $\pm$ 25%           | 100                   | 0.15                    | 1000                        |
| SCBH321609W121T | 120 $\pm$ 25%          | 100                   | 0.20                    | 1000                        |
| SCBH321609W151T | 150 $\pm$ 25%          | 100                   | 0.25                    | 300                         |
| SCBH321609W221T | 220 $\pm$ 25%          | 100                   | 0.25                    | 300                         |
| SCBH321609W301T | 300 $\pm$ 25%          | 100                   | 0.25                    | 300                         |
| SCBH321609W501T | 500 $\pm$ 25%          | 100                   | 0.30                    | 200                         |
| SCBH321609W601T | 600 $\pm$ 25%          | 100                   | 0.35                    | 200                         |
| SCBH321609W801T | 800 $\pm$ 25%          | 100                   | 0.50                    | 200                         |

**Impedance Frequency Characteristics 阻抗频率性能****SCBH160808 Series****SCBH201209 Series**

**Multilayer Chip Large Current Bead SCBW Series 叠层片式大电流磁珠 SCBW 系列****Features 特点**

- Multilayer monolithic construction yields high reliability

独石结构、高可靠性

- A unique terminal electrode structure ensures high permissible current, 6A max.

特别的设计可承受最大 6A 的电流

- High impedance over a wide frequency range

在较宽的频段具有高阻抗

**Applications 应用**

- Video equipment, audio equipment 视频音频设备
- Automotive electrical equipment 电气自动化设备
- Communication equipment 通讯设备
- OA equipment and other OA 设备及其它领域

**Product Identification 产品标识**

SCBW 201209 U 121 T

① ② ③ ④ ⑤

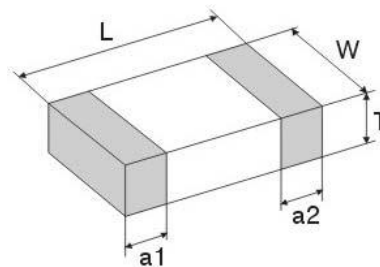
① Series name 系列名称

② Dimension 产品尺寸 L×W×T: 【201209: 2.0mm×1.2 mm×0.9mm】

③ Material code 材料代码

④ Impedance 阻抗: 【100=10Ω 101=100Ω 102=1000Ω】

⑤ Packing Style: 【 T: Taping 编带盘装B: Bulk 散装】

**Shapes And Dimensions 外形及尺寸示意图**

| Type          | Dimensions (mm) [inch]  |                         |                         |                         |
|---------------|-------------------------|-------------------------|-------------------------|-------------------------|
|               | L                       | W                       | T                       | a1, a2                  |
| 100505 [0402] | 1.00±0.15 [0.04±0.006]  | 0.50±0.15 [0.02±0.006]  | 0.50±0.15 [0.02±0.006]  | 0.25±0.10 [0.01±0.004]  |
| 160808 [0603] | 1.60±0.20 [0.063±0.008] | 0.80±0.20 [0.031±0.008] | 0.80±0.20 [0.031±0.008] | 0.30±0.20 [0.012±0.008] |
| 201209 [0805] | 2.00±0.20 [0.079±0.008] | 1.20±0.20 [0.049±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |
| 321609 [1206] | 3.20±0.20 [0.126±0.008] | 1.60±0.20 [0.063±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |
| 322513 [1210] | 3.20±0.20 [0.126±0.008] | 2.50±0.20 [0.098±0.008] | 1.30±0.20 [0.051±0.008] | 0.50±0.30 [0.02±0.012]  |
| 451616 [1806] | 4.50±0.20 [0.180±0.008] | 1.60±0.20 [0.063±0.008] | 1.60±0.20 [0.063±0.008] | 0.50±0.30 [0.02±0.012]  |
| 453215 [1812] | 4.50±0.20 [0.180±0.008] | 3.20±0.20 [0.126±0.008] | 1.50±0.20 [0.06±0.008]  | 0.50±0.30 [0.02±0.012]  |

**Electrical Characteristics 电气性能**

## SCBW100505 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBW100505U000T | 0~15                   | 100                   | 0.04                    | 800            |
| SCBW100505U050T | 0~15                   | 100                   | 0.04                    | 800            |
| SCBW100505U070T | 0~11                   | 100                   | 0.04                    | 800            |
| SCBW100505U090T | 5~13                   | 100                   | 0.04                    | 800            |
| SCBW100505U110T | 7~15                   | 100                   | 0.04                    | 800            |
| SCBW100505U150T | 9~21                   | 100                   | 0.04                    | 800            |
| SCBW100505U190T | 12~25                  | 100                   | 0.06                    | 700            |
| SCBW100505U260T | 26 $\pm$ 25%           | 100                   | 0.06                    | 700            |
| SCBW100505U310T | 31 $\pm$ 25%           | 100                   | 0.08                    | 700            |
| SCBW100505U360T | 36 $\pm$ 25%           | 100                   | 0.15                    | 600            |
| SCBW100505U600T | 60 $\pm$ 25%           | 100                   | 0.15                    | 600            |
| SCBW100505U800T | 80 $\pm$ 25%           | 100                   | 0.20                    | 450            |
| SCBW100505U121T | 120 $\pm$ 25%          | 100                   | 0.25                    | 450            |
| SCBW100505U151T | 150 $\pm$ 25%          | 100                   | 0.25                    | 450            |
| SCBW100505U181T | 180 $\pm$ 25%          | 100                   | 0.40                    | 300            |
| SCBW100505U221T | 220 $\pm$ 25%          | 100                   | 0.40                    | 300            |
| SCBW100505U301T | 300 $\pm$ 25%          | 100                   | 0.50                    | 300            |
| SCBW100505U501T | 500 $\pm$ 25%          | 100                   | 0.65                    | 200            |
| SCBW100505U601T | 600 $\pm$ 25%          | 100                   | 0.70                    | 200            |
| SCBW100505U801T | 800 $\pm$ 25%          | 100                   | 0.90                    | 200            |
| SCBW100505U102T | 1000 $\pm$ 25%         | 100                   | 1.00                    | 200            |

## SCBW160808 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBW160808U000T | 0~15                   | 100                   | 0.08                    | 1000           |
| SCBW160808U050T | 0~15                   | 100                   | 0.08                    | 1000           |
| SCBW160808U070T | 0~11                   | 100                   | 0.08                    | 1000           |
| SCBW160808U090T | 5~13                   | 100                   | 0.08                    | 1000           |
| SCBW160808U110T | 7~15                   | 100                   | 0.08                    | 1000           |
| SCBW160808U150T | 9~21                   | 100                   | 0.08                    | 1000           |
| SCBW160808U190T | 12~25                  | 100                   | 0.08                    | 1000           |
| SCBW160808U260T | 26 $\pm$ 25%           | 100                   | 0.08                    | 1000           |
| SCBW160808U300T | 30 $\pm$ 25%           | 100                   | 0.08                    | 1000           |
| SCBW160808U310T | 31 $\pm$ 25%           | 100                   | 0.08                    | 1000           |
| SCBW160808U600T | 60 $\pm$ 25%           | 100                   | 0.12                    | 1000           |
| SCBW160808U800T | 80 $\pm$ 25%           | 100                   | 0.20                    | 1000           |
| SCBW160808U101T | 100 $\pm$ 25%          | 100                   | 0.20                    | 1000           |
| SCBW160808U121T | 120 $\pm$ 25%          | 100                   | 0.20                    | 1000           |

**Electrical Characteristics 电气性能**

SCBW160808 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | I <sub>r</sub> (mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|-----------------------------|
| SCBW160808U151T | 150 $\pm$ 25%          | 100                   | 0.25                    | 1000                        |
| SCBW160808U181T | 180 $\pm$ 25%          | 100                   | 0.25                    | 1000                        |
| SCBW160808U221T | 220 $\pm$ 25%          | 100                   | 0.30                    | 1000                        |
| SCBW160808U301T | 300 $\pm$ 25%          | 100                   | 0.30                    | 1000                        |
| SCBW160808U501T | 500 $\pm$ 25%          | 100                   | 0.40                    | 1000                        |
| SCBW160808U601T | 600 $\pm$ 25%          | 100                   | 0.40                    | 1000                        |
| SCBW160808U801T | 800 $\pm$ 25%          | 100                   | 0.55                    | 500                         |
| SCBW160808U102T | 1000 $\pm$ 25%         | 100                   | 0.55                    | 500                         |
| SCBW160808U122T | 1200 $\pm$ 25%         | 100                   | 0.65                    | 500                         |
| SCBW160808U152T | 1500 $\pm$ 25%         | 100                   | 0.75                    | 400                         |
| SCBW160808U182T | 1800 $\pm$ 25%         | 100                   | 0.75                    | 400                         |
| SCBW160808U202T | 2000 $\pm$ 25%         | 100                   | 0.90                    | 400                         |

SCBW201209 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | I <sub>r</sub> (mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|-----------------------------|
| SCBW201209U000T | 0~15                   | 100                   | 0.03                    | 3000                        |
| SCBW201209U050T | 0~15                   | 100                   | 0.03                    | 3000                        |
| SCBW201209U070T | 0~11                   | 100                   | 0.03                    | 3000                        |
| SCBW201209U090T | 5~13                   | 100                   | 0.03                    | 3000                        |
| SCBW201209U110T | 7~15                   | 100                   | 0.03                    | 3000                        |
| SCBW201209U150T | 9~21                   | 100                   | 0.03                    | 3000                        |
| SCBW201209U190T | 12~25                  | 100                   | 0.03                    | 3000                        |
| SCBW201209U300T | 30 $\pm$ 25%           | 100                   | 0.05                    | 3000                        |
| SCBW201209U310T | 31 $\pm$ 25%           | 100                   | 0.05                    | 3000                        |
| SCBW201209U360T | 36 $\pm$ 25%           | 100                   | 0.06                    | 3000                        |
| SCBW201209U600T | 60 $\pm$ 25%           | 100                   | 0.06                    | 3000                        |
| SCBW201209U800T | 80 $\pm$ 25%           | 100                   | 0.08                    | 2500                        |
| SCBW201209U101T | 100 $\pm$ 25%          | 100                   | 0.10                    | 2500                        |
| SCBW201209U121T | 120 $\pm$ 25%          | 100                   | 0.10                    | 2000                        |
| SCBW201209U151T | 150 $\pm$ 25%          | 100                   | 0.10                    | 2000                        |
| SCBW201209U181T | 180 $\pm$ 25%          | 100                   | 0.15                    | 2000                        |
| SCBW201209U201T | 200 $\pm$ 25%          | 100                   | 0.15                    | 2000                        |
| SCBW201209U221T | 220 $\pm$ 25%          | 100                   | 0.15                    | 2000                        |
| SCBW201209U301T | 300 $\pm$ 25%          | 100                   | 0.20                    | 2000                        |
| SCBW201209U501T | 500 $\pm$ 25%          | 100                   | 0.25                    | 1500                        |
| SCBW201209U601T | 600 $\pm$ 25%          | 100                   | 0.25                    | 1500                        |
| SCBW201209U801T | 800 $\pm$ 25%          | 100                   | 0.30                    | 800                         |
| SCBW201209U102T | 1000 $\pm$ 25%         | 100                   | 0.30                    | 800                         |
| SCBW201209U122T | 1200 $\pm$ 25%         | 100                   | 0.45                    | 500                         |
| SCBW201209U252T | 2500 $\pm$ 25%         | 50                    | 0.60                    | 100                         |

**Electrical Characteristics 电气性能**

## SCBW321609 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBW321609U000T | 0~15                   | 100                   | 0.04                    | 4000           |
| SCBW321609U050T | 0~15                   | 100                   | 0.04                    | 4000           |
| SCBW321609U070T | 0~11                   | 100                   | 0.04                    | 4000           |
| SCBW321609U090T | 5~13                   | 100                   | 0.05                    | 4000           |
| SCBW321609U110T | 7~15                   | 100                   | 0.05                    | 4000           |
| SCBW321609U150T | 9~21                   | 100                   | 0.05                    | 3000           |
| SCBW321609U190T | 12~25                  | 100                   | 0.05                    | 3000           |
| SCBW321609U260T | 26 $\pm$ 25%           | 100                   | 0.05                    | 3000           |
| SCBW321609U280T | 28 $\pm$ 25%           | 100                   | 0.05                    | 3000           |
| SCBW321609U300T | 30 $\pm$ 25%           | 100                   | 0.07                    | 3000           |
| SCBW321609U310T | 31 $\pm$ 25%           | 100                   | 0.08                    | 3000           |
| SCBW321609U500T | 50 $\pm$ 25%           | 100                   | 0.10                    | 3000           |
| SCBW321609U600T | 60 $\pm$ 25%           | 100                   | 0.10                    | 3000           |
| SCBW321609U700T | 70 $\pm$ 25%           | 100                   | 0.10                    | 3000           |
| SCBW321609U800T | 80 $\pm$ 25%           | 100                   | 0.10                    | 3000           |
| SCBW321609U101T | 100 $\pm$ 25%          | 100                   | 0.10                    | 3000           |
| SCBW321609U121T | 120 $\pm$ 25%          | 100                   | 0.10                    | 3000           |
| SCBW321609U151T | 150 $\pm$ 25%          | 100                   | 0.15                    | 2500           |
| SCBW321609U181T | 180 $\pm$ 25%          | 100                   | 0.20                    | 2500           |
| SCBW321609U221T | 220 $\pm$ 25%          | 100                   | 0.20                    | 2500           |
| SCBW321609U301T | 300 $\pm$ 25%          | 100                   | 0.20                    | 2000           |
| SCBW321609U501T | 500 $\pm$ 25%          | 100                   | 0.20                    | 2000           |
| SCBW321609U601T | 600 $\pm$ 25%          | 100                   | 0.25                    | 2000           |
| SCBW321609U801T | 800 $\pm$ 25%          | 100                   | 0.25                    | 2000           |
| SCBW321609U102T | 1000 $\pm$ 25%         | 100                   | 0.30                    | 2000           |
| SCBW321609U122T | 1200 $\pm$ 25%         | 100                   | 0.35                    | 1000           |
| SCBW321609U152T | 1500 $\pm$ 25%         | 50                    | 0.45                    | 500            |
| SCBW321609U182T | 1800 $\pm$ 25%         | 50                    | 0.60                    | 500            |
| SCBW321609U202T | 2000 $\pm$ 25%         | 50                    | 0.70                    | 300            |

## SCBW322513 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBW322513U110T | 7~15                   | 100                   | 0.05                    | 5000           |
| SCBW322513U190T | 12~25                  | 100                   | 0.05                    | 5000           |
| SCBW322513U260T | 26 $\pm$ 25%           | 100                   | 0.05                    | 5000           |
| SCBW322513U310T | 31 $\pm$ 25%           | 100                   | 0.05                    | 5000           |
| SCBW322513U600T | 60 $\pm$ 25%           | 100                   | 0.06                    | 4000           |
| SCBW322513U700T | 70 $\pm$ 25%           | 100                   | 0.08                    | 3000           |
| SCBW322513U800T | 80 $\pm$ 25%           | 100                   | 0.08                    | 3000           |
| SCBW322513U900T | 90 $\pm$ 25%           | 100                   | 0.08                    | 3000           |
| SCBW322513U121T | 120 $\pm$ 25%          | 100                   | 0.10                    | 3000           |
| SCBW322513U151T | 150 $\pm$ 25%          | 100                   | 0.10                    | 3000           |

**Electrical Characteristics 电气性能**

## SCBW 322513 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBW322513U181T | 180 $\pm$ 25%          | 100                   | 0.15                    | 3000           |
| SCBW322513U221T | 220 $\pm$ 25%          | 100                   | 0.15                    | 3000           |
| SCBW322513U301T | 300 $\pm$ 25%          | 100                   | 0.15                    | 3000           |
| SCBW322513U501T | 500 $\pm$ 25%          | 100                   | 0.15                    | 2000           |
| SCBW322513U601T | 600 $\pm$ 25%          | 100                   | 0.20                    | 2000           |
| SCBW322513U801T | 800 $\pm$ 25%          | 100                   | 0.25                    | 2000           |
| SCBW322513U102T | 1000 $\pm$ 25%         | 100                   | 0.30                    | 2000           |

## SCBW451616Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBW451616U190T | 12~25                  | 100                   | 0.015                   | 6000           |
| SCBW451616U260T | 26 $\pm$ 25%           | 100                   | 0.05                    | 3000           |
| SCBW451616U310T | 31 $\pm$ 25%           | 100                   | 0.05                    | 3000           |
| SCBW451616U600T | 60 $\pm$ 25%           | 100                   | 0.06                    | 3000           |
| SCBW451616U750T | 75 $\pm$ 25%           | 100                   | 0.06                    | 3000           |
| SCBW451616U800T | 80 $\pm$ 25%           | 100                   | 0.08                    | 3000           |
| SCBW451616U900T | 90 $\pm$ 25%           | 100                   | 0.10                    | 3000           |
| SCBW451616U121T | 120 $\pm$ 25%          | 100                   | 0.10                    | 3000           |
| SCBW451616U151T | 150 $\pm$ 25%          | 100                   | 0.10                    | 3000           |
| SCBW451616U221T | 220 $\pm$ 25%          | 100                   | 0.15                    | 2000           |
| SCBW451616U301T | 300 $\pm$ 25%          | 100                   | 0.20                    | 2000           |
| SCBW451616U501T | 500 $\pm$ 25%          | 100                   | 0.25                    | 1000           |
| SCBW451616U601T | 600 $\pm$ 25%          | 100                   | 0.30                    | 1000           |

## SCBW453215Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBW453215U300T | 30 $\pm$ 25%           | 100                   | 0.06                    | 5000           |
| SCBW453215U310T | 31 $\pm$ 25%           | 100                   | 0.06                    | 5000           |
| SCBW453215U380T | 38 $\pm$ 25%           | 100                   | 0.06                    | 5000           |
| SCBW453215U400T | 40 $\pm$ 25%           | 100                   | 0.06                    | 4000           |
| SCBW453215U500T | 50 $\pm$ 25%           | 100                   | 0.06                    | 4000           |
| SCBW453215U600T | 60 $\pm$ 25%           | 100                   | 0.06                    | 4000           |
| SCBW453215U700T | 70 $\pm$ 25%           | 100                   | 0.06                    | 4000           |
| SCBW453215U800T | 80 $\pm$ 25%           | 100                   | 0.08                    | 4000           |
| SCBW453215U900T | 90 $\pm$ 25%           | 100                   | 0.08                    | 4000           |
| SCBW453215U101T | 100 $\pm$ 25%          | 100                   | 0.08                    | 4000           |
| SCBW453215U121T | 120 $\pm$ 25%          | 100                   | 0.08                    | 4000           |
| SCBW453215U151T | 150 $\pm$ 25%          | 100                   | 0.10                    | 3000           |
| SCBW453215U181T | 180 $\pm$ 25%          | 100                   | 0.12                    | 3000           |
| SCBW453215U201T | 200 $\pm$ 25%          | 100                   | 0.12                    | 3000           |
| SCBW453215U221T | 220 $\pm$ 25%          | 100                   | 0.15                    | 2000           |



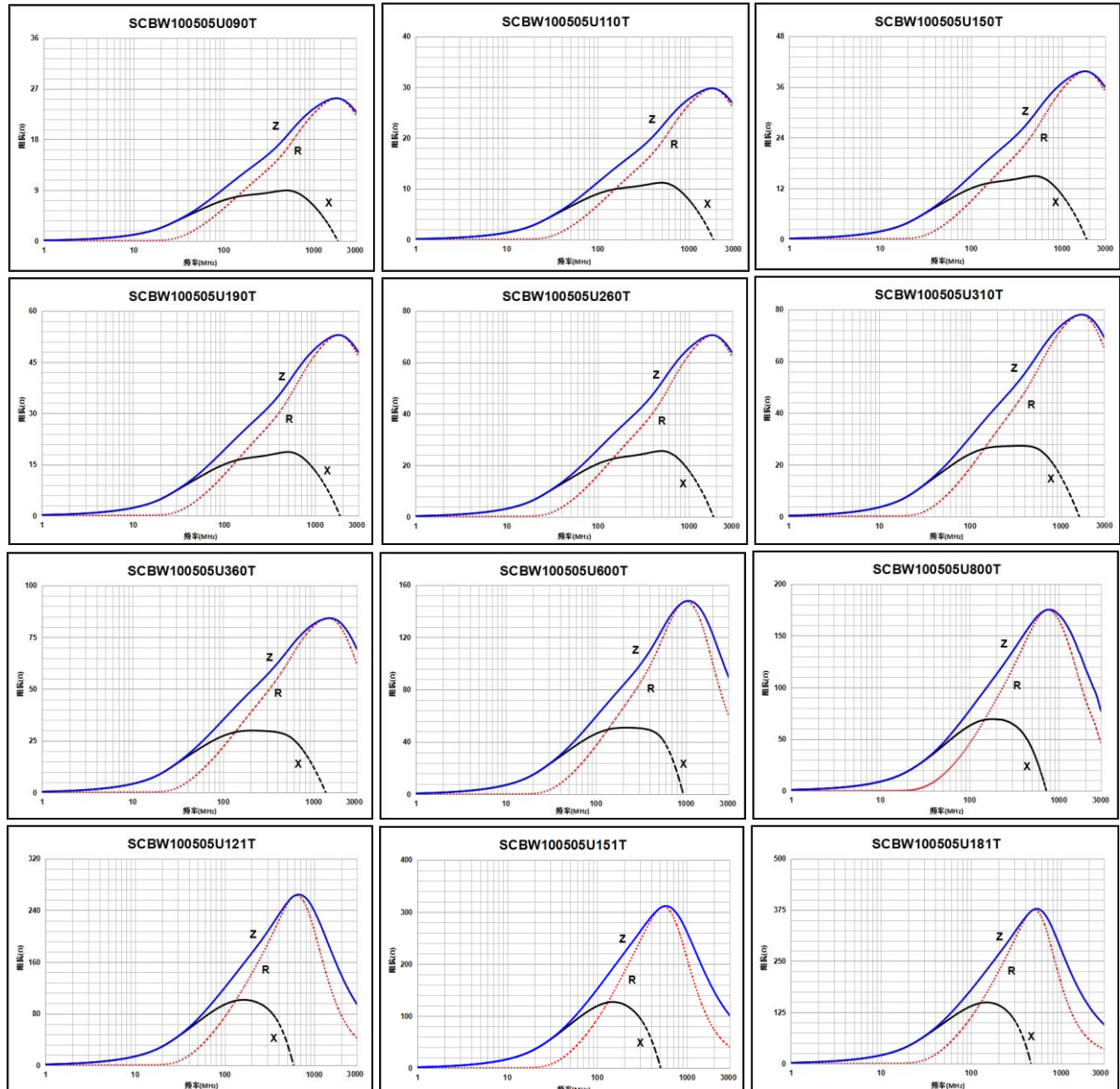
## Electrical Characteristics 电气性能

## SCBW453215Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | I <sub>r</sub> (mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|-----------------------------|
| SCBW453215U301T | 300 $\pm$ 25%          | 100                   | 0.15                    | 2000                        |
| SCBW453215U401T | 400 $\pm$ 25%          | 100                   | 0.20                    | 1000                        |
| SCBW453215U501T | 500 $\pm$ 25%          | 100                   | 0.20                    | 1000                        |
| SCBW453215U601T | 600 $\pm$ 25%          | 100                   | 0.25                    | 1000                        |
| SCBW453215U801T | 800 $\pm$ 25%          | 100                   | 0.30                    | 1000                        |
| SCBW453215U102T | 1000 $\pm$ 25%         | 100                   | 0.35                    | 800                         |

## Impedance Frequency Characteristics 阻抗频率性能

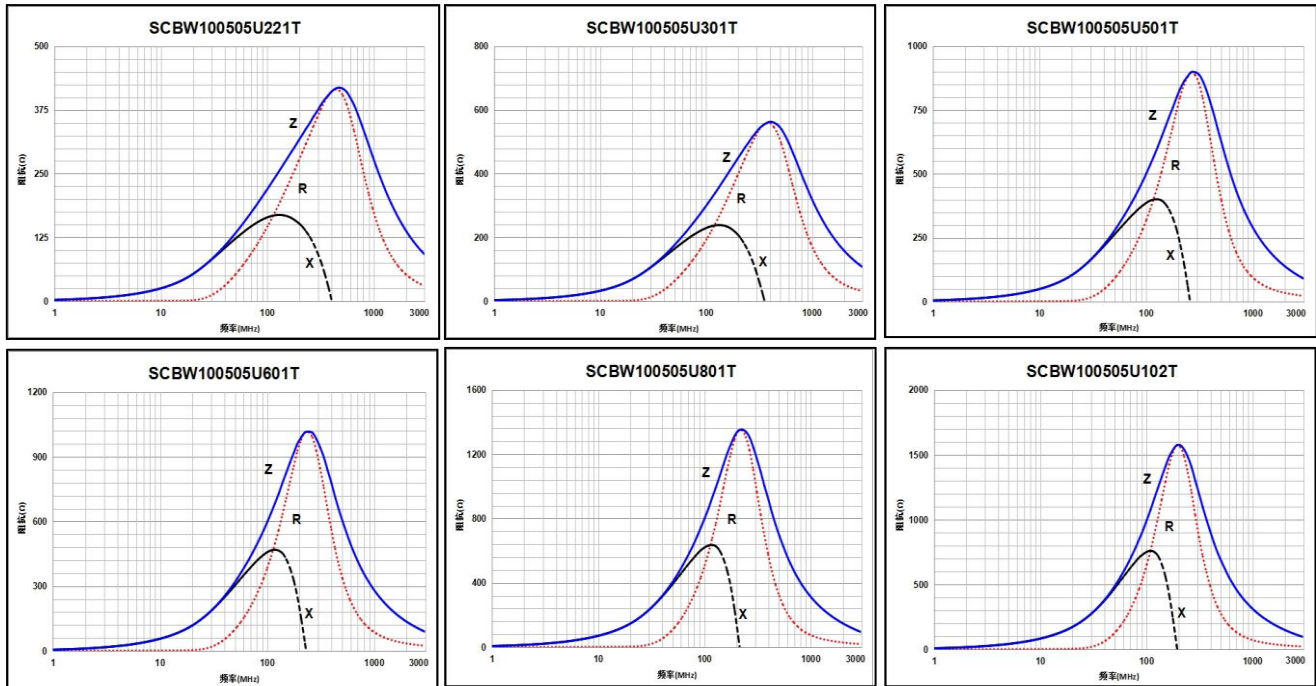
## SCBW100505 Series



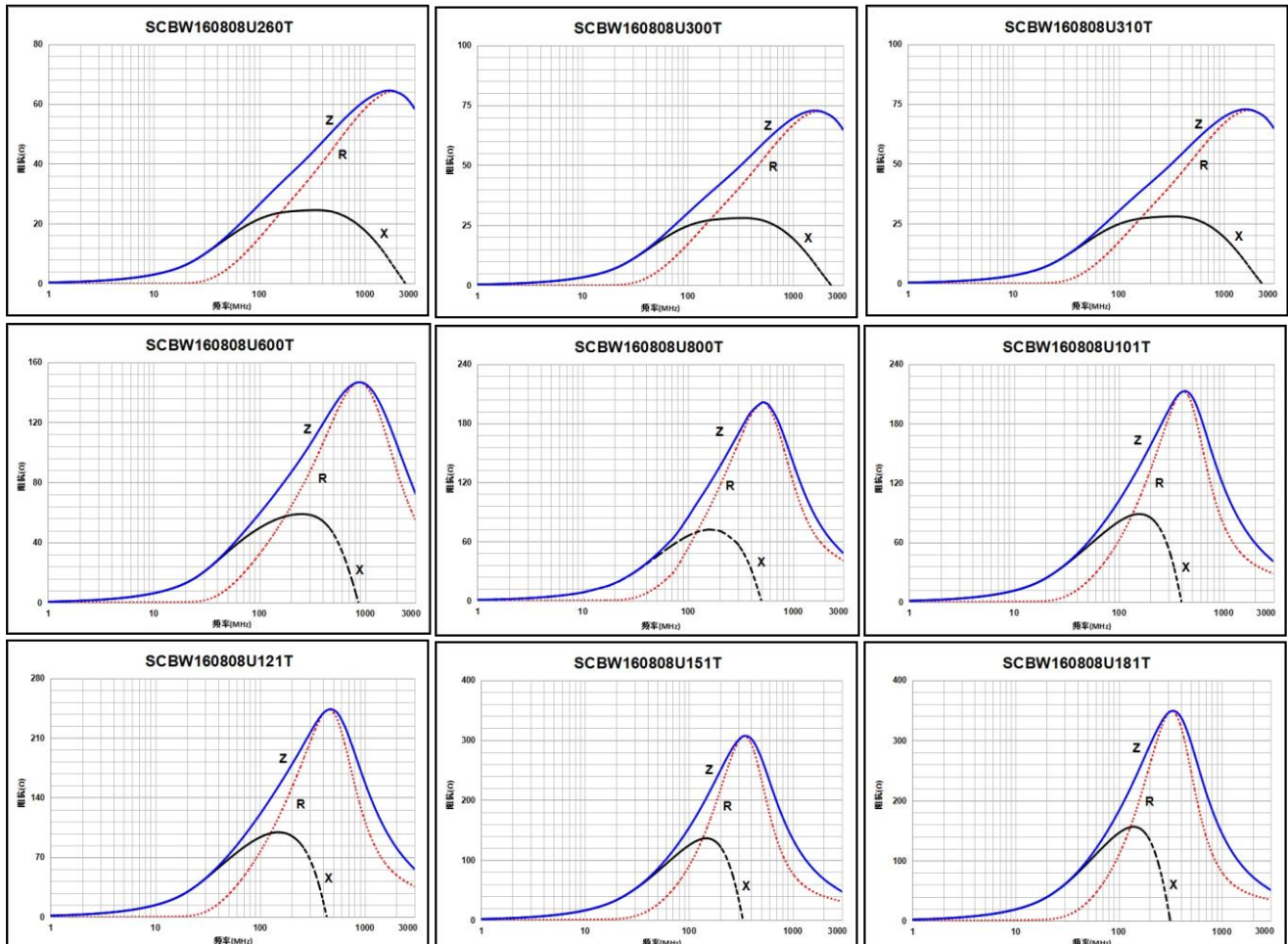


## Impedance Frequency Characteristics 阻抗频率性能

## SCBW100505 Series



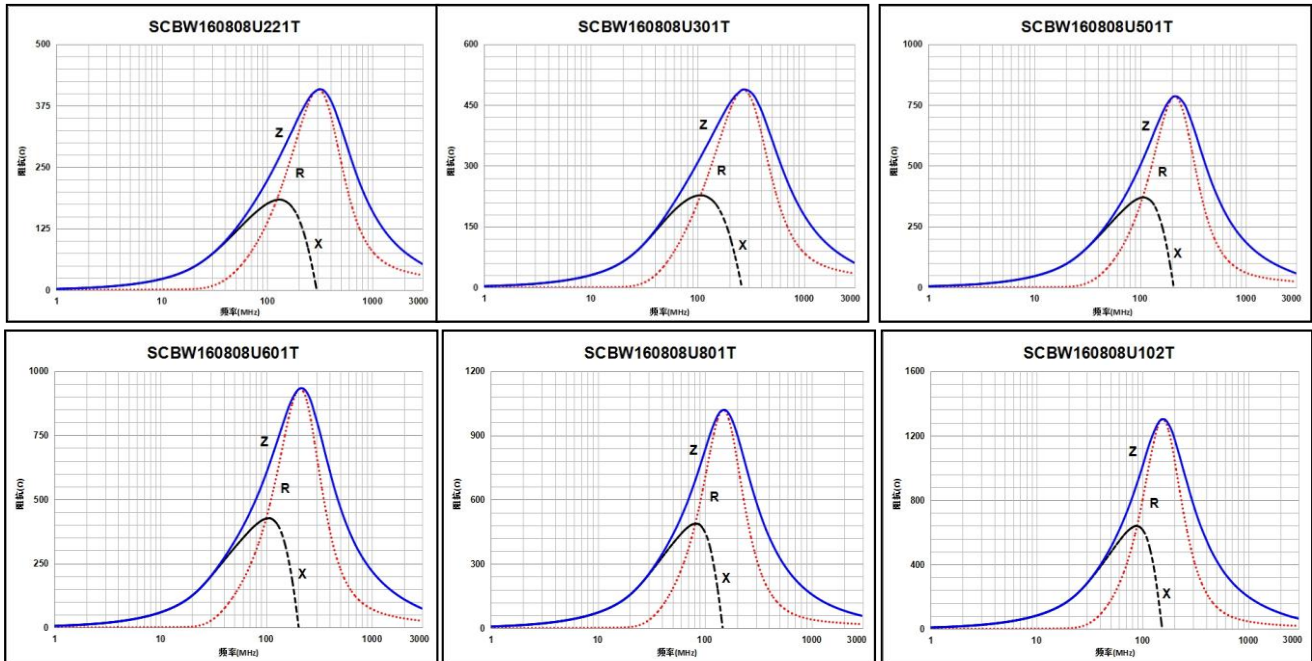
## SCBW160808 Series



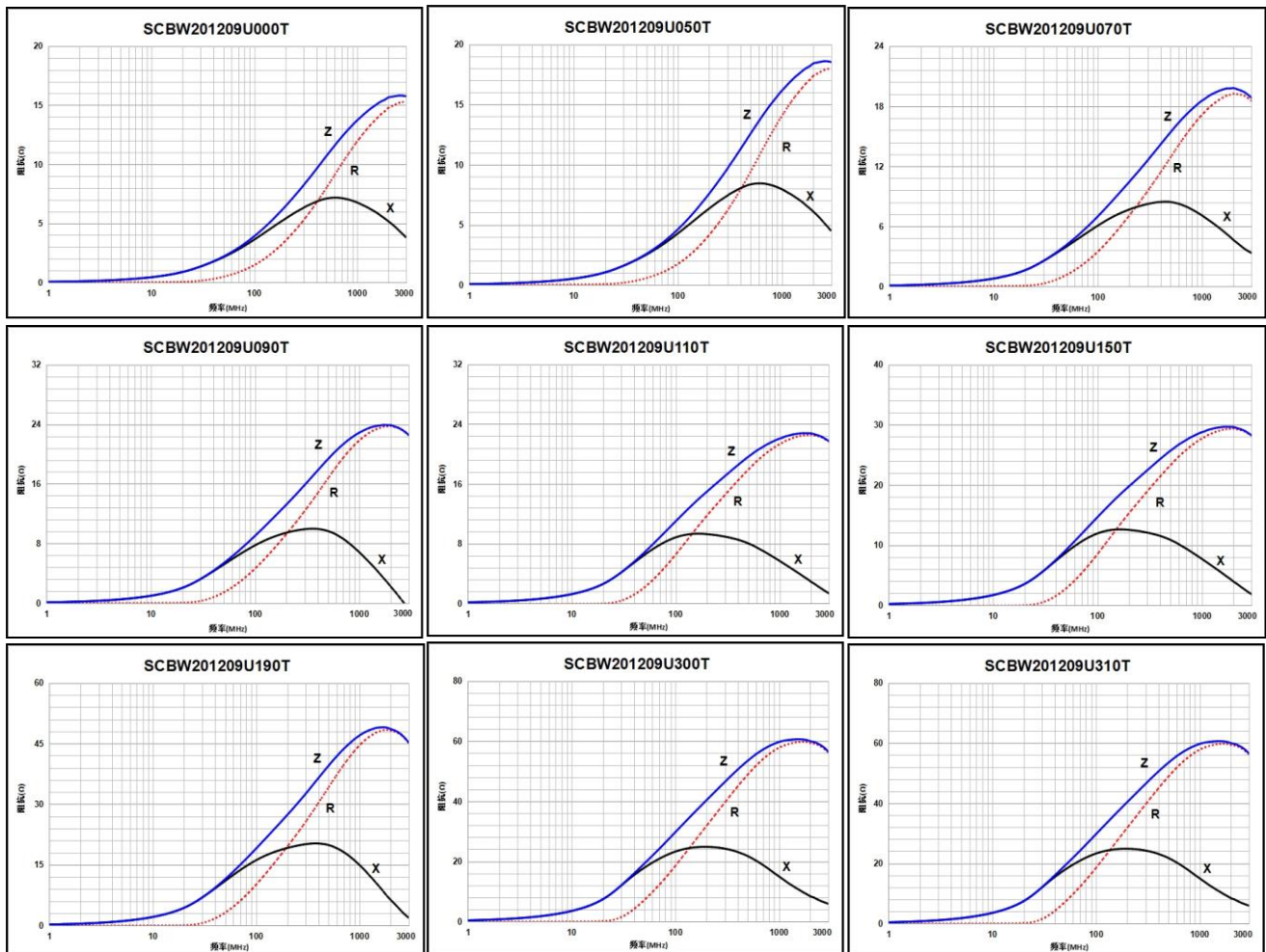
## Impedance Frequency Characteristics 阻抗频率性能



### SCBW160808 Series



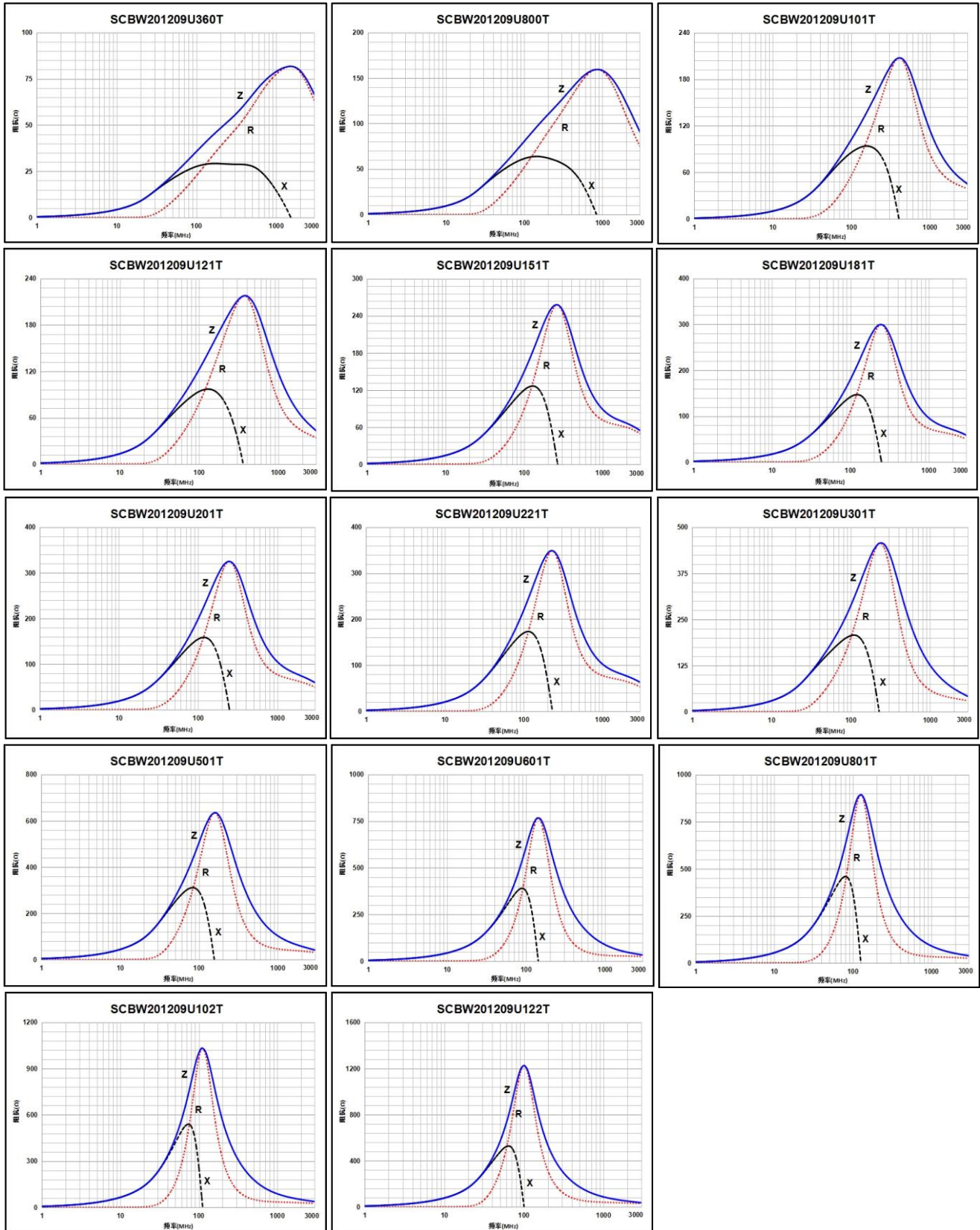
### SCBW201209 Series



### Impedance Frequency Characteristics 阻抗频率性能



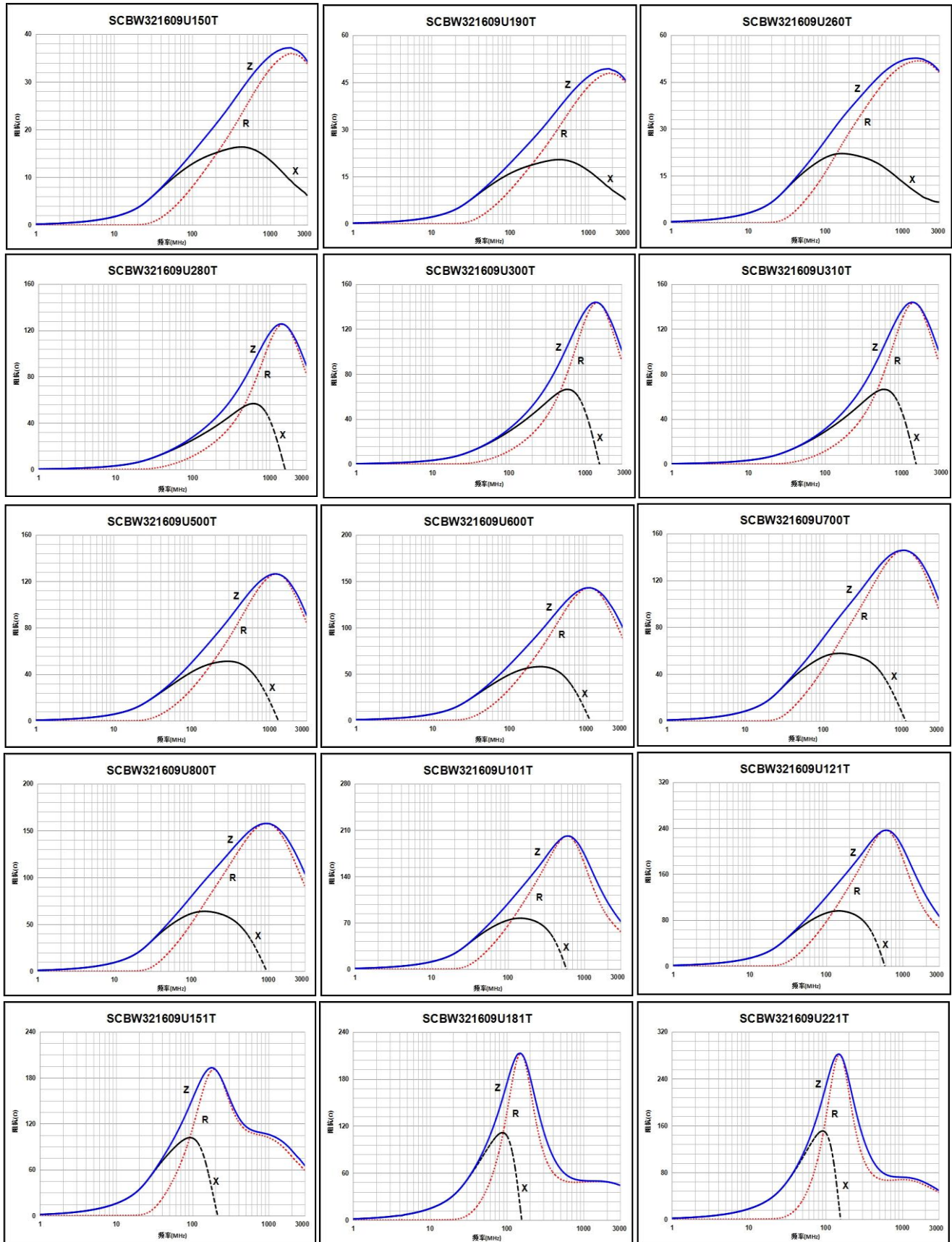
SCBW201209 Series



Impedance Frequency Characteristics 阻抗频率性能



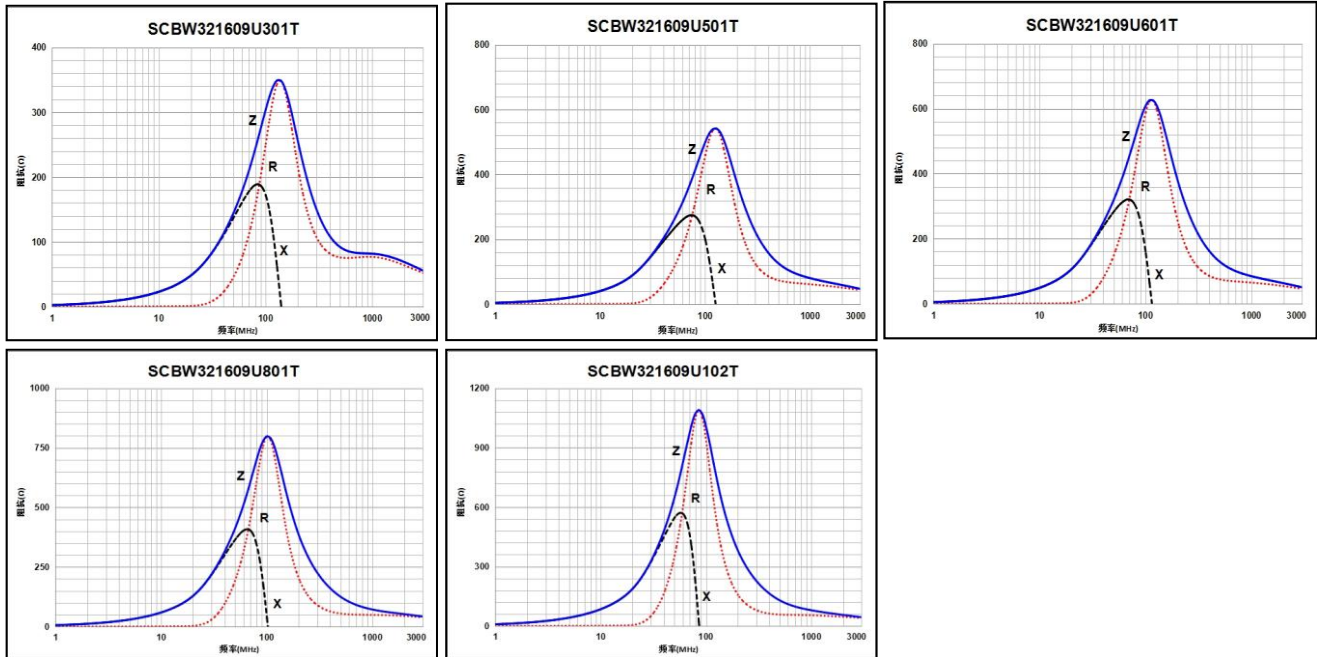
## SCBW321609 Series



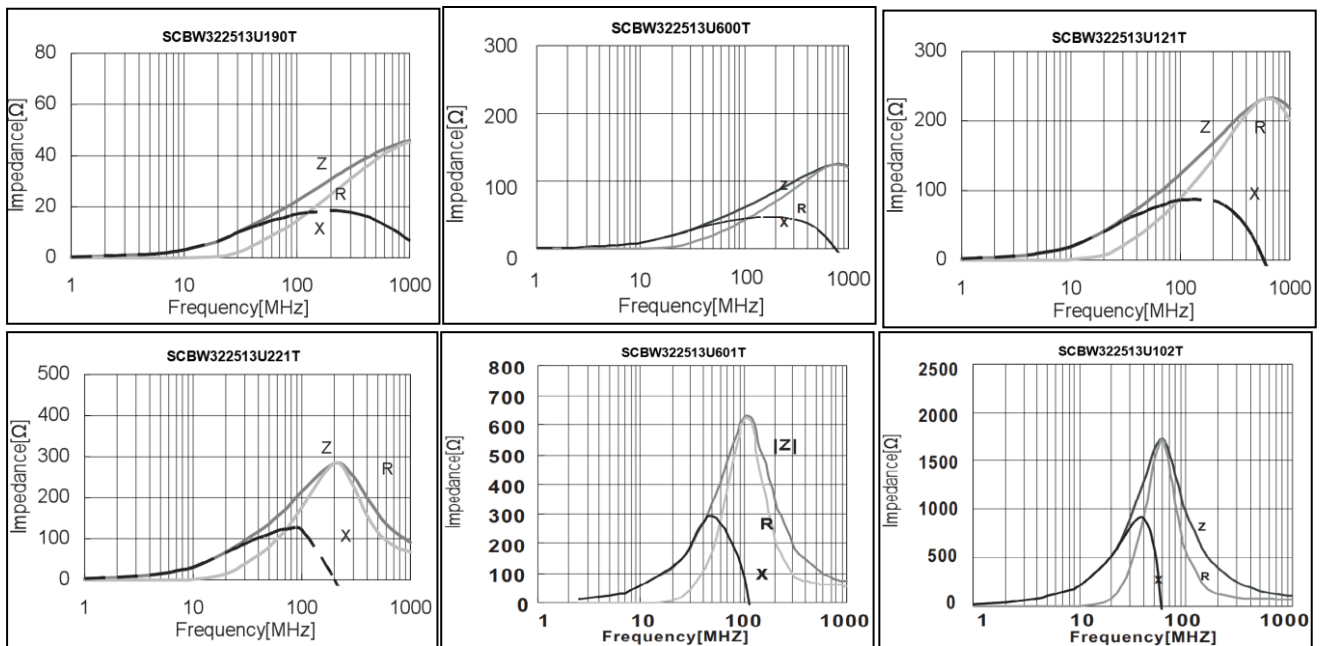
## Impedance Frequency Characteristics 阻抗频率性能



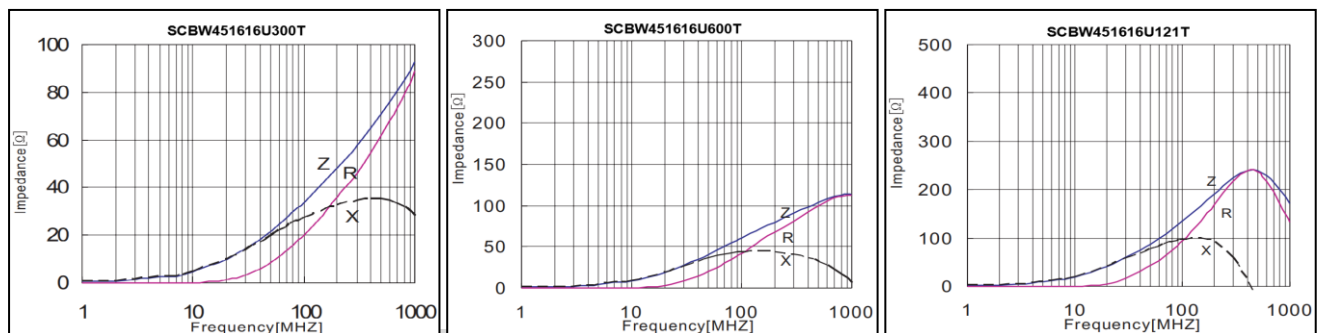
### SCBW321609 Series



### SCBW322513 Series



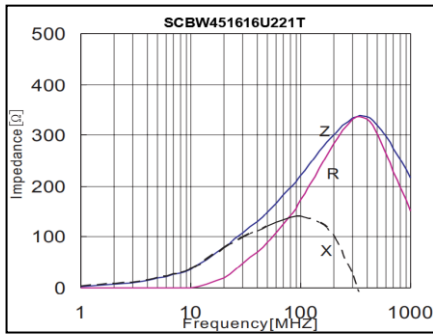
### SCBW451616 Series



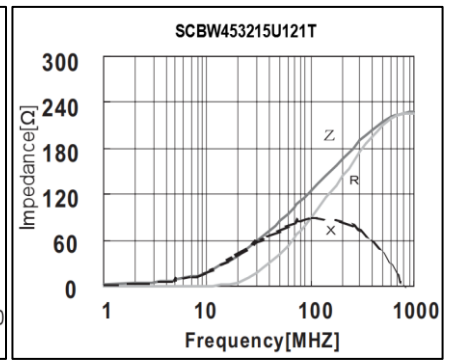
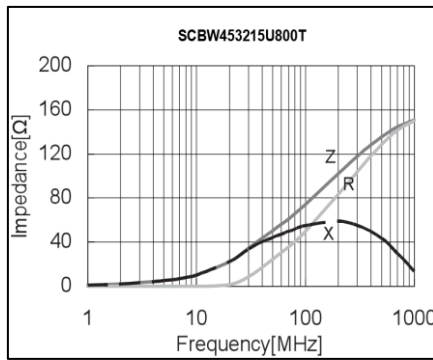
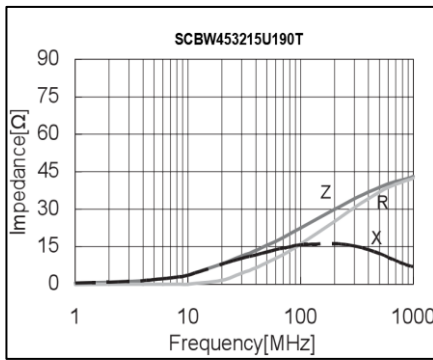
Impedance Frequency Characteristics 阻抗频率性能



### SCBW451616 Series



### SCBW453215 Series





Multilayer Chip Power Bead SCBM Series 叠层片式超大电流磁珠 SCBM 系列

Features 特点

- Multilayer monolithic construction yields high reliability

独石结构、高可靠性

- A unique terminal electrode structure ensures high permissible current, 6A max.

特别的设计可承受最大 6A 的电流

- High impedance over a wide frequency range

在较宽的频段具有高阻抗



Applications 应用

- Video equipment, audio equipment 视频音频设备
- Automotive electrical equipment 电气自动化设备
- Communication equipment 通讯设备
- OA equipment and other OA 设备及其它领域

Product Identification 产品标识

SCBM 201209 U 121 T

① ② ③ ④ ⑤

① Series name 系列名称

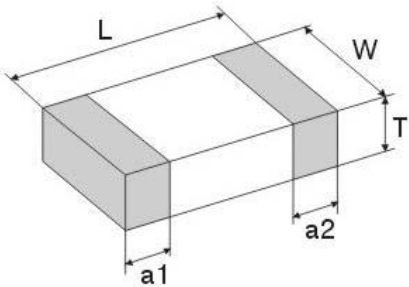
② Dimension 产品尺寸L×W×T: 【201209: 2.0mm×1.2 mm×0.9mm】

③ Material code 材料代码

④ Impedance 阻抗: 【100=10Ω 101=100Ω 102=1000Ω】

⑤ Packing Style: 【 T: Taping 编带盘装B: Bulk 散装】

Shapes And Dimensions 外形及尺寸示意图



| Type          | Dimensions (mm) [inch]  |                         |                         |                         |
|---------------|-------------------------|-------------------------|-------------------------|-------------------------|
|               | L                       | W                       | T                       | a1, a2                  |
| 100505 [0402] | 1.00±0.15 [0.04±0.006]  | 0.50±0.15 [0.02±0.006]  | 0.50±0.15 [0.02±0.006]  | 0.25±0.10 [0.01±0.004]  |
| 160808 [0603] | 1.60±0.20 [0.063±0.008] | 0.80±0.20 [0.031±0.008] | 0.80±0.20 [0.031±0.008] | 0.30±0.20 [0.012±0.008] |
| 201209 [0805] | 2.00±0.20 [0.079±0.008] | 1.20±0.20 [0.049±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |
| 321609 [1206] | 3.20±0.20 [0.126±0.008] | 1.60±0.20 [0.063±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |
| 322513 [1210] | 3.20±0.20 [0.126±0.008] | 2.50±0.20 [0.098±0.008] | 1.30±0.20 [0.051±0.008] | 0.50±0.30 [0.02±0.012]  |
| 451616 [1806] | 4.50±0.20 [0.180±0.008] | 1.60±0.20 [0.063±0.008] | 1.60±0.20 [0.063±0.008] | 0.50±0.30 [0.02±0.012]  |
| 453215 [1812] | 4.50±0.20 [0.180±0.008] | 3.20±0.20 [0.126±0.008] | 1.50±0.20 [0.06±0.008]  | 0.50±0.30 [0.02±0.012]  |

**Electrical Characteristics 电气性能**

## SCBM100505 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBM100505U000T | 0~15                   | 100                   | 0.05                    | 1800           |
| SCBM100505U050T | 0~15                   | 100                   | 0.05                    | 1800           |
| SCBM100505U070T | 0~11                   | 100                   | 0.05                    | 1800           |
| SCBM100505U090T | 5~13                   | 100                   | 0.05                    | 1800           |
| SCBM100505U110T | 7~15                   | 100                   | 0.05                    | 1800           |
| SCBM100505U150T | 9~21                   | 100                   | 0.05                    | 1800           |
| SCBM100505U190T | 12~25                  | 100                   | 0.06                    | 1500           |
| SCBM100505U300T | 30 $\pm$ 25%           | 100                   | 0.08                    | 1300           |
| SCBM100505U600T | 60 $\pm$ 25%           | 100                   | 0.10                    | 1000           |
| SCBM100505U121T | 120 $\pm$ 25%          | 100                   | 0.15                    | 800            |
| SCBM100505U151T | 150 $\pm$ 25%          | 100                   | 0.20                    | 700            |
| SCBM100505U201T | 200 $\pm$ 25%          | 100                   | 0.25                    | 700            |
| SCBM100505U221T | 220 $\pm$ 25%          | 100                   | 0.30                    | 600            |
| SCBM100505U301T | 300 $\pm$ 25%          | 100                   | 0.30                    | 600            |
| SCBM100505U601T | 600 $\pm$ 25%          | 100                   | 0.50                    | 500            |
| SCBM100505U801T | 800 $\pm$ 25%          | 100                   | 0.65                    | 300            |

## SCBM160808 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBM160808U000T | 0~15                   | 100                   | 0.02                    | 6000           |
| SCBM160808U050T | 0~15                   | 100                   | 0.02                    | 6000           |
| SCBM160808U070T | 0~11                   | 100                   | 0.02                    | 6000           |
| SCBM160808U090T | 5~13                   | 100                   | 0.02                    | 6000           |
| SCBM160808U110T | 7~15                   | 100                   | 0.03                    | 5000           |
| SCBM160808U150T | 9~21                   | 100                   | 0.03                    | 5000           |
| SCBM160808U190T | 12~25                  | 100                   | 0.03                    | 5000           |
| SCBM160808U300T | 30 $\pm$ 25%           | 100                   | 0.03                    | 4000           |
| SCBM160808U600T | 60 $\pm$ 25%           | 100                   | 0.04                    | 3000           |
| SCBM160808U101T | 100 $\pm$ 25%          | 100                   | 0.06                    | 2500           |
| SCBM160808U121T | 120 $\pm$ 25%          | 100                   | 0.065                   | 2000           |
| SCBM160808U181T | 180 $\pm$ 25%          | 100                   | 0.09                    | 1500           |
| SCBM160808U221T | 220 $\pm$ 25%          | 100                   | 0.12                    | 1500           |
| SCBM160808U301T | 300 $\pm$ 25%          | 100                   | 0.18                    | 1500           |
| SCBM160808U501T | 500 $\pm$ 25%          | 100                   | 0.18                    | 1200           |
| SCBM160808U601T | 600 $\pm$ 25%          | 100                   | 0.18                    | 1200           |

**Electrical Characteristics 电气性能**

## SCBM201209 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBM201209U000T | 0~15                   | 100                   | 0.01                    | 6000           |
| SCBM201209U050T | 0~15                   | 100                   | 0.01                    | 6000           |
| SCBM201209U070T | 0~11                   | 100                   | 0.01                    | 6000           |
| SCBM201209U090T | 5~13                   | 100                   | 0.01                    | 6000           |
| SCBM201209U110T | 7~15                   | 100                   | 0.01                    | 6000           |
| SCBM201209U150T | 9~21                   | 100                   | 0.01                    | 6000           |
| SCBM201209U190T | 12~25                  | 100                   | 0.01                    | 6000           |
| SCBM201209U300T | 30 $\pm$ 25%           | 100                   | 0.01                    | 6000           |
| SCBM201209U600T | 60 $\pm$ 25%           | 100                   | 0.04                    | 3500           |
| SCBM201209U800T | 80 $\pm$ 25%           | 100                   | 0.04                    | 3000           |
| SCBM201209U121T | 120 $\pm$ 25%          | 100                   | 0.05                    | 3000           |
| SCBM201209U181T | 180 $\pm$ 25%          | 100                   | 0.08                    | 2500           |
| SCBM201209U221T | 220 $\pm$ 25%          | 100                   | 0.08                    | 2500           |
| SCBM201209U301T | 300 $\pm$ 25%          | 100                   | 0.08                    | 2500           |
| SCBM201209U601T | 600 $\pm$ 25%          | 100                   | 0.10                    | 2000           |
| SCBM201209U102T | 1000 $\pm$ 25%         | 100                   | 0.12                    | 1500           |

## SCBM321609 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|----------------|
| SCBM321609U000T | 0~15                   | 100                   | 0.01                    | 6000           |
| SCBM321609U050T | 0~15                   | 100                   | 0.01                    | 6000           |
| SCBM321609U070T | 0~11                   | 100                   | 0.01                    | 6000           |
| SCBM321609U090T | 5~13                   | 100                   | 0.015                   | 6000           |
| SCBM321609U110T | 7~15                   | 100                   | 0.015                   | 6000           |
| SCBM321609U150T | 9~21                   | 100                   | 0.015                   | 6000           |
| SCBM321609U190T | 12~25                  | 100                   | 0.015                   | 6000           |
| SCBM321609U260T | 26 $\pm$ 25%           | 100                   | 0.015                   | 6000           |
| SCBM321609U280T | 28 $\pm$ 25%           | 100                   | 0.015                   | 6000           |
| SCBM321609U300T | 30 $\pm$ 25%           | 100                   | 0.015                   | 6000           |
| SCBM321609U310T | 31 $\pm$ 25%           | 100                   | 0.025                   | 4000           |
| SCBM321609U500T | 50 $\pm$ 25%           | 100                   | 0.025                   | 4000           |
| SCBM321609U600T | 60 $\pm$ 25%           | 100                   | 0.025                   | 4000           |
| SCBM321609U700T | 70 $\pm$ 25%           | 100                   | 0.035                   | 4000           |
| SCBM321609U800T | 80 $\pm$ 25%           | 100                   | 0.035                   | 4000           |
| SCBM321609U121T | 120 $\pm$ 25%          | 100                   | 0.035                   | 4000           |

**Electrical Characteristics 电气性能**

## SCBM321609 Series

| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | I <sub>r</sub> (mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|-----------------------------|
| SCBM321609U151T | 150 $\pm$ 25%          | 100                   | 0.045                   | 3000                        |
| SCBM321609U221T | 220 $\pm$ 25%          | 100                   | 0.055                   | 3000                        |
| SCBM321609U301T | 300 $\pm$ 25%          | 100                   | 0.065                   | 2500                        |
| SCBM321609U501T | 500 $\pm$ 25%          | 100                   | 0.085                   | 2500                        |
| SCBM321609U601T | 600 $\pm$ 25%          | 100                   | 0.10                    | 2000                        |
| SCBM321609U801T | 800 $\pm$ 25%          | 100                   | 0.11                    | 2000                        |
| SCBM321609U102T | 1000 $\pm$ 25%         | 100                   | 0.12                    | 2000                        |

## SCBM451616 Series

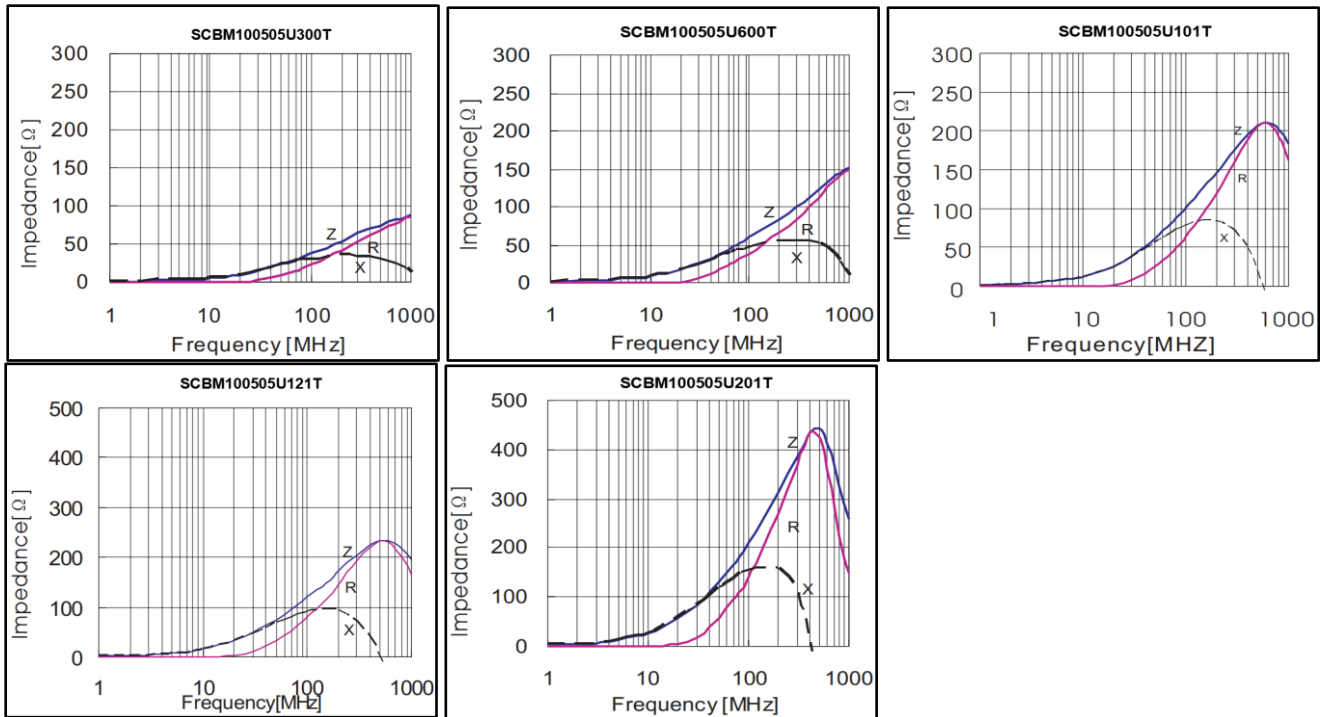
| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | I <sub>r</sub> (mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|-----------------------------|
| SCBM451616U190T | 12~25                  | 100                   | 0.01                    | 6000                        |
| SCBM451616U260T | 26 $\pm$ 25%           | 100                   | 0.015                   | 6000                        |
| SCBM451616U310T | 31 $\pm$ 25%           | 100                   | 0.015                   | 6000                        |
| SCBM451616U600T | 60 $\pm$ 25%           | 100                   | 0.015                   | 6000                        |
| SCBM451616U750T | 75 $\pm$ 25%           | 100                   | 0.020                   | 4000                        |
| SCBM451616U800T | 80 $\pm$ 25%           | 100                   | 0.025                   | 3000                        |

## SCBM453215 Series

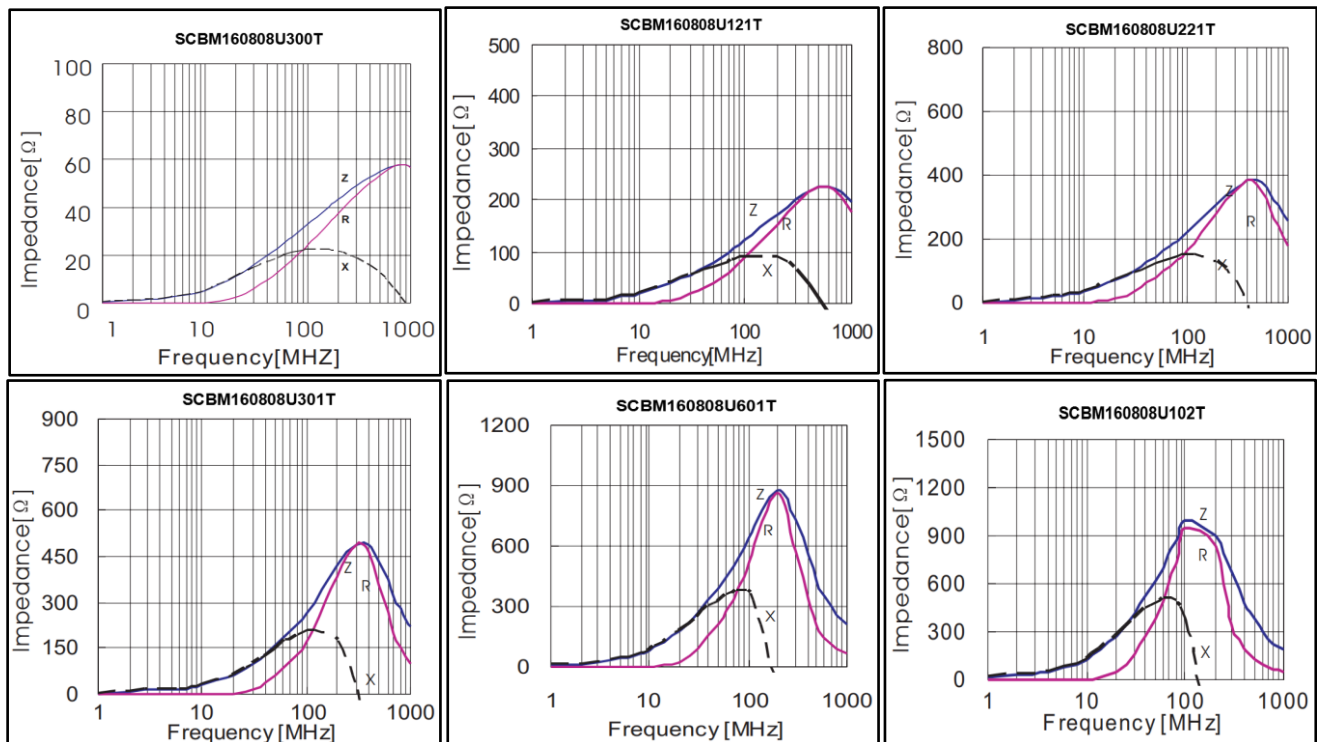
| Part Number     | Impedance ( $\Omega$ ) | Z Test Freq.<br>(MHz) | RDC( $\Omega$ )<br>Max. | I <sub>r</sub> (mA)<br>Max. |
|-----------------|------------------------|-----------------------|-------------------------|-----------------------------|
| SCBM453215U300T | 30 $\pm$ 25%           | 100                   | 0.01                    | 6000                        |
| SCBM453215U310T | 31 $\pm$ 25%           | 100                   | 0.01                    | 6000                        |
| SCBM453215U380T | 38 $\pm$ 25%           | 100                   | 0.01                    | 6000                        |
| SCBM453215U400T | 40 $\pm$ 25%           | 100                   | 0.01                    | 6000                        |
| SCBM453215U500T | 50 $\pm$ 25%           | 100                   | 0.01                    | 6000                        |
| SCBM453215U600T | 60 $\pm$ 25%           | 100                   | 0.01                    | 6000                        |
| SCBM453215U700T | 70 $\pm$ 25%           | 100                   | 0.01                    | 6000                        |
| SCBM453215U101T | 100 $\pm$ 25%          | 100                   | 0.02                    | 6000                        |
| SCBM453215U181T | 180 $\pm$ 25%          | 100                   | 0.02                    | 6000                        |
| SCBM453215U221T | 220 $\pm$ 25%          | 100                   | 0.02                    | 6000                        |

**Impedance Frequency Characteristics 阻抗频率性能**

## SCBM100505 Series

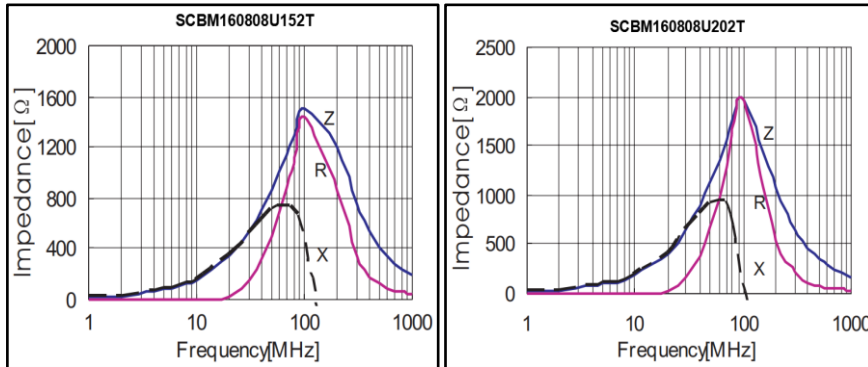


## SCBM160808 Series

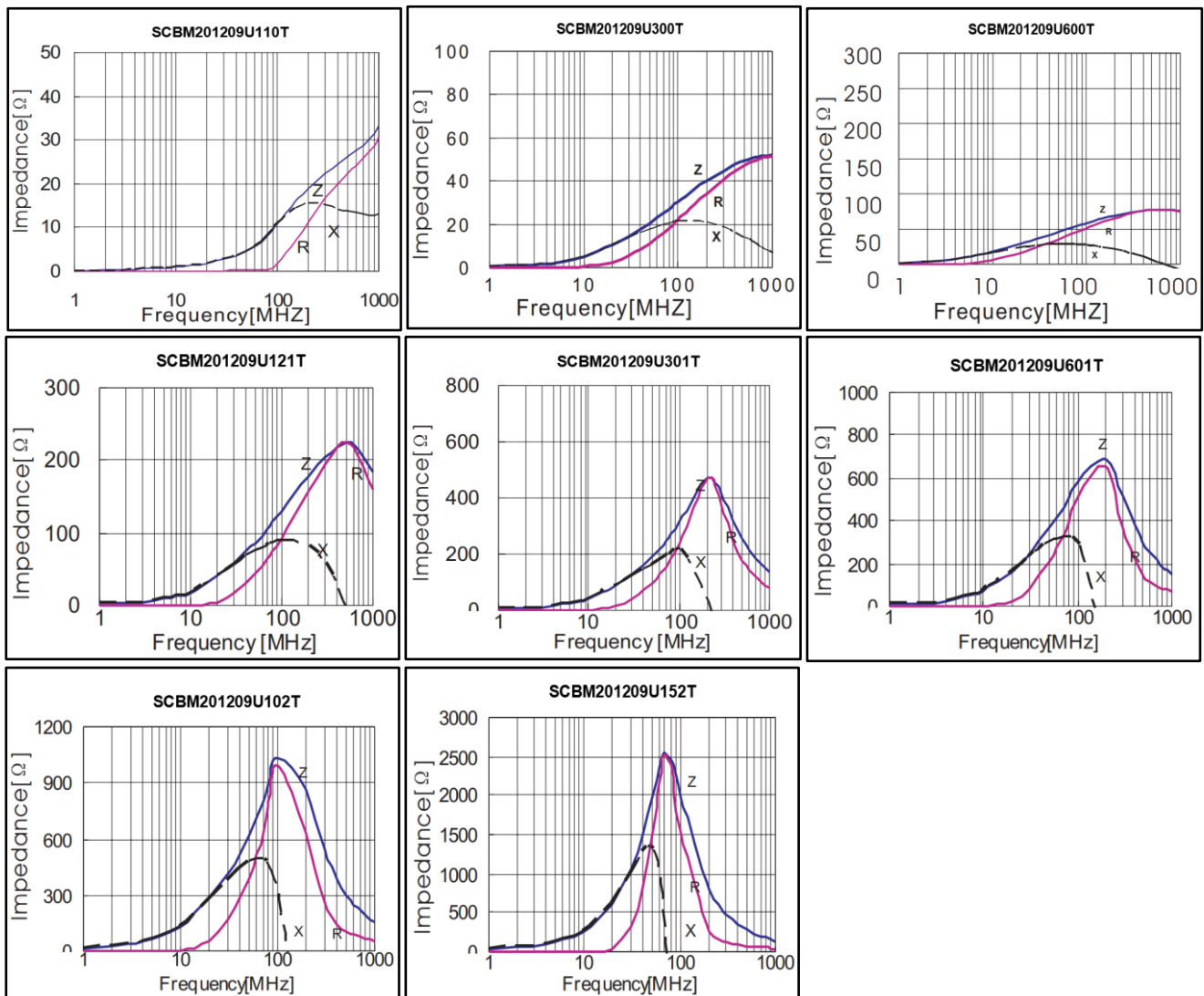


**Impedance Frequency Characteristics 阻抗频率性能**

## SCBM160808 Series



## SCBM201209 Series



**Multilayer Chip Ferrite Inductor SCMI Series 叠层片式铁氧体电感 SCMI 系列****Features 特点**

- Compact size and light weight 尺寸小、重量轻
- Excellent solderability and heat resistance for either flow or reflow soldering 良好的可焊性和耐焊性
- No cross coupling between inductors due to magnetic shield 良好的磁屏蔽抗干扰性

**Applications 应用**

- Resonance circuit, traps, filter circuits 应用于谐振电路、陷波及滤波电路
- RF choke in telecommunications equipment, cordless phones, radio equipment 电信、广播设备中的高频扼流

**Product Identification 产品标识**

SCMI 201209 V 47N K T

① ② ③ ④ ⑤ ⑥

① Series name 系列名称

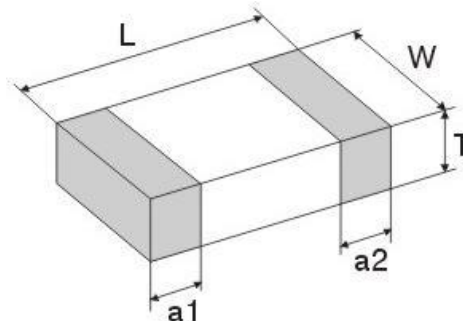
② Dimension 产品尺寸L×W×T: 【201209: 2.0mm×1.2 mm×0.9mm】

③ Material code 材料代码

④ Inductance 电感量: 【47N=0.047μH R10=0.1μH 2R7=2.7μH 150=15μH】

⑤ Tolerance of Inductance 电感量公差: 【J:±5% K:±10% M: ±20%】

⑥ Packing Style: 【T: Taping 编带盘装B: Bulk 散装】

**Shapes And Dimensions 外形及尺寸示意图**

| Type          | Dimensions (mm) [inch]  |                         |                         |                         |
|---------------|-------------------------|-------------------------|-------------------------|-------------------------|
|               | L                       | W                       | T                       | a1, a2                  |
| 100505 [0402] | 1.00±0.15 [0.04±0.006]  | 0.50±0.15 [0.02±0.006]  | 0.50±0.15 [0.02±0.006]  | 0.25±0.10 [0.01±0.004]  |
| 160808 [0603] | 1.60±0.20 [0.063±0.008] | 0.80±0.20 [0.031±0.008] | 0.80±0.20 [0.031±0.008] | 0.30±0.20 [0.012±0.008] |
| 201209 [0805] | 2.00±0.20 [0.079±0.008] | 1.20±0.20 [0.049±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |
| 201212 [0805] | 2.00±0.20 [0.079±0.008] | 1.20±0.20 [0.049±0.008] | 1.20±0.20 [0.047±0.008] | 0.50±0.30 [0.02±0.012]  |
| 321609 [1206] | 3.20±0.20 [0.126±0.008] | 1.60±0.20 [0.063±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |
| 321611 [1206] | 3.20±0.20 [0.126±0.008] | 1.60±0.20 [0.063±0.008] | 1.10±0.20 [0.043±0.008] | 0.50±0.30 [0.02±0.012]  |
| 322513 [1210] | 3.20±0.20 [0.126±0.008] | 2.50±0.20 [0.098±0.008] | 1.30±0.20 [0.051±0.008] | 0.50±0.30 [0.02±0.012]  |
| 451616 [1806] | 4.50±0.20 [0.180±0.008] | 1.60±0.20 [0.063±0.008] | 1.60±0.20 [0.063±0.008] | 0.50±0.30 [0.02±0.012]  |
| 453215 [1812] | 4.50±0.20 [0.180±0.008] | 3.20±0.20 [0.126±0.008] | 1.50±0.20 [0.06±0.008]  | 0.50±0.30 [0.02±0.012]  |

**Electrical Characteristics 电气性能**

## SCMI100505 Series

| Part Number      | L( $\mu$ H)     | Q Min. | L,Q Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|------------------|-----------------|--------|-------------------------|------------------|-------------------------|----------------|
| SCMI100505V47NKT | 0.047 $\pm$ 10% | 10     | 50                      | 220              | 0.45                    | 25             |
| SCMI100505V56NKT | 0.056 $\pm$ 10% | 10     | 50                      | 210              | 0.45                    | 25             |
| SCMI100505V68NKT | 0.068 $\pm$ 10% | 10     | 50                      | 210              | 0.45                    | 25             |
| SCMI100505V82NKT | 0.082 $\pm$ 10% | 10     | 50                      | 200              | 0.45                    | 25             |
| SCMI100505VR10KT | 0.10 $\pm$ 10%  | 15     | 25                      | 200              | 0.7                     | 25             |
| SCMI100505VR12KT | 0.12 $\pm$ 10%  | 15     | 25                      | 165              | 0.7                     | 25             |
| SCMI100505VR15KT | 0.15 $\pm$ 10%  | 15     | 25                      | 140              | 0.8                     | 25             |
| SCMI100505VR18KT | 0.18 $\pm$ 10%  | 15     | 25                      | 120              | 0.8                     | 25             |
| SCMI100505VR22KT | 0.22 $\pm$ 10%  | 15     | 25                      | 110              | 1.0                     | 25             |
| SCMI100505VR27KT | 0.27 $\pm$ 10%  | 15     | 25                      | 95               | 1.2                     | 25             |
| SCMI100505VR33KT | 0.33 $\pm$ 10%  | 15     | 25                      | 85               | 1.2                     | 25             |
| SCMI100505UR39KT | 0.39 $\pm$ 10%  | 15     | 10                      | 70               | 0.6                     | 20             |
| SCMI100505UR47KT | 0.47 $\pm$ 10%  | 15     | 10                      | 68               | 0.7                     | 20             |
| SCMI100505UR56KT | 0.56 $\pm$ 10%  | 15     | 10                      | 55               | 0.8                     | 20             |
| SCMI100505UR68KT | 0.68 $\pm$ 10%  | 15     | 10                      | 50               | 0.9                     | 20             |
| SCMI100505UR82KT | 0.82 $\pm$ 10%  | 15     | 10                      | 45               | 0.9                     | 18             |
| SCMI100505U1R0KT | 1.0 $\pm$ 10%   | 20     | 10                      | 40               | 0.9                     | 15             |
| SCMI100505U1R2KT | 1.2 $\pm$ 10%   | 20     | 10                      | 35               | 1.2                     | 15             |

**Electrical Characteristics 电气性能**

SCMI160808 Series

| Part Number      | L<br>( $\mu$ H) | Q<br>Min. | L,Q Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|------------------|-----------------|-----------|-------------------------|------------------|-------------------------|----------------|
| SCMI160808V47NKT | 0.047 $\pm$ 10% | 15        | 50                      | 260              | 0.20                    | 50             |
| SCMI160808V56NKT | 0.056 $\pm$ 10% | 15        | 50                      | 260              | 0.20                    | 50             |
| SCMI160808V68NKT | 0.068 $\pm$ 10% | 15        | 50                      | 250              | 0.20                    | 50             |
| SCMI160808V82NKT | 0.082 $\pm$ 10% | 15        | 50                      | 245              | 0.20                    | 50             |
| SCMI160808VR10KT | 0.10 $\pm$ 10%  | 20        | 25                      | 240              | 0.25                    | 50             |
| SCMI160808VR12KT | 0.12 $\pm$ 10%  | 20        | 25                      | 205              | 0.30                    | 50             |
| SCMI160808VR15KT | 0.15 $\pm$ 10%  | 20        | 25                      | 180              | 0.30                    | 50             |
| SCMI160808VR18KT | 0.18 $\pm$ 10%  | 20        | 25                      | 165              | 0.30                    | 50             |
| SCMI160808VR22KT | 0.22 $\pm$ 10%  | 20        | 25                      | 150              | 0.40                    | 50             |
| SCMI160808VR27KT | 0.27 $\pm$ 10%  | 20        | 25                      | 136              | 0.45                    | 50             |
| SCMI160808VR33KT | 0.33 $\pm$ 10%  | 20        | 25                      | 125              | 0.50                    | 50             |
| SCMI160808VR39KT | 0.39 $\pm$ 10%  | 20        | 25                      | 110              | 0.60                    | 50             |
| SCMI160808VR47KT | 0.47 $\pm$ 10%  | 20        | 25                      | 105              | 0.70                    | 50             |
| SCMI160808VR56KT | 0.56 $\pm$ 10%  | 20        | 25                      | 95               | 0.70                    | 50             |
| SCMI160808VR68KT | 0.68 $\pm$ 10%  | 20        | 25                      | 90               | 0.90                    | 50             |
| SCMI160808VR82KT | 0.82 $\pm$ 10%  | 20        | 25                      | 85               | 1.00                    | 50             |
| SCMI160808U1R0KT | 1.0 $\pm$ 10%   | 25        | 10                      | 75               | 0.50                    | 25             |
| SCMI160808U1R2KT | 1.2 $\pm$ 10%   | 25        | 10                      | 65               | 0.55                    | 25             |
| SCMI160808U1R5KT | 1.5 $\pm$ 10%   | 25        | 10                      | 60               | 0.70                    | 25             |
| SCMI160808U1R8KT | 1.8 $\pm$ 10%   | 25        | 10                      | 55               | 0.75                    | 25             |
| SCMI160808U2R2KT | 2.2 $\pm$ 10%   | 25        | 10                      | 50               | 0.80                    | 25             |
| SCMI160808U2R7KT | 2.7 $\pm$ 10%   | 25        | 10                      | 45               | 0.90                    | 15             |
| SCMI160808U3R3KT | 3.3 $\pm$ 10%   | 25        | 10                      | 40               | 1.00                    | 15             |
| SCMI160808U3R9KT | 3.9 $\pm$ 10%   | 25        | 10                      | 35               | 1.30                    | 15             |
| SCMI160808X4R7KT | 4.7 $\pm$ 10%   | 25        | 4                       | 33               | 1.50                    | 15             |
| SCMI160808X5R6KT | 5.6 $\pm$ 10%   | 12        | 4                       | 22               | 1.55                    | 5              |
| SCMI160808J6R8KT | 6.8 $\pm$ 10%   | 12        | 4                       | 20               | 1.55                    | 5              |
| SCMI160808J8R2KT | 8.2 $\pm$ 10%   | 12        | 4                       | 18               | 1.65                    | 5              |
| SCMI160808J100KT | 10 $\pm$ 10%    | 20        | 2                       | 17               | 1.75                    | 3              |
| SCMI160808J120KT | 12 $\pm$ 10%    | 20        | 2                       | 15               | 1.85                    | 3              |
| SCMI160808J150MT | 15 $\pm$ 20%    | 20        | 1                       | 14               | 2.50                    | 1              |
| SCMI160808J180MT | 18 $\pm$ 20%    | 20        | 1                       | 13               | 2.70                    | 1              |
| SCMI160808J220MT | 22 $\pm$ 20%    | 20        | 1                       | 12               | 3.00                    | 1              |

**Electrical Characteristics 电气性能**

## SCMI201209 Series

| Part Number      | L( $\mu$ H)     | Q<br>Min. | L,Q Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ )<br>Max. | I <sub>r</sub> (mA)<br>Max. |
|------------------|-----------------|-----------|-------------------------|------------------|-------------------------|-----------------------------|
| SCMI201209V47NKT | 0.047 $\pm$ 10% | 25        | 50                      | 320              | 0.15                    | 300                         |
| SCMI201209V56NKT | 0.056 $\pm$ 10% | 25        | 50                      | 320              | 0.15                    | 300                         |
| SCMI201209V68NKT | 0.068 $\pm$ 10% | 25        | 50                      | 280              | 0.20                    | 300                         |
| SCMI201209V82NKT | 0.082 $\pm$ 10% | 25        | 50                      | 280              | 0.20                    | 300                         |
| SCMI201209VR10KT | 0.10 $\pm$ 10%  | 20        | 25                      | 235              | 0.20                    | 250                         |
| SCMI201209VR12KT | 0.12 $\pm$ 10%  | 20        | 25                      | 220              | 0.25                    | 250                         |
| SCMI201209VR15KT | 0.15 $\pm$ 10%  | 20        | 25                      | 200              | 0.25                    | 250                         |
| SCMI201209VR18KT | 0.18 $\pm$ 10%  | 20        | 25                      | 185              | 0.30                    | 250                         |
| SCMI201209VR22KT | 0.22 $\pm$ 10%  | 20        | 25                      | 170              | 0.30                    | 250                         |
| SCMI201209VR27KT | 0.27 $\pm$ 10%  | 20        | 25                      | 150              | 0.40                    | 250                         |
| SCMI201209VR33KT | 0.33 $\pm$ 10%  | 20        | 25                      | 145              | 0.40                    | 250                         |
| SCMI201209VR39KT | 0.39 $\pm$ 10%  | 25        | 25                      | 135              | 0.50                    | 200                         |
| SCMI201209VR47KT | 0.47 $\pm$ 10%  | 25        | 25                      | 125              | 0.50                    | 200                         |
| SCMI201209VR56KT | 0.56 $\pm$ 10%  | 25        | 25                      | 115              | 0.60                    | 150                         |
| SCMI201209VR68KT | 0.68 $\pm$ 10%  | 25        | 25                      | 105              | 0.65                    | 150                         |
| SCMI201209VR82KT | 0.82 $\pm$ 10%  | 25        | 25                      | 100              | 0.70                    | 150                         |
| SCMI201209U1R0KT | 1.0 $\pm$ 10%   | 35        | 10                      | 75               | 0.40                    | 50                          |
| SCMI201209U1R2KT | 1.2 $\pm$ 10%   | 35        | 10                      | 65               | 0.40                    | 50                          |
| SCMI201209U1R5KT | 1.5 $\pm$ 10%   | 35        | 10                      | 60               | 0.40                    | 50                          |
| SCMI201209U1R8KT | 1.8 $\pm$ 10%   | 35        | 10                      | 55               | 0.40                    | 50                          |
| SCMI201209U2R2KT | 2.2 $\pm$ 10%   | 35        | 10                      | 50               | 0.60                    | 50                          |
| SCMI201209U2R7KT | 2.7 $\pm$ 10%   | 35        | 10                      | 45               | 0.60                    | 50                          |
| SCMI201209U3R3KT | 3.3 $\pm$ 10%   | 35        | 10                      | 41               | 0.60                    | 50                          |
| SCMI201209U3R9KT | 3.9 $\pm$ 10%   | 35        | 10                      | 38               | 0.80                    | 50                          |
| SCMI201209U4R7KT | 4.7 $\pm$ 10%   | 35        | 10                      | 35               | 0.90                    | 30                          |
| SCMI201209X5R6KT | 5.6 $\pm$ 10%   | 30        | 4                       | 32               | 1.00                    | 15                          |
| SCMI201209X6R8KT | 6.8 $\pm$ 10%   | 30        | 4                       | 29               | 1.05                    | 15                          |
| SCMI201209X8R2KT | 8.2 $\pm$ 10%   | 30        | 4                       | 26               | 1.05                    | 15                          |
| SCMI201209X100KT | 10 $\pm$ 10%    | 30        | 2                       | 24               | 1.15                    | 15                          |
| SCMI201209X120KT | 12 $\pm$ 10%    | 30        | 2                       | 22               | 1.15                    | 15                          |
| SCMI201209J150KT | 15 $\pm$ 10%    | 25        | 1                       | 19               | 1.15                    | 5                           |
| SCMI201209J180KT | 18 $\pm$ 10%    | 25        | 1                       | 18               | 1.20                    | 5                           |
| SCMI201209J220KT | 22 $\pm$ 10%    | 25        | 1                       | 16               | 1.20                    | 5                           |
| SCMI201209J270KT | 27 $\pm$ 10%    | 25        | 1                       | 16               | 1.50                    | 5                           |
| SCMI201209J330MT | 33 $\pm$ 20%    | 25        | 1                       | 16               | 1.50                    | 5                           |
| SCMI201212J390MT | 39 $\pm$ 20%    | 25        | 1                       | 16               | 1.50                    | 5                           |
| SCMI201212J470MT | 47 $\pm$ 20%    | 25        | 1                       | 15               | 1.70                    | 5                           |

**Electrical Characteristics 电气性能**

## SCMI321609 Series

| Part Number      | L( $\mu$ H)     | Q<br>Min. | L,Q Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max |
|------------------|-----------------|-----------|-------------------------|------------------|-------------------------|---------------|
| SCMI321609V47NKT | 0.047 $\pm$ 10% | 30        | 50                      | 320              | 0.15                    | 300           |
| SCMI321609V56NKT | 0.056 $\pm$ 10% | 30        | 50                      | 320              | 0.20                    | 300           |
| SCMI321609V68NKT | 0.068 $\pm$ 10% | 30        | 50                      | 280              | 0.25                    | 300           |
| SCMI321609V82NKT | 0.082 $\pm$ 10% | 30        | 50                      | 280              | 0.25                    | 300           |
| SCMI321609VR10KT | 0.10 $\pm$ 10%  | 25        | 25                      | 235              | 0.25                    | 250           |
| SCMI321609VR12KT | 0.12 $\pm$ 10%  | 25        | 25                      | 220              | 0.25                    | 250           |
| SCMI321609VR15KT | 0.15 $\pm$ 10%  | 25        | 25                      | 200              | 0.25                    | 250           |
| SCMI321609VR18KT | 0.18 $\pm$ 10%  | 25        | 25                      | 185              | 0.30                    | 250           |
| SCMI321609VR22KT | 0.22 $\pm$ 10%  | 25        | 25                      | 170              | 0.30                    | 250           |
| SCMI321609VR27KT | 0.27 $\pm$ 10%  | 25        | 25                      | 150              | 0.30                    | 250           |
| SCMI321609VR33KT | 0.33 $\pm$ 10%  | 25        | 25                      | 145              | 0.30                    | 250           |
| SCMI321609VR39KT | 0.39 $\pm$ 10%  | 30        | 25                      | 135              | 0.50                    | 200           |
| SCMI321609VR47KT | 0.47 $\pm$ 10%  | 30        | 25                      | 125              | 0.50                    | 200           |
| SCMI321609VR56KT | 0.56 $\pm$ 10%  | 30        | 25                      | 115              | 0.50                    | 150           |
| SCMI321609VR68KT | 0.68 $\pm$ 10%  | 30        | 25                      | 105              | 0.50                    | 150           |
| SCMI321609VR82KT | 0.82 $\pm$ 10%  | 30        | 25                      | 100              | 0.60                    | 150           |
| SCMI321609U1R0KT | 1.0 $\pm$ 10%   | 35        | 10                      | 75               | 0.30                    | 100           |
| SCMI321609U1R2KT | 1.2 $\pm$ 10%   | 35        | 10                      | 65               | 0.40                    | 100           |
| SCMI321609U1R5KT | 1.5 $\pm$ 10%   | 35        | 10                      | 60               | 0.40                    | 50            |
| SCMI321609U1R8KT | 1.8 $\pm$ 10%   | 35        | 10                      | 55               | 0.40                    | 50            |
| SCMI321609U2R2KT | 2.2 $\pm$ 10%   | 35        | 10                      | 50               | 0.50                    | 50            |
| SCMI321609U2R7KT | 2.7 $\pm$ 10%   | 35        | 10                      | 45               | 0.50                    | 50            |
| SCMI321609U3R3KT | 3.3 $\pm$ 10%   | 35        | 10                      | 41               | 0.50                    | 50            |
| SCMI321609U3R9KT | 3.9 $\pm$ 10%   | 35        | 10                      | 38               | 0.60                    | 50            |
| SCMI321609U4R7KT | 4.7 $\pm$ 10%   | 35        | 10                      | 35               | 0.65                    | 25            |
| SCMI321609U5R6KT | 5.6 $\pm$ 10%   | 35        | 4                       | 32               | 0.80                    | 25            |
| SCMI321609X6R8KT | 6.8 $\pm$ 10%   | 35        | 4                       | 29               | 0.80                    | 25            |
| SCMI321609X8R2KT | 8.2 $\pm$ 10%   | 35        | 4                       | 26               | 0.80                    | 25            |
| SCMI321609X100KT | 10 $\pm$ 10%    | 35        | 2                       | 24               | 0.80                    | 25            |
| SCMI321609X120KT | 12 $\pm$ 10%    | 35        | 2                       | 22               | 0.90                    | 15            |
| SCMI321609J150KT | 15 $\pm$ 10%    | 30        | 1                       | 19               | 1.00                    | 5             |
| SCMI321609J180KT | 18 $\pm$ 10%    | 30        | 1                       | 18               | 1.00                    | 5             |
| SCMI321609J220KT | 22 $\pm$ 10%    | 30        | 1                       | 16               | 1.20                    | 5             |
| SCMI321609J270KT | 27 $\pm$ 10%    | 30        | 1                       | 14               | 1.20                    | 5             |
| SCMI321609J330KT | 33 $\pm$ 10%    | 30        | 1                       | 13               | 1.30                    | 5             |
| SCMI321609J390KT | 39 $\pm$ 10%    | 30        | 1                       | 13               | 1.30                    | 5             |
| SCMI321611J470KT | 47 $\pm$ 10%    | 30        | 1                       | 12               | 1.60                    | 5             |
| SCMI321611J560MT | 56 $\pm$ 20%    | 30        | 1                       | 12               | 1.80                    | 5             |
| SCMI321611J680MT | 68 $\pm$ 20%    | 30        | 1                       | 11               | 2.00                    | 5             |
| SCMI321611J820MT | 82 $\pm$ 20%    | 30        | 1                       | 11               | 2.40                    | 5             |
| SCMI321611J101MT | 100 $\pm$ 20%   | 30        | 1                       | 8                | 3.00                    | 5             |

**Electrical Characteristics 电气性能**

SCMI322513 Series

| Part Number      | L( $\mu$ H)   | Q<br>Min. | L,Q Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max |
|------------------|---------------|-----------|-------------------------|------------------|-------------------------|---------------|
| SCMI322513U1R0KT | 1.0 $\pm$ 10% | 40        | 10                      | 70               | 0.20                    | 600           |
| SCMI322513U1R2KT | 1.2 $\pm$ 10% | 40        | 10                      | 70               | 0.20                    | 600           |
| SCMI322513U1R5KT | 1.5 $\pm$ 10% | 40        | 10                      | 70               | 0.30                    | 500           |
| SCMI322513U1R8KT | 1.8 $\pm$ 10% | 40        | 10                      | 70               | 0.30                    | 500           |
| SCMI322513U2R2KT | 2.2 $\pm$ 10% | 40        | 10                      | 50               | 0.30                    | 500           |
| SCMI322513U2R7KT | 2.7 $\pm$ 10% | 40        | 10                      | 50               | 0.30                    | 500           |
| SCMI322513U3R3KT | 3.3 $\pm$ 10% | 40        | 10                      | 50               | 0.40                    | 500           |
| SCMI322513U3R9KT | 3.9 $\pm$ 10% | 40        | 10                      | 30               | 0.40                    | 500           |
| SCMI322513U4R7KT | 4.7 $\pm$ 10% | 40        | 10                      | 30               | 0.50                    | 500           |
| SCMI322513U5R6KT | 5.6 $\pm$ 10% | 35        | 4                       | 30               | 0.60                    | 450           |
| SCMI322513X6R8KT | 6.8 $\pm$ 10% | 35        | 4                       | 20               | 0.60                    | 450           |
| SCMI322513X8R2KT | 8.2 $\pm$ 10% | 35        | 4                       | 20               | 0.70                    | 400           |
| SCMI322513X100KT | 10 $\pm$ 10%  | 35        | 2                       | 20               | 0.70                    | 400           |
| SCMI322513J120KT | 12 $\pm$ 10%  | 35        | 2                       | 20               | 0.70                    | 400           |
| SCMI322513J150KT | 15 $\pm$ 10%  | 35        | 1                       | 20               | 0.70                    | 300           |
| SCMI322513J180KT | 18 $\pm$ 10%  | 35        | 1                       | 10               | 0.70                    | 300           |
| SCMI322513J220KT | 22 $\pm$ 10%  | 35        | 1                       | 10               | 0.75                    | 250           |
| SCMI322513J270KT | 27 $\pm$ 10%  | 35        | 1                       | 10               | 0.75                    | 250           |
| SCMI322513J330KT | 33 $\pm$ 10%  | 35        | 1                       | 10               | 0.80                    | 250           |
| SCMI322513J390KT | 39 $\pm$ 10%  | 35        | 1                       | 10               | 0.80                    | 250           |
| SCMI322513J470KT | 47 $\pm$ 10%  | 35        | 1                       | 10               | 1.00                    | 200           |
| SCMI322513J560MT | 56 $\pm$ 20%  | 35        | 1                       | 5                | 1.20                    | 200           |
| SCMI322513J680MT | 68 $\pm$ 20%  | 35        | 1                       | 5                | 1.30                    | 150           |
| SCMI322513J820MT | 82 $\pm$ 20%  | 35        | 1                       | 5                | 1.50                    | 150           |
| SCMI322513J101MT | 100 $\pm$ 20% | 35        | 1                       | 5                | 1.50                    | 150           |
| SCMI322513J121MT | 120 $\pm$ 20% | 35        | 1                       | 5                | 1.80                    | 150           |

SCMI451616 Series

| Part Number      | L( $\mu$ H)   | Q<br>Min. | L,Q Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max |
|------------------|---------------|-----------|-------------------------|------------------|-------------------------|---------------|
| SCMI451616U1R0KT | 1.0 $\pm$ 10% | 40        | 10                      | 80               | 0.25                    | 500           |
| SCMI451616U1R2KT | 1.2 $\pm$ 10% | 40        | 10                      | 75               | 0.30                    | 500           |
| SCMI451616U1R5KT | 1.5 $\pm$ 10% | 40        | 10                      | 60               | 0.30                    | 500           |
| SCMI451616U1R8KT | 1.8 $\pm$ 10% | 40        | 10                      | 55               | 0.35                    | 450           |
| SCMI451616U2R2KT | 2.2 $\pm$ 10% | 40        | 10                      | 50               | 0.35                    | 400           |
| SCMI451616U2R7KT | 2.7 $\pm$ 10% | 40        | 10                      | 45               | 0.40                    | 400           |
| SCMI451616U3R3KT | 3.3 $\pm$ 10% | 40        | 10                      | 40               | 0.45                    | 400           |
| SCMI451616U3R9KT | 3.9 $\pm$ 10% | 40        | 10                      | 35               | 0.45                    | 400           |
| SCMI451616U4R7KT | 4.7 $\pm$ 10% | 40        | 10                      | 30               | 0.50                    | 300           |

**Electrical Characteristics 电气性能**

## SCMI451616 Series

| Part Number      | L( $\mu$ H)   | Q<br>Min. | L,Q Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max |
|------------------|---------------|-----------|-------------------------|------------------|-------------------------|---------------|
| SCMI451616U5R6KT | 5.6 $\pm$ 10% | 40        | 4                       | 20               | 0.50                    | 300           |
| SCMI451616X6R8KT | 6.8 $\pm$ 10% | 35        | 4                       | 20               | 0.60                    | 300           |
| SCMI451616X8R2KT | 8.2 $\pm$ 10% | 35        | 4                       | 15               | 0.70                    | 250           |
| SCMI451616X100KT | 10 $\pm$ 10%  | 35        | 2                       | 15               | 0.70                    | 250           |

## SCMI453215 Series

| Part Number      | L( $\mu$ H)   | Q<br>Min. | L,Q Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max |
|------------------|---------------|-----------|-------------------------|------------------|-------------------------|---------------|
| SCMI453215U1R0KT | 1.0 $\pm$ 10% | 35        | 10                      | 50               | 0.55                    | 650           |
| SCMI453215U1R2KT | 1.2 $\pm$ 10% | 35        | 10                      | 50               | 0.55                    | 650           |
| SCMI453215U1R5KT | 1.5 $\pm$ 10% | 35        | 10                      | 45               | 0.55                    | 600           |
| SCMI453215U1R8KT | 1.8 $\pm$ 10% | 35        | 10                      | 45               | 0.65                    | 600           |
| SCMI453215U2R2KT | 2.2 $\pm$ 10% | 35        | 10                      | 40               | 0.65                    | 500           |
| SCMI453215U2R7KT | 2.7 $\pm$ 10% | 35        | 10                      | 40               | 0.70                    | 500           |
| SCMI453215U3R3KT | 3.3 $\pm$ 10% | 35        | 10                      | 35               | 0.75                    | 500           |
| SCMI453215U3R9KT | 3.9 $\pm$ 10% | 35        | 10                      | 35               | 0.80                    | 500           |
| SCMI453215U4R7KT | 4.7 $\pm$ 10% | 30        | 10                      | 25               | 0.90                    | 500           |
| SCMI453215U5R6KT | 5.6 $\pm$ 10% | 30        | 4                       | 20               | 0.90                    | 500           |
| SCMI453215U6R8KT | 6.8 $\pm$ 10% | 30        | 4                       | 18               | 1.00                    | 500           |
| SCMI453215X8R2KT | 8.2 $\pm$ 10% | 30        | 4                       | 17               | 1.00                    | 450           |
| SCMI453215X100KT | 10 $\pm$ 10%  | 30        | 2                       | 16               | 1.00                    | 450           |
| SCMI453215X120KT | 12 $\pm$ 10%  | 35        | 2                       | 15               | 1.00                    | 450           |
| SCMI453215J150KT | 15 $\pm$ 10%  | 35        | 1                       | 14               | 1.00                    | 400           |
| SCMI453215J180KT | 18 $\pm$ 10%  | 35        | 1                       | 13               | 1.00                    | 400           |
| SCMI453215J220KT | 22 $\pm$ 10%  | 35        | 1                       | 12               | 1.30                    | 300           |
| SCMI453215J270KT | 27 $\pm$ 10%  | 35        | 1                       | 10               | 1.30                    | 300           |
| SCMI453215J330KT | 33 $\pm$ 10%  | 40        | 1                       | 10               | 1.50                    | 250           |
| SCMI453215J390KT | 39 $\pm$ 10%  | 40        | 1                       | 10               | 1.50                    | 250           |
| SCMI453215J470KT | 47 $\pm$ 10%  | 40        | 1                       | 8                | 1.65                    | 250           |
| SCMI453215J560KT | 56 $\pm$ 10%  | 40        | 1                       | 8                | 1.80                    | 250           |
| SCMI453215J680MT | 68 $\pm$ 20%  | 40        | 1                       | 6                | 2.00                    | 200           |
| SCMI453215J820MT | 82 $\pm$ 20%  | 40        | 1                       | 6                | 2.30                    | 200           |
| SCMI453215J101MT | 100 $\pm$ 20% | 40        | 1                       | 6                | 2.30                    | 150           |
| SCMI453215J121MT | 120 $\pm$ 20% | 40        | 1                       | 6                | 2.50                    | 150           |

**Multilayer Chip Ferrite Large Current Inductor SCMP Series 叠层片式大电流电感 SCMP 系列****Features 特点**

- Compact size and light weight 尺寸小，重量轻
- Excellent solderability and heat resistance for either flow or reflow soldering 良好的可焊性和耐焊性
- No cross coupling between inductors due to magnetic shield 良好的磁屏蔽抗干扰性
- Low RDC and High IDC 低直流电阻和高 IDC 特点

**Applications 应用**

- Cellular platform DC-DC converter circuit 移动设备用 DC-DC 转换器电路
- Portable AV equipment(digital camera, DVD Type) 便携式 AV 设备（数码照相机，DVD 等）
- Cellular platform(handset Type) 移动通讯设备（手机等）
- Memex(computer Type) 信息机器（电脑等）

**Product Identification 产品标识****SCMP 201209 V D 2R2 M T**

① ② ③ ④ ⑤ ⑥ ⑦

① Series name 系列名称

② Dimension 产品尺寸 L×W×T: 【201209: 2.0mm×1.2mm×0.9mm】

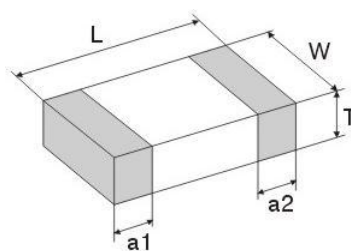
③ Material code 材料代码

④ Series code 系列代码

⑤ Inductance 电感量: 【R47=0.47μH 2R2=2.2μH 100=10μH】

⑥ Tolerance of Inductance 电感量公差: 【M: ±20%】

⑦ Packing Style: 【T: Taping 编带盘装B: Bulk 散装】

**Shapes And Dimensions 外形及尺寸示意图**

| Type          | Dimensions (mm) [inch]  |                         |                         |                         |
|---------------|-------------------------|-------------------------|-------------------------|-------------------------|
|               | L                       | W                       | T                       | a1, a2                  |
| 160808 [0603] | 1.60±0.20 [0.063±0.008] | 0.80±0.20 [0.031±0.008] | 0.80±0.20 [0.031±0.008] | 0.30±0.20 [0.012±0.008] |
| 201209 [0805] | 2.00±0.20 [0.079±0.008] | 1.20±0.20 [0.049±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |
| 201212 [0805] | 2.00±0.20 [0.079±0.008] | 1.20±0.20 [0.049±0.008] | 1.20±0.20 [0.047±0.008] | 0.50±0.30 [0.02±0.012]  |
| 252009 [1008] | 2.50±0.20 [0.098±0.008] | 2.00±0.20 [0.079±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |
| 321609 [1206] | 3.20±0.20 [0.126±0.008] | 1.60±0.20 [0.063±0.008] | 0.90±0.20 [0.035±0.008] | 0.50±0.30 [0.02±0.012]  |

**Electrical Characteristics 电气性能**

## SCMP201209-D Series

| Part Number       | Inductance<br>( $\mu$ H) | L Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ ) Max. | Rated Current<br>Max.(mA) |
|-------------------|--------------------------|-----------------------|------------------|----------------------|---------------------------|
| SCMP201209VD47NMT | 0.047 $\pm$ 20%          | 1                     | 280              | 0.10                 | 1100                      |
| SCMP201209VD56NMT | 0.056 $\pm$ 20%          | 1                     | 280              | 0.10                 | 1100                      |
| SCMP201209VD68NMT | 0.068 $\pm$ 20%          | 1                     | 250              | 0.15                 | 1100                      |
| SCMP201209VD82NMT | 0.082 $\pm$ 20%          | 1                     | 250              | 0.15                 | 1100                      |
| SCMP201209VDR10MT | 0.10 $\pm$ 20%           | 1                     | 210              | 0.15                 | 1100                      |
| SCMP201209VDR12MT | 0.12 $\pm$ 20%           | 1                     | 200              | 0.15                 | 1100                      |
| SCMP201209VDR15MT | 0.15 $\pm$ 20%           | 1                     | 175              | 0.15                 | 1100                      |
| SCMP201209VDR18MT | 0.18 $\pm$ 20%           | 1                     | 160              | 0.15                 | 1100                      |
| SCMP201209VDR22MT | 0.22 $\pm$ 20%           | 1                     | 150              | 0.15                 | 1100                      |
| SCMP201209VDR27MT | 0.27 $\pm$ 20%           | 1                     | 130              | 0.15                 | 1100                      |
| SCMP201209VDR33MT | 0.33 $\pm$ 20%           | 1                     | 120              | 0.15                 | 1100                      |
| SCMP201209VDR39MT | 0.39 $\pm$ 20%           | 1                     | 110              | 0.15                 | 1100                      |
| SCMP201209VDR47MT | 0.47 $\pm$ 20%           | 1                     | 100              | 0.15                 | 1100                      |
| SCMP201209VDR56MT | 0.56 $\pm$ 20%           | 1                     | 100              | 0.36                 | 800                       |
| SCMP201209VDR68MT | 0.68 $\pm$ 20%           | 1                     | 95               | 0.36                 | 800                       |
| SCMP201209VDR82MT | 0.82 $\pm$ 20%           | 1                     | 90               | 0.36                 | 800                       |
| SCMP201209UD1R0MT | 1.0 $\pm$ 20%            | 1                     | 75               | 0.24                 | 800                       |
| SCMP201209UD1R2MT | 1.2 $\pm$ 20%            | 1                     | 65               | 0.24                 | 800                       |
| SCMP201209UD1R5MT | 1.5 $\pm$ 20%            | 1                     | 60               | 0.30                 | 700                       |
| SCMP201209UD1R8MT | 1.8 $\pm$ 20%            | 1                     | 55               | 0.36                 | 600                       |
| SCMP201209UD2R2MT | 2.2 $\pm$ 20%            | 1                     | 50               | 0.36                 | 600                       |
| SCMP201209UD2R7MT | 2.7 $\pm$ 20%            | 1                     | 45               | 0.36                 | 600                       |
| SCMP201209UD3R3MT | 3.3 $\pm$ 20%            | 1                     | 41               | 0.40                 | 350                       |
| SCMP201209UD3R9MT | 3.9 $\pm$ 20%            | 1                     | 38               | 0.40                 | 350                       |
| SCMP201209UD4R7MT | 4.7 $\pm$ 20%            | 1                     | 35               | 0.40                 | 350                       |
| SCMP201209XD5R6MT | 5.6 $\pm$ 20%            | 1                     | 32               | 0.50                 | 250                       |
| SCMP201209XD6R8MT | 6.8 $\pm$ 20%            | 1                     | 29               | 0.50                 | 250                       |
| SCMP201209XD8R2MT | 8.2 $\pm$ 20%            | 1                     | 26               | 0.56                 | 250                       |
| SCMP201209XD100MT | 10 $\pm$ 20%             | 1                     | 24               | 0.70                 | 250                       |
| SCMP201209XD120MT | 12 $\pm$ 20%             | 1                     | 22               | 0.70                 | 250                       |
| SCMP201209JD150MT | 15 $\pm$ 20%             | 1                     | 19               | 0.85                 | 100                       |

**Electrical Characteristics 电气性能**

## SCMP321609-D Series

| Part Number       | Inductance<br>( $\mu$ H) | L Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ ) Max. | Rated Current<br>Max.(mA) |
|-------------------|--------------------------|-----------------------|------------------|----------------------|---------------------------|
| SCMP321609UD1R0MT | 1.0 $\pm$ 20%            | 1                     | 60               | 0.15                 | 1200                      |
| SCMP321609UD1R2MT | 1.2 $\pm$ 20%            | 1                     | 65               | 0.15                 | 1200                      |
| SCMP321609UD1R5MT | 1.5 $\pm$ 20%            | 1                     | 60               | 0.17                 | 1000                      |
| SCMP321609UD1R8MT | 1.8 $\pm$ 20%            | 1                     | 55               | 0.24                 | 900                       |
| SCMP321609UD2R2MT | 2.2 $\pm$ 20%            | 1                     | 50               | 0.24                 | 900                       |
| SCMP321609UD2R7MT | 2.7 $\pm$ 20%            | 1                     | 45               | 0.30                 | 800                       |
| SCMP321609UD3R3MT | 3.3 $\pm$ 20%            | 1                     | 41               | 0.30                 | 800                       |
| SCMP321609UD3R9MT | 3.9 $\pm$ 20%            | 1                     | 38               | 0.38                 | 700                       |
| SCMP321609UD4R7MT | 4.7 $\pm$ 20%            | 1                     | 35               | 0.38                 | 700                       |
| SCMP321609UD5R6MT | 5.6 $\pm$ 20%            | 1                     | 32               | 0.45                 | 500                       |
| SCMP321609XD6R8MT | 6.8 $\pm$ 20%            | 1                     | 29               | 0.45                 | 500                       |
| SCMP321609XD8R2MT | 8.2 $\pm$ 20%            | 1                     | 26               | 0.55                 | 300                       |
| SCMP321609XD100MT | 10 $\pm$ 20%             | 1                     | 24               | 0.55                 | 300                       |
| SCMP321609XD120MT | 12 $\pm$ 20%             | 1                     | 22               | 0.55                 | 300                       |
| SCMP321609JD150MT | 15 $\pm$ 20%             | 1                     | 19               | 0.65                 | 100                       |
| SCMP321609JD180MT | 18 $\pm$ 20%             | 1                     | 18               | 0.65                 | 100                       |

## SCMP160808-E Series

| Part Number       | Inductance<br>( $\mu$ H) | L Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ ) Max. | Rated Current<br>Max.(mA) |
|-------------------|--------------------------|-----------------------|------------------|----------------------|---------------------------|
| SCMP160808VE47NMT | 0.047 $\pm$ 20%          | 1                     | 260              | 0.12                 | 150                       |
| SCMP160808VE56NMT | 0.056 $\pm$ 20%          | 1                     | 260              | 0.12                 | 150                       |
| SCMP160808VE68NMT | 0.068 $\pm$ 20%          | 1                     | 250              | 0.12                 | 150                       |
| SCMP160808VE82NMT | 0.082 $\pm$ 20%          | 1                     | 245              | 0.12                 | 150                       |
| SCMP160808VER10MT | 0.10 $\pm$ 20%           | 1                     | 240              | 0.15                 | 150                       |
| SCMP160808VER12MT | 0.12 $\pm$ 20%           | 1                     | 205              | 0.20                 | 150                       |
| SCMP160808VER15MT | 0.15 $\pm$ 20%           | 1                     | 180              | 0.20                 | 150                       |
| SCMP160808VER18MT | 0.18 $\pm$ 20%           | 1                     | 165              | 0.20                 | 150                       |
| SCMP160808VER22MT | 0.22 $\pm$ 20%           | 1                     | 150              | 0.25                 | 150                       |
| SCMP160808VER27MT | 0.27 $\pm$ 20%           | 1                     | 136              | 0.30                 | 100                       |
| SCMP160808VER33MT | 0.33 $\pm$ 20%           | 1                     | 125              | 0.30                 | 100                       |
| SCMP160808VER39MT | 0.39 $\pm$ 20%           | 1                     | 110              | 0.35                 | 100                       |
| SCMP160808VER47MT | 0.47 $\pm$ 20%           | 1                     | 105              | 0.45                 | 100                       |
| SCMP160808VER56MT | 0.56 $\pm$ 20%           | 1                     | 95               | 0.45                 | 100                       |
| SCMP160808VER68MT | 0.68 $\pm$ 20%           | 1                     | 90               | 0.55                 | 100                       |
| SCMP160808VER82MT | 0.82 $\pm$ 20%           | 1                     | 85               | 0.60                 | 100                       |
| SCMP160808UE1R0MT | 1.0 $\pm$ 20%            | 1                     | 75               | 0.30                 | 150                       |

**Electrical Characteristics 电气性能**

## SCMP160808-E Series

| Part Number       | Inductance<br>( $\mu$ H) | L Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ ) Max. | Rated Current<br>Max.(mA) |
|-------------------|--------------------------|-----------------------|------------------|----------------------|---------------------------|
| SCMP160808UE1R2MT | 1.2 $\pm$ 20%            | 1                     | 65               | 0.30                 | 150                       |
| SCMP160808UE1R5MT | 1.5 $\pm$ 20%            | 1                     | 60               | 0.35                 | 120                       |
| SCMP160808UE1R8MT | 1.8 $\pm$ 20%            | 1                     | 55               | 0.40                 | 120                       |
| SCMP160808UE2R2MT | 2.2 $\pm$ 20%            | 1                     | 50               | 0.50                 | 120                       |
| SCMP160808UE2R7MT | 2.7 $\pm$ 20%            | 1                     | 45               | 0.60                 | 100                       |
| SCMP160808XE3R3MT | 3.3 $\pm$ 20%            | 1                     | 40               | 0.65                 | 100                       |
| SCMP160808XE3R9MT | 3.9 $\pm$ 20%            | 1                     | 35               | 0.70                 | 80                        |
| SCMP160808XE4R7MT | 4.7 $\pm$ 20%            | 1                     | 33               | 0.75                 | 80                        |
| SCMP160808JE5R6MT | 5.6 $\pm$ 20%            | 1                     | 22               | 0.90                 | 60                        |
| SCMP160808JE6R8MT | 6.8 $\pm$ 20%            | 1                     | 20               | 0.90                 | 60                        |
| SCMP160808JE8R2MT | 8.2 $\pm$ 20%            | 1                     | 18               | 1.05                 | 60                        |
| SCMP160808JE100MT | 10 $\pm$ 20%             | 1                     | 17               | 1.15                 | 60                        |
| SCMP160808JE120MT | 12 $\pm$ 20%             | 1                     | 15               | 1.25                 | 60                        |

## SCMP201209-E Series

| Part Number       | Inductance<br>( $\mu$ H) | L Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ ) Max. | Rated Current<br>Max.(mA) |
|-------------------|--------------------------|-----------------------|------------------|----------------------|---------------------------|
| SCMP201209VE47NMT | 0.047 $\pm$ 20%          | 1                     | 320              | 0.15                 | 350                       |
| SCMP201209VE56NMT | 0.056 $\pm$ 20%          | 1                     | 320              | 0.15                 | 350                       |
| SCMP201209VE68NMT | 0.068 $\pm$ 20%          | 1                     | 280              | 0.20                 | 350                       |
| SCMP201209VE82NMT | 0.082 $\pm$ 20%          | 1                     | 280              | 0.20                 | 350                       |
| SCMP201209VER10MT | 0.10 $\pm$ 20%           | 1                     | 235              | 0.20                 | 350                       |
| SCMP201209VER12MT | 0.12 $\pm$ 20%           | 1                     | 220              | 0.20                 | 350                       |
| SCMP201209VER15MT | 0.15 $\pm$ 20%           | 1                     | 200              | 0.20                 | 350                       |
| SCMP201209VER18MT | 0.18 $\pm$ 20%           | 1                     | 185              | 0.25                 | 300                       |
| SCMP201209VER22MT | 0.22 $\pm$ 20%           | 1                     | 170              | 0.25                 | 300                       |
| SCMP201209VER27MT | 0.27 $\pm$ 20%           | 1                     | 150              | 0.25                 | 300                       |
| SCMP201209VER33MT | 0.33 $\pm$ 20%           | 1                     | 145              | 0.25                 | 300                       |
| SCMP201209VER39MT | 0.39 $\pm$ 20%           | 1                     | 135              | 0.30                 | 250                       |
| SCMP201209VER47MT | 0.47 $\pm$ 20%           | 1                     | 125              | 0.30                 | 250                       |
| SCMP201209VER56MT | 0.56 $\pm$ 20%           | 1                     | 115              | 0.36                 | 200                       |
| SCMP201209VER68MT | 0.68 $\pm$ 20%           | 1                     | 105              | 0.36                 | 200                       |
| SCMP201209VER82MT | 0.82 $\pm$ 20%           | 1                     | 100              | 0.36                 | 200                       |
| SCMP201209UE1R0MT | 1.0 $\pm$ 20%            | 1                     | 75               | 0.26                 | 220                       |
| SCMP201209UE1R2MT | 1.2 $\pm$ 20%            | 1                     | 65               | 0.26                 | 220                       |
| SCMP201209UE1R5MT | 1.5 $\pm$ 20%            | 1                     | 60               | 0.30                 | 180                       |

**Electrical Characteristics 电气性能**

## SCMP201209-E Series

| Part Number       | Inductance<br>( $\mu$ H) | L Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ ) Max. | Rated Current<br>Max.(mA) |
|-------------------|--------------------------|-----------------------|------------------|----------------------|---------------------------|
| SCMP201209UE1R8MT | 1.8 $\pm$ 20%            | 1                     | 55               | 0.30                 | 180                       |
| SCMP201209UE2R2MT | 2.2 $\pm$ 20%            | 1                     | 50               | 0.36                 | 150                       |
| SCMP201209UE2R7MT | 2.7 $\pm$ 20%            | 1                     | 45               | 0.36                 | 150                       |
| SCMP201209UE3R3MT | 3.3 $\pm$ 20%            | 1                     | 41               | 0.40                 | 120                       |
| SCMP201209UE3R9MT | 3.9 $\pm$ 20%            | 1                     | 38               | 0.40                 | 120                       |
| SCMP201209UE4R7MT | 4.7 $\pm$ 20%            | 1                     | 35               | 0.40                 | 120                       |
| SCMP201209XE5R6MT | 5.6 $\pm$ 20%            | 1                     | 32               | 0.60                 | 100                       |
| SCMP201209XE6R8MT | 6.8 $\pm$ 20%            | 1                     | 29               | 0.60                 | 100                       |
| SCMP201209XE8R2MT | 8.2 $\pm$ 20%            | 1                     | 26               | 0.65                 | 100                       |
| SCMP201209XE100MT | 10 $\pm$ 20%             | 1                     | 24               | 0.65                 | 100                       |
| SCMP201209XE120MT | 12 $\pm$ 20%             | 1                     | 22               | 0.65                 | 100                       |
| SCMP201209JE150MT | 15 $\pm$ 20%             | 1                     | 19               | 0.75                 | 50                        |
| SCMP201209JE180MT | 18 $\pm$ 20%             | 1                     | 18               | 0.75                 | 50                        |
| SCMP201209JE220MT | 22 $\pm$ 20%             | 1                     | 16               | 0.75                 | 50                        |

## SCMP321609-E Series

| Part Number       | Inductance<br>( $\mu$ H) | L Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ ) Max. | Rated Current<br>Max.(mA) |
|-------------------|--------------------------|-----------------------|------------------|----------------------|---------------------------|
| SCMP321609VE47NMT | 0.047 $\pm$ 20%          | 1                     | 320              | 0.15                 | 450                       |
| SCMP321609VE56NMT | 0.056 $\pm$ 20%          | 1                     | 320              | 0.15                 | 450                       |
| SCMP321609VE68NMT | 0.068 $\pm$ 20%          | 1                     | 280              | 0.20                 | 450                       |
| SCMP321609VE82NMT | 0.082 $\pm$ 20%          | 1                     | 280              | 0.20                 | 450                       |
| SCMP321609VER10MT | 0.10 $\pm$ 20%           | 1                     | 235              | 0.20                 | 350                       |
| SCMP321609VER12MT | 0.12 $\pm$ 20%           | 1                     | 220              | 0.20                 | 350                       |
| SCMP321609VER15MT | 0.15 $\pm$ 20%           | 1                     | 200              | 0.20                 | 350                       |
| SCMP321609VER18MT | 0.18 $\pm$ 20%           | 1                     | 185              | 0.20                 | 350                       |
| SCMP321609VER22MT | 0.22 $\pm$ 20%           | 1                     | 170              | 0.20                 | 350                       |
| SCMP321609VER27MT | 0.27 $\pm$ 20%           | 1                     | 150              | 0.20                 | 350                       |
| SCMP321609VER33MT | 0.33 $\pm$ 20%           | 1                     | 145              | 0.20                 | 350                       |
| SCMP321609VER39MT | 0.39 $\pm$ 20%           | 1                     | 135              | 0.30                 | 220                       |
| SCMP321609VER47MT | 0.47 $\pm$ 20%           | 1                     | 125              | 0.30                 | 220                       |
| SCMP321609VER56MT | 0.56 $\pm$ 20%           | 1                     | 115              | 0.30                 | 220                       |
| SCMP321609VER68MT | 0.68 $\pm$ 20%           | 1                     | 105              | 0.30                 | 220                       |
| SCMP321609VER82MT | 0.82 $\pm$ 20%           | 1                     | 100              | 0.30                 | 220                       |
| SCMP321609UE1R0MT | 1.0 $\pm$ 20%            | 1                     | 75               | 0.20                 | 250                       |
| SCMP321609UE1R2MT | 1.2 $\pm$ 20%            | 1                     | 65               | 0.20                 | 250                       |
| SCMP321609UE1R5MT | 1.5 $\pm$ 20%            | 1                     | 60               | 0.25                 | 250                       |

**Electrical Characteristics 电气性能**

## SCMP321609-E Series

| Part Number       | Inductance<br>( $\mu$ H) | L Test Freq.<br>(MHz) | SRF(MHz)<br>Min. | RDC( $\Omega$ ) Max. | Rated Current<br>Max.(mA) |
|-------------------|--------------------------|-----------------------|------------------|----------------------|---------------------------|
| SCMP321609UE1R8MT | 1.8 $\pm$ 20%            | 1                     | 55               | 0.25                 | 250                       |
| SCMP321609UE2R2MT | 2.2 $\pm$ 20%            | 1                     | 50               | 0.30                 | 200                       |
| SCMP321609UE2R7MT | 2.7 $\pm$ 20%            | 1                     | 45               | 0.30                 | 200                       |
| SCMP321609UE3R3MT | 3.3 $\pm$ 20%            | 1                     | 41               | 0.30                 | 200                       |
| SCMP321609UE3R9MT | 3.9 $\pm$ 20%            | 1                     | 38               | 0.35                 | 150                       |
| SCMP321609UE4R7MT | 4.7 $\pm$ 20%            | 1                     | 35               | 0.35                 | 150                       |
| SCMP321609UE5R6MT | 5.6 $\pm$ 20%            | 1                     | 32               | 0.50                 | 100                       |
| SCMP321609XE6R8MT | 6.8 $\pm$ 20%            | 1                     | 29               | 0.50                 | 100                       |
| SCMP321609XE8R2MT | 8.2 $\pm$ 20%            | 1                     | 26               | 0.50                 | 100                       |
| SCMP321609XE100MT | 10 $\pm$ 20%             | 1                     | 24               | 0.50                 | 100                       |
| SCMP321609XE120MT | 12 $\pm$ 20%             | 1                     | 22               | 0.60                 | 100                       |
| SCMP321609JE150MT | 15 $\pm$ 20%             | 1                     | 19               | 0.80                 | 50                        |
| SCMP321609JE180MT | 18 $\pm$ 20%             | 1                     | 18               | 0.80                 | 50                        |
| SCMP321609JE220MT | 22 $\pm$ 20%             | 1                     | 16               | 1.00                 | 50                        |
| SCMP321609JE270MT | 27 $\pm$ 20%             | 1                     | 14               | 1.00                 | 50                        |



## Multilayer Chip High Frequency Inductor SCHF Series叠层片式高频电感SCHF系列

### Features特点

- Multilayer monolithic construction yields high reliability  
独石结构、高可靠性
- High self-resonant frequency  
高自谐振频率
- Excellent solderability and heat resistance for either flow or reflow soldering  
良好的可焊性和耐焊性



### Applications应用

- High frequency circuits of telecommunication. 通讯产品的射频模块
- Mobile phones such as GSM, CDMA, PDC, etc. GSM、CDMA、PDC 手机
- "Bluetooth" 蓝牙模块
- Other High frequency circuits in general 其它高频线路应用中

### Product Identification 产品标识

SCHF 160808 H 10N J T

① ② ③ ④ ⑤ ⑥

① Series name 系列名称

② Dimension 产品尺寸 L×W×T: 【1608:1.6mm×0.8mm×0.8mm】

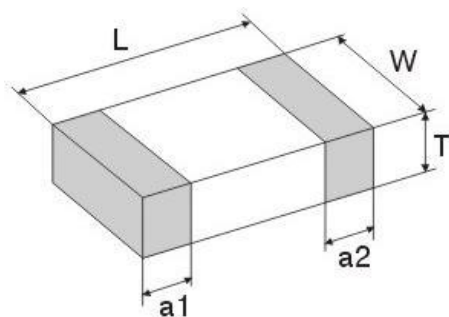
③ Material code 材料代码

④ Inductance 电感量: 【3N3=3.3nH 10N=10nH R10=100nH】

⑤ Tolerance of Inductance 电感量公差: 【S:±0.3nH D:±0.5nH J: ±5% K: ±10%】

⑥ Packing Style: 【T: Taping 编带盘装 B: Bulk 散装】

### Shapes And Dimensions 外形及尺寸示意图



| Type         | Dimensions (mm)[inch]  |                        |                        |                        |
|--------------|------------------------|------------------------|------------------------|------------------------|
|              | L                      | W                      | T                      | a1, a2                 |
| 060303[0201] | 0.6±0.03[0.024±0.001]  | 0.3±0.03[0.012±0.001]  | 0.3±0.03[0.012±0.001]  | 0.15±0.05[0.006±0.002] |
| 100505[0402] | 1.00±0.15[0.040±0.006] | 0.50±0.15[0.020±0.006] | 0.50±0.15[0.020±0.006] | 0.25±0.10[0.010±0.004] |
| 160808[0603] | 1.60±0.20[0.063±0.008] | 0.80±0.20[0.031±0.008] | 0.80±0.20[0.031±0.008] | 0.30±0.20[0.012±0.008] |
| 201209[0805] | 2.00±0.20[0.079±0.008] | 1.20±0.20[0.047±0.008] | 0.90±0.20[0.035±0.008] | 0.50±0.30[0.020±0.012] |

**Electrical Characteristics 电气性能**

## SCHF060303 Series

| Part Number      | L(nH)   | L,Q Test Freq.<br>(MHz) | Q<br>Min. | SRF(MHz)<br>Min. | RDC(Ω)<br>Max. | Ir(mA)<br>Max. |
|------------------|---------|-------------------------|-----------|------------------|----------------|----------------|
| SCHF060303H0N6CT | 0.6±0.2 | 500                     | 13        | 10000            | 0.06           | 600            |
| SCHF060303H0N7CT | 0.7±0.2 | 500                     | 13        | 10000            | 0.06           | 550            |
| SCHF060303H0N8CT | 0.8±0.2 | 500                     | 13        | 10000            | 0.07           | 550            |
| SCHF060303H1N0ST | 1.0±0.3 | 500                     | 13        | 10000            | 0.08           | 520            |
| SCHF060303H1N1ST | 1.1±0.3 | 500                     | 13        | 10000            | 0.11           | 440            |
| SCHF060303H1N2ST | 1.2±0.3 | 500                     | 13        | 10000            | 0.12           | 440            |
| SCHF060303H1N4ST | 1.4±0.3 | 500                     | 13        | 10000            | 0.12           | 430            |
| SCHF060303H1N5ST | 1.5±0.3 | 500                     | 13        | 10000            | 0.12           | 420            |
| SCHF060303H1N6ST | 1.6±0.3 | 500                     | 13        | 10000            | 0.13           | 410            |
| SCHF060303H1N8ST | 1.8±0.3 | 500                     | 13        | 10000            | 0.15           | 380            |
| SCHF060303H2N0ST | 2.0±0.3 | 500                     | 13        | 10000            | 0.20           | 360            |
| SCHF060303H2N2ST | 2.2±0.3 | 500                     | 13        | 10000            | 0.20           | 350            |
| SCHF060303H2N4ST | 2.4±0.3 | 500                     | 13        | 10000            | 0.22           | 330            |
| SCHF060303H2N6ST | 2.6±0.3 | 500                     | 13        | 9400             | 0.22           | 320            |
| SCHF060303H2N7ST | 2.7±0.3 | 500                     | 13        | 9200             | 0.23           | 300            |
| SCHF060303H3N0ST | 3.0±0.3 | 500                     | 13        | 8600             | 0.26           | 280            |
| SCHF060303H3N3ST | 3.3±0.3 | 500                     | 13        | 8100             | 0.30           | 270            |
| SCHF060303H3N6ST | 3.6±0.3 | 500                     | 13        | 7700             | 0.38           | 240            |
| SCHF060303H3N9ST | 3.9±0.3 | 500                     | 13        | 7400             | 0.42           | 230            |
| SCHF060303H4N3ST | 4.3±0.3 | 500                     | 13        | 6800             | 0.44           | 220            |
| SCHF060303H4N7ST | 4.7±0.3 | 500                     | 13        | 6200             | 0.45           | 220            |
| SCHF060303H5N1ST | 5.1±0.3 | 500                     | 13        | 5900             | 0.46           | 210            |
| SCHF060303H5N6ST | 5.6±0.3 | 500                     | 13        | 5500             | 0.46           | 210            |
| SCHF060303H6N2ST | 6.2±0.3 | 500                     | 13        | 5100             | 0.48           | 210            |
| SCHF060303H6N8JT | 6.8±5%  | 500                     | 13        | 4900             | 0.50           | 200            |
| SCHF060303H7N5JT | 7.5±5%  | 500                     | 13        | 4700             | 0.50           | 200            |
| SCHF060303H8N2JT | 8.2±5%  | 500                     | 13        | 4300             | 0.56           | 190            |
| SCHF060303H9N1JT | 9.1±5%  | 500                     | 13        | 4100             | 0.72           | 170            |
| SCHF060303H10NJT | 10±5%   | 500                     | 13        | 3800             | 0.80           | 160            |
| SCHF060303H12NJT | 12±5%   | 500                     | 13        | 3400             | 0.80           | 160            |
| SCHF060303H15NJT | 15±5%   | 500                     | 13        | 2600             | 0.85           | 160            |
| SCHF060303H18NJT | 18±5%   | 500                     | 13        | 2300             | 1.00           | 140            |
| SCHF060303H22NJT | 22±5%   | 500                     | 13        | 1900             | 1.20           | 130            |
| SCHF060303H27NJT | 27±5%   | 500                     | 13        | 1800             | 1.60           | 120            |
| SCHF060303H33NJT | 33±5%   | 300                     | 13        | 1800             | 2.20           | 110            |
| SCHF060303H39NJT | 39±5%   | 300                     | 11        | 1600             | 2.30           | 100            |
| SCHF060303H47NJT | 47±5%   | 300                     | 11        | 1500             | 2.60           | 100            |
| SCHF060303H56NJT | 56±5%   | 300                     | 11        | 1400             | 2.80           | 80             |
| SCHF060303H68NJT | 68±5%   | 300                     | 11        | 1200             | 3.20           | 80             |

**Electrical Characteristics 电气性能**

## SCHF060303 Series

| Part Number      | L(nH)  | L,Q Test Freq.<br>(MHz) | Q<br>Min. | SRF(MHz)<br>Min. | RDC(Ω)<br>Max. | Ir(mA)<br>Max. |
|------------------|--------|-------------------------|-----------|------------------|----------------|----------------|
| SCHF060303H82NJT | 82±5%  | 300                     | 10        | 1100             | 3.80           | 70             |
| SCHF060303HR10JT | 100±5% | 300                     | 10        | 1000             | 4.00           | 60             |
| SCHF060303HR12JT | 120±5% | 300                     | 9         | 1000             | 5.00           | 50             |

## SCHF100505 Series

| Part Number      | L(nH)   | L,Q Test Freq.<br>(MHz) | Q<br>Min. | SRF(MHz)<br>Min. | RDC(Ω)<br>Max. | Ir(mA)<br>Max. |
|------------------|---------|-------------------------|-----------|------------------|----------------|----------------|
| SCHF100505H1N0ST | 1.0±0.3 | 100                     | 7         | 10000            | 0.1            | 400            |
| SCHF100505H1N1ST | 1.1±0.3 | 100                     | 7         | 10000            | 0.1            | 400            |
| SCHF100505H1N2ST | 1.2±0.3 | 100                     | 7         | 10000            | 0.1            | 400            |
| SCHF100505H1N3ST | 1.3±0.3 | 100                     | 7         | 10000            | 0.1            | 400            |
| SCHF100505H1N5ST | 1.5±0.3 | 100                     | 7         | 6000             | 0.1            | 300            |
| SCHF100505H1N6ST | 1.6±0.3 | 100                     | 7         | 6000             | 0.1            | 300            |
| SCHF100505H1N8ST | 1.8±0.3 | 100                     | 7         | 6000             | 0.1            | 300            |
| SCHF100505H2N0ST | 2.0±0.3 | 100                     | 7         | 6000             | 0.2            | 300            |
| SCHF100505H2N2ST | 2.2±0.3 | 100                     | 7         | 6000             | 0.2            | 300            |
| SCHF100505H2N4ST | 2.4±0.3 | 100                     | 7         | 6000             | 0.2            | 300            |
| SCHF100505H2N7ST | 2.7±0.3 | 100                     | 7         | 6000             | 0.2            | 300            |
| SCHF100505H3N0ST | 3.0±0.3 | 100                     | 7         | 6000             | 0.2            | 300            |
| SCHF100505H3N3ST | 3.3±0.3 | 100                     | 7         | 6000             | 0.2            | 300            |
| SCHF100505H3N6ST | 3.6±0.3 | 100                     | 7         | 4000             | 0.2            | 300            |
| SCHF100505H3N9ST | 3.9±0.3 | 100                     | 7         | 4000             | 0.2            | 300            |
| SCHF100505H4N3ST | 4.3±0.3 | 100                     | 7         | 4000             | 0.2            | 300            |
| SCHF100505H4N7ST | 4.7±0.3 | 100                     | 7         | 4000             | 0.2            | 300            |
| SCHF100505H5N1ST | 5.1±0.3 | 100                     | 7         | 4000             | 0.3            | 300            |
| SCHF100505H5N6ST | 5.6±0.3 | 100                     | 7         | 4000             | 0.3            | 300            |
| SCHF100505H6N2ST | 6.2±0.3 | 100                     | 7         | 3900             | 0.3            | 300            |
| SCHF100505H6N8JT | 6.8±5%  | 100                     | 7         | 3900             | 0.3            | 300            |
| SCHF100505H7N5JT | 7.5±5%  | 100                     | 7         | 3700             | 0.4            | 300            |
| SCHF100505H8N2JT | 8.2±5%  | 100                     | 7         | 3600             | 0.4            | 300            |
| SCHF100505H9N1JT | 9.1±5%  | 100                     | 7         | 3400             | 0.4            | 300            |
| SCHF100505H10NJT | 10±5%   | 100                     | 7         | 3200             | 0.4            | 300            |
| SCHF100505H12NJT | 12±5%   | 100                     | 8         | 2700             | 0.5            | 300            |
| SCHF100505H15NJT | 15±5%   | 100                     | 8         | 2300             | 0.5            | 300            |
| SCHF100505H18NJT | 18±5%   | 100                     | 8         | 2100             | 0.6            | 300            |
| SCHF100505H20NJT | 20±5%   | 100                     | 8         | 2000             | 0.6            | 300            |
| SCHF100505H22NJT | 22±5%   | 100                     | 8         | 1900             | 0.6            | 300            |
| SCHF100505H27NJT | 27±5%   | 100                     | 8         | 1600             | 0.7            | 300            |

**Electrical Characteristics 电气性能**

SCHF100505 Series

| Part Number      | L(nH)  | L,Q Test Freq.<br>(MHz) | Q<br>Min. | SRF(MHz)<br>Min. | RDC(Ω)<br>Max. | Ir(mA)<br>Max. |
|------------------|--------|-------------------------|-----------|------------------|----------------|----------------|
| SCHF100505H33NJT | 33±5%  | 100                     | 8         | 1300             | 0.8            | 200            |
| SCHF100505H39NJT | 39±5%  | 100                     | 8         | 1200             | 1.0            | 200            |
| SCHF100505H47NJT | 47±5%  | 100                     | 8         | 1100             | 1.1            | 200            |
| SCHF100505H56NJT | 56±5%  | 100                     | 8         | 750              | 1.2            | 200            |
| SCHF100505H68NJT | 68±5%  | 100                     | 8         | 750              | 1.4            | 180            |
| SCHF100505H82NJT | 82±5%  | 100                     | 8         | 750              | 2.4            | 150            |
| SCHF100505HR10JT | 100±5% | 100                     | 8         | 700              | 2.6            | 150            |
| SCHF100505HR12JT | 120±5% | 100                     | 8         | 600              | 2.8            | 150            |
| SCHF100505HR15JT | 150±5% | 100                     | 8         | 550              | 3.2            | 100            |
| SCHF100505HR18JT | 180±5% | 100                     | 8         | 500              | 3.7            | 100            |
| SCHF100505HR22JT | 220±5% | 100                     | 8         | 450              | 4.0            | 100            |

SCHF160808 Series

| Part Number      | L(nH)   | L,Q Test Freq.<br>(MHz) | Q<br>Min. | SRF(MHz)<br>Min. | RDC(Ω)<br>Max. | Ir(mA)<br>Max. |
|------------------|---------|-------------------------|-----------|------------------|----------------|----------------|
| SCHF160808H1N0ST | 1.0±0.3 | 100                     | 8         | 10000            | 0.05           | 500            |
| SCHF160808H1N2ST | 1.2±0.3 | 100                     | 8         | 10000            | 0.10           | 500            |
| SCHF160808H1N5ST | 1.5±0.3 | 100                     | 8         | 10000            | 0.10           | 400            |
| SCHF160808H1N8ST | 1.8±0.3 | 100                     | 8         | 9800             | 0.12           | 400            |
| SCHF160808H2N2ST | 2.2±0.3 | 100                     | 8         | 7600             | 0.20           | 400            |
| SCHF160808H2N7ST | 2.7±0.3 | 100                     | 8         | 7000             | 0.20           | 400            |
| SCHF160808H3N3ST | 3.3±0.3 | 100                     | 8         | 6200             | 0.20           | 400            |
| SCHF160808H3N9ST | 3.9±0.3 | 100                     | 8         | 5600             | 0.25           | 400            |
| SCHF160808H4N7ST | 4.7±0.3 | 100                     | 8         | 4800             | 0.30           | 400            |
| SCHF160808H5N6ST | 5.6±0.3 | 100                     | 8         | 4600             | 0.30           | 400            |
| SCHF160808H6N8JT | 6.8±5%  | 100                     | 8         | 4200             | 0.35           | 400            |
| SCHF160808H8N2JT | 8.2±5%  | 100                     | 8         | 3600             | 0.35           | 400            |
| SCHF160808H10NJT | 10±5%   | 100                     | 8         | 3200             | 0.40           | 300            |
| SCHF160808H12NJT | 12±5%   | 100                     | 8         | 2800             | 0.40           | 300            |
| SCHF160808H15NJT | 15±5%   | 100                     | 8         | 2600             | 0.45           | 300            |
| SCHF160808H18NJT | 18±5%   | 100                     | 8         | 2400             | 0.60           | 300            |
| SCHF160808H22NJT | 22±5%   | 100                     | 8         | 2000             | 0.60           | 300            |
| SCHF160808H27NJT | 27±5%   | 100                     | 8         | 1900             | 0.80           | 300            |
| SCHF160808H33NJT | 33±5%   | 100                     | 8         | 1600             | 0.80           | 300            |
| SCHF160808H39NJT | 39±5%   | 100                     | 8         | 1400             | 1.00           | 300            |
| SCHF160808H47NJT | 47±5%   | 100                     | 8         | 1200             | 1.00           | 200            |
| SCHF160808H56NJT | 56±5%   | 100                     | 8         | 1000             | 1.00           | 200            |
| SCHF160808H68NJT | 68±5%   | 100                     | 8         | 900              | 1.00           | 200            |

**Electrical Characteristics 电气性能**

SCHF160808 Series

| Part Number      | L(nH)   | L,Q Test Freq.<br>(MHz) | Q<br>Min. | SRF(MHz)<br>Min. | RDC(Ω)<br>Max. | Ir(mA)<br>Max. |
|------------------|---------|-------------------------|-----------|------------------|----------------|----------------|
| SCHF160808H82NJT | 82±5%   | 100                     | 8         | 800              | 1.00           | 200            |
| SCHF160808HR10JT | 100±5%  | 100                     | 8         | 700              | 1.40           | 200            |
| SCHF160808HR12JT | 120±5%  | 50                      | 8         | 600              | 1.60           | 150            |
| SCHF160808HR15JT | 150±5%  | 50                      | 8         | 500              | 1.80           | 150            |
| SCHF160808HR18JT | 180±5%  | 50                      | 8         | 500              | 1.80           | 150            |
| SCHF160808HR22JT | 220±5%  | 50                      | 8         | 350              | 2.40           | 150            |
| SCHF160808HR27JT | 270±5%  | 50                      | 8         | 350              | 2.60           | 150            |
| SCHF160808HR33JT | 330±5%  | 50                      | 8         | 350              | 2.80           | 150            |
| SCHF160808HR39KT | 390±10% | 50                      | 8         | 300              | 3.20           | 150            |
| SCHF160808HR43KT | 430±10% | 50                      | 8         | 280              | 3.40           | 150            |
| SCHF160808HR47KT | 470±10% | 50                      | 8         | 250              | 3.60           | 150            |

SCHF201209 Series

| Part Number      | L(nH)   | L,Q Test Freq.<br>(MHz) | Q<br>Min. | SRF(MHz)<br>Min. | RDC(Ω)<br>Max. | Ir(mA)<br>Max. |
|------------------|---------|-------------------------|-----------|------------------|----------------|----------------|
| SCHF201209H1N5ST | 1.5±0.3 | 100                     | 8         | 6000             | 0.10           | 600            |
| SCHF201209H1N8ST | 1.8±0.3 | 100                     | 8         | 6000             | 0.10           | 600            |
| SCHF201209H2N2ST | 2.2±0.3 | 100                     | 8         | 6000             | 0.10           | 600            |
| SCHF201209H2N7ST | 2.7±0.3 | 100                     | 8         | 6000             | 0.10           | 600            |
| SCHF201209H3N3ST | 3.3±0.3 | 100                     | 8         | 6000             | 0.13           | 600            |
| SCHF201209H3N9ST | 3.9±0.3 | 100                     | 8         | 5400             | 0.15           | 600            |
| SCHF201209H4N7ST | 4.7±0.3 | 100                     | 8         | 4500             | 0.20           | 400            |
| SCHF201209H5N6ST | 5.6±0.3 | 100                     | 8         | 4000             | 0.23           | 400            |
| SCHF201209H6N8JT | 6.8±5%  | 100                     | 8         | 3650             | 0.25           | 400            |
| SCHF201209H8N2JT | 8.2±5%  | 100                     | 8         | 3000             | 0.28           | 400            |
| SCHF201209H10NJT | 10±5%   | 100                     | 8         | 2500             | 0.30           | 300            |
| SCHF201209H12NJT | 12±5%   | 100                     | 8         | 2450             | 0.35           | 300            |
| SCHF201209H15NJT | 15±5%   | 100                     | 8         | 2000             | 0.40           | 300            |
| SCHF201209H18NJT | 18±5%   | 100                     | 8         | 1750             | 0.45           | 300            |
| SCHF201209H22NJT | 22±5%   | 100                     | 8         | 1700             | 0.50           | 300            |
| SCHF201209H27NJT | 27±5%   | 100                     | 8         | 1550             | 0.55           | 300            |
| SCHF201209H33NJT | 33±5%   | 100                     | 8         | 1350             | 0.60           | 300            |
| SCHF201209H39NJT | 39±5%   | 100                     | 8         | 1300             | 0.70           | 300            |
| SCHF201209H47NJT | 47±5%   | 100                     | 8         | 1200             | 0.80           | 300            |
| SCHF201209H56NJT | 56±5%   | 100                     | 8         | 1150             | 0.80           | 300            |
| SCHF201209H68NJT | 68±5%   | 100                     | 8         | 1000             | 0.85           | 300            |
| SCHF201209H82NJT | 82±5%   | 100                     | 8         | 850              | 0.90           | 300            |
| SCHF201209HR10JT | 100±5%  | 100                     | 8         | 600              | 1.00           | 300            |

**Electrical Characteristics 电气性能**

## SCHF201209 Series

| Part Number      | L(nH)         | L,Q Test Freq.<br>(MHz) | Q<br>Min. | SRF(MHz)<br>Min. | RDC( $\Omega$ )<br>Max. | Ir(mA)<br>Max. |
|------------------|---------------|-------------------------|-----------|------------------|-------------------------|----------------|
| SCHF201209HR12JT | 120 $\pm$ 5%  | 50                      | 8         | 500              | 1.20                    | 300            |
| SCHF201209HR15KT | 150 $\pm$ 10% | 50                      | 8         | 500              | 1.50                    | 300            |
| SCHF201209HR18KT | 180 $\pm$ 10% | 50                      | 8         | 400              | 1.80                    | 300            |
| SCHF201209HR22KT | 220 $\pm$ 10% | 50                      | 8         | 350              | 1.80                    | 300            |
| SCHF201209HR27KT | 270 $\pm$ 10% | 50                      | 8         | 350              | 1.80                    | 300            |
| SCHF201209HR33KT | 330 $\pm$ 10% | 50                      | 8         | 300              | 2.00                    | 300            |
| SCHF201209HR39KT | 390 $\pm$ 10% | 50                      | 8         | 250              | 2.00                    | 300            |
| SCHF201209HR47KT | 470 $\pm$ 10% | 50                      | 8         | 200              | 2.00                    | 300            |

**SMD Wire Wound Chip Inductor SCWI-C Series 贴片（高频）绕线电感 SCWI-C 系列****Features特点**

- Minature size, suitable for SMT  
体积小，适合高密度表面贴装
- High Q value、high SRF、Tight inductance tolerance and high reliability  
高 Q 值、高自谐频率、高精度和高可靠性

**Applications应用**

- Cordless phone and high frequency communication products  
无线电话和高频通信产品

**Product Identification 产品标识****SCWI 0402 UC 10N J S T**

① ② ③ ④ ⑤ ⑥ ⑦

① Series name 系列名称

② Dimension 产品尺寸

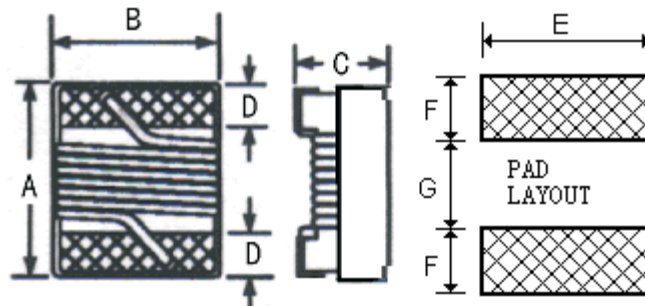
③ Base materials 基体材质【UC HC】

④ Inductance 电感量【1N0=1.0nH; 10N=10nH; R10=100nH】

⑤ Tolerance of Inductance 电感量公差【B:±0.1nH C:±0.2nH S:±0.3nH D:±0.5nH F: ±1% G: ±2% H: ±3% J: ±5%  
K: ±10% M: ±20%】

⑥ Terminal 电极【S:镀锡 G:镀金】

⑦ Packing Style 包装方式【T: Taping 编带盘装 B: Bulk 散装】

**Shapes And Dimensions 外形及尺寸示意图**

| Series     | Dimensions(mm) [inch] |                 |                 |                 |                 |                 |                 |
|------------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|            | A Max.                | B Max.          | C Max.          | D Typ.          | E Typ.          | F Typ.          | G Typ.          |
| SCWI0402UC | 1.19<br>[0.047]       | 0.66<br>[0.026] | 0.60<br>[0.024] | 0.23<br>[0.009] | 0.68<br>[0.026] | 0.36<br>[0.014] | 0.46<br>[0.018] |
| SCWI0603UC | 1.78<br>[0.070]       | 1.10<br>[0.043] | 0.95<br>[0.037] | 0.30<br>[0.012] | 1.02<br>[0.04]  | 0.64<br>[0.025] | 0.64<br>[0.025] |
| SCWI0805UC | 2.3<br>[0.091]        | 1.70<br>[0.067] | 1.52<br>[0.060] | 0.50<br>[0.020] | 1.78<br>[0.070] | 1.02<br>[0.040] | 0.76<br>[0.030] |
| SCWI1008UC | 2.92<br>[0.115]       | 2.79<br>[0.110] | 2.10<br>[0.083] | 0.50<br>[0.020] | 2.54<br>[0.100] | 1.02<br>[0.040] | 1.27<br>[0.050] |
| SCWI1210HC | 3.50<br>[0.138]       | 2.90<br>[0.114] | 2.25<br>[0.088] | 0.50<br>[0.020] | 2.54<br>[0.100] | 1.02<br>[0.040] | 1.78<br>[0.070] |

**Electrical Characteristics 电气性能**

## SCWI0402UC Series

| Part Number     | L(nH)      | Tolerance (%) | Q (Min.)  | SRF Min. (GHz) | DCR Max. ( $\Omega$ ) | Rated Current Max. (mA) |
|-----------------|------------|---------------|-----------|----------------|-----------------------|-------------------------|
| SCWI0402UC1N0_T | 1.0@250MHZ | 10            | 13@250MHZ | 10.0           | 0.045                 | 1360                    |
| SCWI0402UC2N2_T | 2.2@250MHZ | 10,5          | 18@250MHZ | 6.00           | 0.07                  | 960                     |
| SCWI0402UC2N7_T | 2.7@250MHZ | 10,5          | 15@250MHZ | 6.00           | 0.12                  | 640                     |
| SCWI0402UC3N3_T | 3.3@250MHZ | 10,5          | 20@250MHZ | 6.00           | 0.066                 | 840                     |
| SCWI0402UC3N9_T | 3.9@250MHZ | 10,5          | 20@250MHZ | 6.00           | 0.066                 | 840                     |
| SCWI0402UC4N7_T | 4.7@250MHZ | 10,5,2        | 18@250MHZ | 4.50           | 0.2                   | 640                     |
| SCWI0402UC5N6_T | 5.6@250MHZ | 10,5,2        | 20@250MHZ | 4.80           | 0.083                 | 760                     |
| SCWI0402UC6N8_T | 6.8@250MHZ | 10,5,2        | 23@250MHZ | 4.80           | 0.26                  | 680                     |
| SCWI0402UC8N2_T | 8.2@250MHZ | 10,5,2        | 25@250MHZ | 4.40           | 0.1                   | 680                     |
| SCWI0402UC10N_T | 10@250MHZ  | 10,5,2        | 25@250MHZ | 3.90           | 0.2                   | 480                     |
| SCWI0402UC12N_T | 12@250MHZ  | 10,5,2        | 25@250MHZ | 3.60           | 0.12                  | 640                     |
| SCWI0402UC15N_T | 15@250MHZ  | 10,5,2        | 25@250MHZ | 3.28           | 0.3                   | 560                     |
| SCWI0402UC18N_T | 18@250MHZ  | 10,5,2        | 25@250MHZ | 3.10           | 0.23                  | 420                     |
| SCWI0402UC22N_T | 22@250MHZ  | 10,5,2        | 25@250MHZ | 2.80           | 0.3                   | 400                     |
| SCWI0402UC27N_T | 27@250MHZ  | 10,5,2        | 24@250MHZ | 2.48           | 0.52                  | 280                     |
| SCWI0402UC33N_T | 33@250MHZ  | 10,5,2        | 24@250MHZ | 2.35           | 0.65                  | 350                     |
| SCWI0402UC39N_T | 39@250MHZ  | 10,5,2        | 25@250MHZ | 2.10           | 0.75                  | 200                     |
| SCWI0402UC47N_T | 47@250MHZ  | 10,5,2        | 25@250MHZ | 2.10           | 0.83                  | 150                     |
| SCWI0402UC56N_T | 56@250MHZ  | 10,5,2        | 25@250MHZ | 1.76           | 0.97                  | 100                     |
| SCWI0402UC68N_T | 68@250MHZ  | 10,5,2        | 25@250MHZ | 1.62           | 1.12                  | 100                     |
| SCWI0402UC82N_T | 82@250MHZ  | 10,5,2        | 25@250MHZ | 1.26           | 1.7                   | 50                      |
| SCWI0402UCR10_T | 100@250MHZ | 10,5,2        | 25@250MHZ | 1.16           | 2                     | 30                      |
| SCWI0402UCR12_T | 120@250MHZ | 10,5,2        | 25@250MHZ | 1.10           | 2.2                   | 30                      |

**Electrical Characteristics 电气性能**

## SCWI0603UC Series

| Part Number     | L(nH)      | Tolerance (%) | Q (Min.)  | SRF Min. (GHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|-----------------|------------|---------------|-----------|----------------|--------------|-------------------------|
| SCWI0603UC1N6_T | 1.6@250MHZ | 10            | 18@250MHZ | 12.5           | 0.040        | 700                     |
| SCWI0603UC1N8_T | 1.8@250MHZ | 10            | 16@250MHZ | 12.5           | 0.045        | 700                     |
| SCWI0603UC2N2_T | 2.2@250MHZ | 10            | 12@250MHZ | 10             | 0.090        | 700                     |
| SCWI0603UC3N3_T | 3.3@250MHZ | 10            | 20@250MHZ | 5.9            | 0.075        | 700                     |
| SCWI0603UC3N6_T | 3.6@250MHZ | 10,5          | 22@250MHZ | 5.9            | 0.075        | 700                     |
| SCWI0603UC3N9_T | 3.9@250MHZ | 10,5          | 22@250MHZ | 6.9            | 0.080        | 700                     |
| SCWI0603UC4N3_T | 4.3@250MHZ | 10,5          | 22@250MHZ | 5.9            | 0.075        | 700                     |
| SCWI0603UC4N7_T | 4.7@250MHZ | 10,5          | 20@250MHZ | 5.8            | 0.116        | 700                     |
| SCWI0603UC5N1_T | 5.1@250MHZ | 10,5          | 20@250MHZ | 5.7            | 0.120        | 700                     |
| SCWI0603UC5N6_T | 5.6@250MHZ | 10            | 18@250MHZ | 5.7            | 0.200        | 700                     |
| SCWI0603UC6N8_T | 6.8@250MHZ | 10,5          | 27@250MHZ | 5.8            | 0.110        | 700                     |
| SCWI0603UC7N5_T | 7.5@250MHZ | 10,5          | 28@250MHZ | 4.8            | 0.110        | 700                     |
| SCWI0603UC8N2_T | 8.2@250MHZ | 10            | 28@250MHZ | 4.7            | 0.120        | 700                     |
| SCWI0603UC9N5_T | 9.5@250MHZ | 10            | 26@250MHZ | 5.4            | 0.150        | 700                     |
| SCWI0603UC10N_T | 10@250MHZ  | 10            | 31@250MHZ | 4.8            | 0.130        | 700                     |
| SCWI0603UC12N_T | 12@250MHZ  | 10            | 35@250MHZ | 4              | 0.130        | 700                     |
| SCWI0603UC15N_T | 15@250MHZ  | 10            | 30@250MHZ | 4              | 0.150        | 700                     |
| SCWI0603UC18N_T | 18@250MHZ  | 10            | 35@250MHZ | 3.1            | 0.170        | 700                     |
| SCWI0603UC22N_T | 22@250MHZ  | 10            | 38@250MHZ | 3              | 0.190        | 700                     |
| SCWI0603UC27N_T | 27@250MHZ  | 10            | 36@250MHZ | 2.8            | 0.220        | 600                     |
| SCWI0603UC33N_T | 33@250MHZ  | 10            | 36@250MHZ | 2.3            | 0.220        | 600                     |
| SCWI0603UC36N_T | 36@250MHZ  | 10            | 36@250MHZ | 2.08           | 0.250        | 600                     |
| SCWI0603UC39N_T | 39@250MHZ  | 10            | 40@250MHZ | 2.2            | 0.250        | 600                     |
| SCWI0603UC43N_T | 43@250MHZ  | 10            | 36@250MHZ | 2              | 0.280        | 600                     |
| SCWI0603UC47N_T | 47@200MHZ  | 10            | 36@200MHZ | 2              | 0.280        | 600                     |
| SCWI0603UC56N_T | 56@200MHZ  | 10            | 38@200MHZ | 1.9            | 0.280        | 600                     |
| SCWI0603UC68N_T | 68@200MHZ  | 10            | 36@200MHZ | 1.7            | 0.340        | 600                     |
| SCWI0603UC75N_T | 75@150MHZ  | 10            | 30@150MHZ | 1.4            | 0.600        | 400                     |
| SCWI0603UC82N_T | 82@150MHZ  | 10            | 34@150MHZ | 1.7            | 0.550        | 400                     |
| SCWI0603UCR10_T | 100@150MHZ | 10            | 30@150MHZ | 1.4            | 0.630        | 400                     |
| SCWI0603UCR12_T | 120@150MHZ | 10            | 32@150MHZ | 1.3            | 0.730        | 300                     |
| SCWI0603UCR15_T | 150@150MHZ | 10            | 28@150MHZ | 0.99           | 0.800        | 280                     |
| SCWI0603UCR18_T | 180@100MHZ | 10            | 25@100MHZ | 0.99           | 1.450        | 240                     |
| SCWI0603UCR20_T | 200@100MHZ | 10            | 25@100MHZ | 0.9            | 1.550        | 200                     |
| SCWI0603UCR22_T | 220@100MHZ | 10            | 25@100MHZ | 0.9            | 2.100        | 200                     |
| SCWI0603UCR27_T | 270@100MHZ | 10            | 24@100MHZ | 0.9            | 2.300        | 170                     |
| SCWI0603UCR33_T | 330@100MHZ | 10            | 25@100MHZ | 0.9            | 3.890        | 100                     |
| SCWI0603UCR39_T | 390@100MHZ | 10            | 25@100MHZ | 0.8            | 4.350        | 100                     |

**Electrical Characteristics 电气性能**

## SCWI0805UC Series

| Part Number     | L(nH)      | Tolerance (%) | Q (Min.)   | SRF Min. (GHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|-----------------|------------|---------------|------------|----------------|--------------|-------------------------|
| SCWI0805UC2N2_T | 2.2@250MHz | 10            | 50@1500MHz | 8.50           | 0.030        | 800                     |
| SCWI0805UC2N7_T | 2.7@250MHz | 10,5          | 50@1500MHz | 8.00           | 0.045        | 800                     |
| SCWI0805UC3N3_T | 3.3@250MHz | 10            | 35@1500MHz | 7.90           | 0.090        | 600                     |
| SCWI0805UC4N7_T | 4.7@250MHz | 10            | 40@1000MHz | 6.00           | 0.050        | 600                     |
| SCWI0805UC5N6_T | 5.6@250MHz | 10,5          | 50@1000MHz | 5.50           | 0.065        | 600                     |
| SCWI0805UC6N8_T | 6.8@250MHz | 10,5          | 50@1000MHz | 5.50           | 0.110        | 600                     |
| SCWI0805UC8N2_T | 8.2@250MHz | 10,5          | 35@1000MHz | 4.70           | 0.200        | 600                     |
| SCWI0805UC10N_T | 10@250MHz  | 10,5,2        | 50@500MHz  | 4.20           | 0.150        | 600                     |
| SCWI0805UC12N_T | 12@250MHz  | 10,5,2        | 50@500MHz  | 4.00           | 0.150        | 600                     |
| SCWI0805UC15N_T | 15@250MHz  | 10,5,2        | 45@500MHz  | 3.40           | 0.170        | 600                     |
| SCWI0805UC18N_T | 18@250MHz  | 10,5,2        | 55@500MHz  | 3.30           | 0.200        | 600                     |
| SCWI0805UC22N_T | 22@250MHz  | 10,5,2        | 55@500MHz  | 2.60           | 0.220        | 500                     |
| SCWI0805UC27N_T | 27@250MHz  | 10,5,2        | 55@500MHz  | 2.50           | 0.250        | 500                     |
| SCWI0805UC33N_T | 33@250MHz  | 10,5,2        | 55@500MHz  | 2.05           | 0.270        | 500                     |
| SCWI0805UC39N_T | 39@250MHz  | 10,5,2        | 55@500MHz  | 2.00           | 0.290        | 500                     |
| SCWI0805UC47N_T | 47@200MHz  | 10,5,2        | 55@500MHz  | 1.65           | 0.310        | 500                     |
| SCWI0805UC56N_T | 56@200MHz  | 10,5,2        | 55@500MHz  | 1.55           | 0.340        | 500                     |
| SCWI0805UC68N_T | 68@200MHz  | 10,5,2        | 55@500MHz  | 1.45           | 0.380        | 500                     |
| SCWI0805UC75N_T | 75@200MHz  | 10,5,2        | 55@500MHz  | 1.40           | 0.400        | 400                     |
| SCWI0805UC82N_T | 82@150MHz  | 10,5,2        | 55@500MHz  | 1.30           | 0.420        | 400                     |
| SCWI0805UCR10_T | 100@150MHz | 10,5,2        | 50@500MHz  | 1.20           | 0.460        | 400                     |
| SCWI0805UCR12_T | 120@150MHz | 10,5,2        | 45@250MHz  | 1.10           | 0.510        | 400                     |
| SCWI0805UCR15_T | 150@100MHz | 10,5,2        | 45@250MHz  | 0.92           | 0.560        | 400                     |
| SCWI0805UCR18_T | 180@100MHz | 10,5,2        | 45@250MHz  | 0.87           | 0.640        | 400                     |
| SCWI0805UCR22_T | 220@100MHz | 10,5,2        | 40@250MHz  | 0.85           | 1.050        | 400                     |
| SCWI0805UCR27_T | 270@100MH  | 10,5,2        | 40@250MHz  | 0.65           | 1.100        | 350                     |
| SCWI0805UCR33_T | 330@100MHz | 10,5          | 40@250MHz  | 0.60           | 1.400        | 310                     |
| SCWI0805UCR39_T | 390@100MHz | 10,5          | 40@250MHz  | 0.56           | 1.500        | 290                     |
| SCWI0805UCR47_T | 470@50MHz  | 10,5          | 33@100MHz  | 0.38           | 2.000        | 250                     |
| SCWI0805UCR56_T | 560@25MHz  | 10,5          | 23@50MHz   | 0.34           | 1.900        | 230                     |
| SCWI0805UCR68_T | 680@25MHz  | 10,5          | 23@50MHz   | 0.30           | 2.100        | 190                     |
| SCWI0805UCR75_T | 750@25MHz  | 10,5          | 23@50MHz   | 0.28           | 2.120        | 180                     |
| SCWI0805UCR82_T | 820@25MHz  | 10,5          | 23@50MHz   | 0.25           | 2.140        | 180                     |
| SCWI0805UCR91_T | 910@25MHz  | 10,5          | 20@50MHz   | 0.22           | 2.280        | 180                     |
| SCWI0805UC1R0_T | 1000@25MHz | 10,5          | 20@50MHz   | 0.20           | 2.400        | 170                     |

**Electrical Characteristics 电气性能**

## SCWI0805UC Series

| Part Number     | L(nH)       | Tolerance (%) | Q (Min.)  | SRF Min. (GHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|-----------------|-------------|---------------|-----------|----------------|--------------|-------------------------|
| SCWI0805UC1R2_T | 1200@7.9MHz | 10,5          | 18@50MHz  | 0.18           | 2.550        | 170                     |
| SCWI0805UC1R5_T | 1500@7.9MHz | 10,5          | 18@50MHz  | 0.17           | 2.800        | 160                     |
| SCWI0805UC1R8_T | 1800@7.9MHz | 10,5          | 18@50MHz  | 0.14           | 3.800        | 150                     |
| SCWI0805UC2R2_T | 2200@7.9MHz | 10,5          | 16@7.9MHz | 0.05           | 4.200        | 150                     |

## SCWI1008UC Series

| Part Number     | L(nH)      | Tolerance (%) | Q (Min.)   | SRF Min. (GHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|-----------------|------------|---------------|------------|----------------|--------------|-------------------------|
| SCWI1008UC3N9_T | 3.9@50MHz  | 10,5          | 50@1500MHz | 6.00           | 0.035        | 1000                    |
| SCWI1008UC4N7_T | 4.7@50MHz  | 10,5          | 50@1500MHz | 6.00           | 0.045        | 1000                    |
| SCWI1008UC5N6_T | 5.6@50MHz  | 10,5          | 30@1000MHz | 6.00           | 0.180        | 1000                    |
| SCWI1008UC8N2_T | 8.2 @50MHz | 10,5          | 50@1000MHz | 5.00           | 0.050        | 1000                    |
| SCWI1008UC10N_T | 10@50MHz   | 10,5,2        | 50@500MHz  | 4.10           | 0.080        | 1000                    |
| SCWI1008UC12N_T | 12@50MHz   | 10,5,2        | 50@500MHz  | 3.30           | 0.090        | 1000                    |
| SCWI1008UC15N_T | 15@50MHz   | 10,5,2        | 45@500MHz  | 2.50           | 0.150        | 1000                    |
| SCWI1008UC18N_T | 18@50MHz   | 10,5,2        | 50@350MHz  | 2.50           | 0.110        | 1000                    |
| SCWI1008UC22N_T | 22@50MHz   | 10,5,2        | 55@350MHz  | 2.40           | 0.120        | 1000                    |
| SCWI1008UC27N_T | 27@50MHz   | 10,5,2        | 55@350MHz  | 1.60           | 0.130        | 1000                    |
| SCWI1008UC33N_T | 33@50MHz   | 10,5,2        | 60@350MHz  | 1.60           | 0.140        | 1000                    |
| SCWI1008UC39N_T | 39@50MHz   | 10,5,2        | 60@350MHz  | 1.50           | 0.150        | 1000                    |
| SCWI1008UC47N_T | 47@50MHz   | 10,5,2        | 65@350MHz  | 1.50           | 0.160        | 1000                    |
| SCWI1008UC56N_T | 56@50MHz   | 10,5,2        | 65@350MHz  | 1.10           | 0.180        | 1000                    |
| SCWI1008UC68N_T | 68@50MHz   | 10,5,2        | 65@350MHz  | 1.00           | 0.200        | 1000                    |
| SCWI1008UC82N_T | 82@50MHz   | 10,5,2        | 60@350MHz  | 1.00           | 0.220        | 1000                    |
| SCWI1008UCR10_T | 100@25MHz  | 10,5,2        | 60@350MHz  | 1.00           | 0.560        | 650                     |
| SCWI1008UCR12_T | 120@25MHz  | 10,5,2        | 60@350MHz  | 0.95           | 0.630        | 650                     |
| SCWI1008UCR15_T | 150@25MHz  | 10,5          | 45@100MHz  | 0.80           | 0.700        | 580                     |
| SCWI1008UCR18_T | 180@25MHz  | 10,5          | 45@100MHz  | 0.64           | 0.770        | 620                     |
| SCWI1008UCR22_T | 220@25MHz  | 10,5          | 45@100MHz  | 0.62           | 0.840        | 500                     |
| SCWI1008UCR27_T | 270@25MHz  | 10,5          | 45@100MHz  | 0.60           | 0.910        | 500                     |
| SCWI1008UCR33_T | 330@25MHz  | 10,5          | 45@100MHz  | 0.50           | 1.050        | 450                     |
| SCWI1008UCR39_T | 390@25MHz  | 10,5          | 45@100MHz  | 0.48           | 1.120        | 470                     |
| SCWI1008UCR47_T | 470@25MHz  | 10,5          | 45@100MHz  | 0.45           | 1.190        | 470                     |
| SCWI1008UCR56_T | 560@25MHz  | 10,5          | 45@100MHz  | 0.415          | 1.330        | 400                     |
| SCWI1008UCR68_T | 680@25MHz  | 10,5          | 45@100MHz  | 0.375          | 1.470        | 400                     |
| SCWI1008UCR82_T | 820@25MHz  | 10,5          | 45@100MHz  | 0.25           | 1.610        | 400                     |

**Electrical Characteristics 电气性能**

## SCWI1008UC Series

| Part Number     | L(nH)        | Tolerance (%) | Q (Min.)  | SRF Min. (GHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|-----------------|--------------|---------------|-----------|----------------|--------------|-------------------------|
| SCWI1008UC1R0_T | 1000@25MHz   | 10,5          | 35@50MHz  | 0.21           | 1.750        | 370                     |
| SCWI1008UC1R2_T | 1200@7.9MHz  | 10,5          | 35@50MHz  | 0.20           | 2.000        | 310                     |
| SCWI1008UC1R5_T | 1500@7.9MHz  | 10,5          | 28@50MHz  | 0.18           | 2.300        | 330                     |
| SCWI1008UC1R8_T | 1800@7.9MHz  | 10,5          | 28@50MHz  | 0.16           | 2.600        | 300                     |
| SCWI1008UC2R2_T | 2200@7.9MHz  | 10,5          | 20@50MHz  | 0.09           | 2.800        | 280                     |
| SCWI1008UC2R7_T | 2700@7.9MHz  | 10,5          | 22@25MHz  | 0.08           | 3.200        | 290                     |
| SCWI1008UC3R3_T | 3300@7.9MHz  | 10,5          | 22@25MHz  | 0.07           | 3.400        | 290                     |
| SCWI1008UC3R9_T | 3900@7.9MHz  | 10,5          | 16@25MHz  | 0.06           | 3.600        | 260                     |
| SCWI1008UC4R7_T | 4700@7.9MHz  | 10,5          | 18@25MHz  | 0.06           | 4.000        | 260                     |
| SCWI1008UC5R6_T | 5600@7.9MHz  | 10,5          | 18@7.9MHz | 0.06           | 7.600        | 240                     |
| SCWI1008UC6R8_T | 6800@7.9MHz  | 10,5          | 18@7.9MHz | 0.05           | 8.200        | 200                     |
| SCWI1008UC8R2_T | 8200@7.9MHz  | 10,5          | 18@7.9MHz | 0.04           | 8.200        | 170                     |
| SCWI1008UC100_T | 10000@7.9MHz | 10,5          | 20@7.9MHz | 0.04           | 9.100        | 160                     |

## SCWI1210HC Series

| Part Number     | L(nH)      | Tolerance (%) | Q (Min.)  | SRF Min. (GHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|-----------------|------------|---------------|-----------|----------------|--------------|-------------------------|
| SCWI1210HC3N9_T | 3.9@100MHz | 10            | 30@300MHz | 6.00           | 0.050        | 1000                    |
| SCWI1210HC4N7_T | 4.7@100MHz | 10,5          | 30@300MHz | 5.80           | 0.065        | 1000                    |
| SCWI1210HC8N2_T | 8.2@100MHz | 10            | 30@300MHz | 5.50           | 0.070        | 1000                    |
| SCWI1210HC10N_T | 10@100MHz  | 10,5,2        | 40@300MHz | 4.00           | 0.080        | 1000                    |
| SCWI1210HC12N_T | 12@100MHz  | 10,5          | 40@300MHz | 3.20           | 0.080        | 1000                    |
| SCWI1210HC15N_T | 15@100MHz  | 10,5          | 40@300MHz | 3.20           | 0.100        | 1000                    |
| SCWI1210HC18N_T | 18@100MHz  | 10,5,2        | 50@300MHz | 2.80           | 0.100        | 1000                    |
| SCWI1210HC22N_T | 22@100MHz  | 10,5          | 50@300MHz | 2.00           | 0.100        | 1000                    |
| SCWI1210HC27N_T | 27@100MHz  | 10,5,2        | 50@300MHz | 1.80           | 0.110        | 1000                    |
| SCWI1210HC33N_T | 33@100MHz  | 10,5,2        | 55@300MHz | 1.80           | 0.110        | 1000                    |
| SCWI1210HC39N_T | 39@100MHz  | 10,5,2        | 55@300MHz | 1.80           | 0.120        | 1000                    |
| SCWI1210HC47N_T | 47@100MHz  | 10,5,2        | 55@300MHz | 1.50           | 0.130        | 1000                    |
| SCWI1210HC56N_T | 56@100MHz  | 10,5,2        | 55@300MHz | 1.45           | 0.140        | 1000                    |
| SCWI1210HC68N_T | 68@100MHz  | 10,5,2        | 55@300MHz | 1.20           | 0.150        | 900                     |
| SCWI1210HC82N_T | 82@100MHz  | 10,5,2        | 55@300MHz | 1.00           | 0.200        | 900                     |
| SCWI1210HCR10_T | 100@100MHz | 10,5,2        | 55@300MHz | 0.90           | 0.210        | 850                     |
| SCWI1210HCR12_T | 120@100MHz | 10,5,2        | 60@300MHz | 0.80           | 0.210        | 800                     |
| SCWI1210HCR15_T | 150@100MHz | 10,5,2        | 60@300MHz | 0.78           | 0.250        | 750                     |

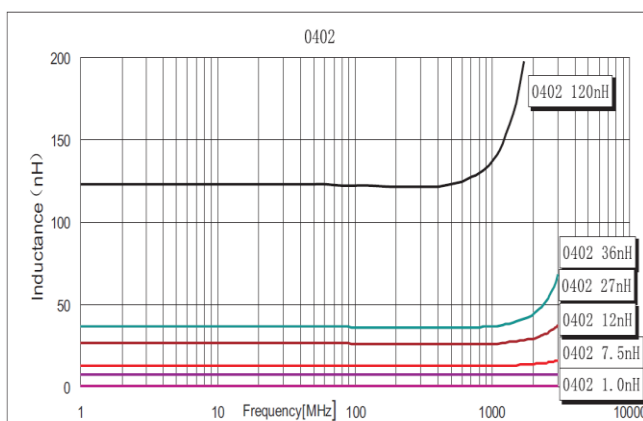
**Electrical Characteristics 电气性能**

## SCWI1210HC Series

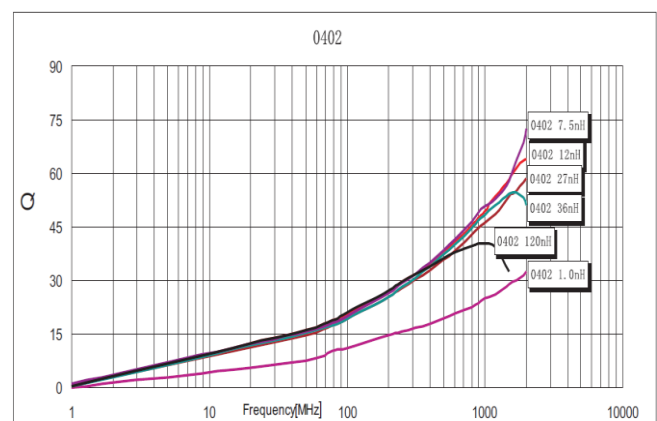
| Part Number     | L(nH)        | Tolerance (%) | Q (Min.)  | SRF Min. (GHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|-----------------|--------------|---------------|-----------|----------------|--------------|-------------------------|
| SCWI1210HCR18_T | 180@50MHz    | 10,5,2        | 60@300MHz | 0.76           | 0.300        | 700                     |
| SCWI1210HCR22_T | 220@50MHz    | 10,5,2        | 60@300MHz | 0.65           | 0.320        | 670                     |
| SCWI1210HCR27_T | 270@50MHz    | 10,5,2        | 55@300MHz | 0.62           | 0.340        | 630                     |
| SCWI1210HCR33_T | 330@50MHz    | 10,5,2        | 45@150MHz | 0.60           | 0.380        | 590                     |
| SCWI1210HCR39_T | 390@50MHz    | 10,5,2        | 45@150MHz | 0.51           | 0.580        | 530                     |
| SCWI1210HCR47_T | 470@50MHz    | 10,5,2        | 45@150MHz | 0.50           | 0.800        | 490                     |
| SCWI1210HCR56_T | 560@35MHz    | 10,5          | 45@150MHz | 0.42           | 1.100        | 460                     |
| SCWI1210HCR68_T | 680@35MHz    | 10,5,2        | 45@150MHz | 0.40           | 1.200        | 430                     |
| SCWI1210HCR75_T | 750@35MHz    | 10,5,2        | 45@150MHz | 0.38           | 1.70         | 400                     |
| SCWI1210HCR82_T | 820@35MHz    | 10,5,2        | 45@150MHz | 0.37           | 1.820        | 400                     |
| SCWI1210HC1R0_T | 1000@35MHz   | 10,5,2        | 45@150MHz | 0.34           | 1.850        | 320                     |
| SCWI1210HC1R2_T | 1200@35MHz   | 10,5          | 35@150MHz | 0.22           | 1.870        | 300                     |
| SCWI1210HC1R5_T | 1500@7.9MHz  | 10,5          | 30@50MHz  | 0.16           | 1.950        | 310                     |
| SCWI1210HC1R8_T | 1800@7.9MHz  | 10,5          | 30@50MHz  | 0.16           | 2.250        | 310                     |
| SCWI1210HC2R2_T | 2200@7.9MHz  | 10,5          | 30@50MHz  | 0.11           | 2.410        | 310                     |
| SCWI1210HC2R7_T | 2700@7.9MHz  | 10,5          | 25@25MHz  | 0.10           | 2.850        | 300                     |
| SCWI1210HC3R3_T | 3300@7.9MHz  | 10,5          | 20@25MHz  | 0.09           | 3.120        | 300                     |
| SCWI1210HC3R9_T | 3900@7.9MHz  | 10,5          | 20@25MHz  | 0.08           | 3.600        | 290                     |
| SCWI1210HC4R7_T | 4700@7.9MHz  | 10,5          | 16@25MHz  | 0.06           | 4.000        | 280                     |
| SCWI1210HC5R6_T | 5600@7.9MHz  | 10,5          | 20@7.9MHz | 0.06           | 5.000        | 250                     |
| SCWI1210HC6R8_T | 6800@7.9MHz  | 10,5          | 20@7.9MHz | 0.06           | 8.000        | 230                     |
| SCWI1210HC8R2_T | 8200@7.9MHz  | 10,5          | 20@7.9MHz | 0.05           | 8.600        | 170                     |
| SCWI1210HC100_T | 10000@7.9MHz | 10,5          | 22@7.9MHz | 0.02           | 6.800        | 200                     |

**Characteristic curve 特性曲线**

Ls VS Freq.



Q VS Freq.

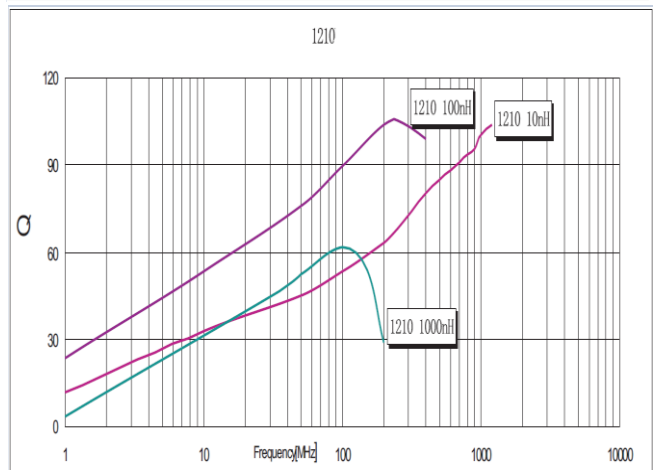
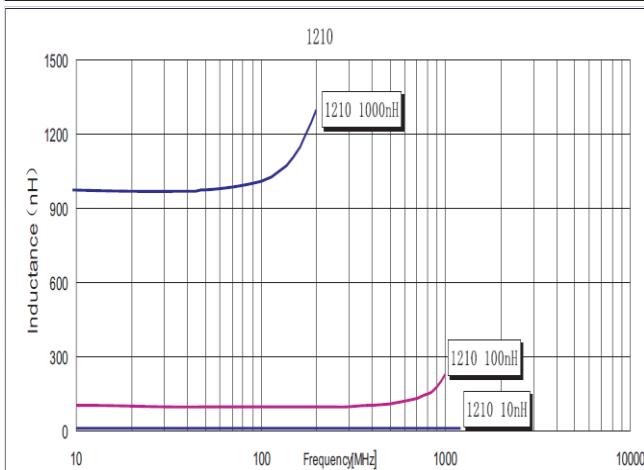
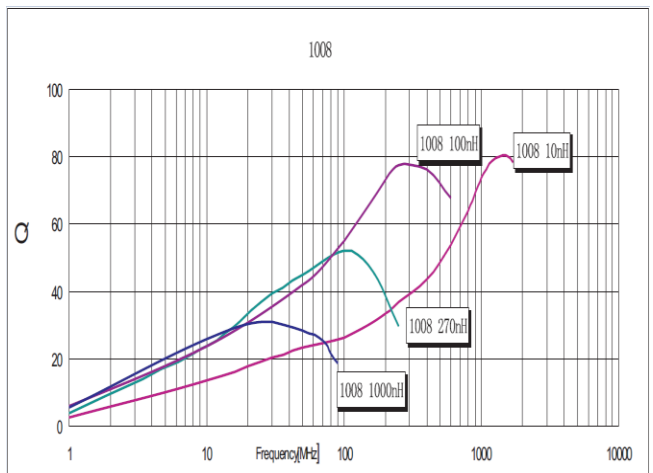
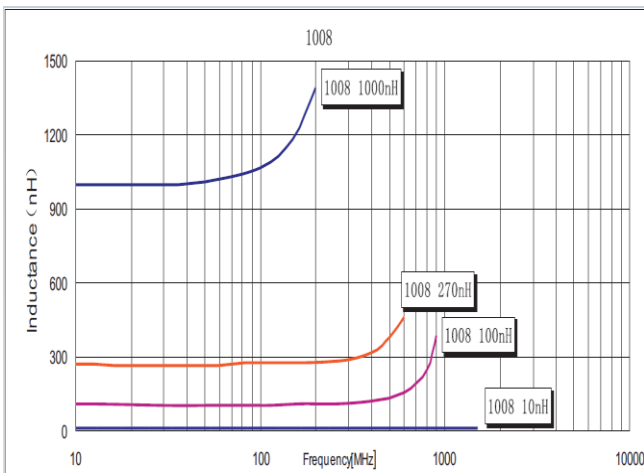
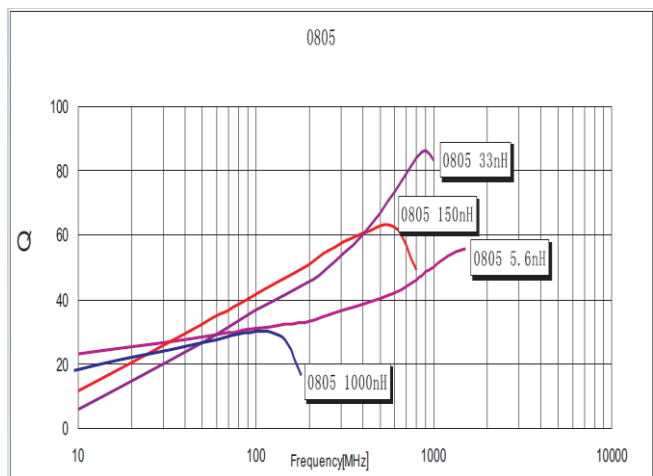
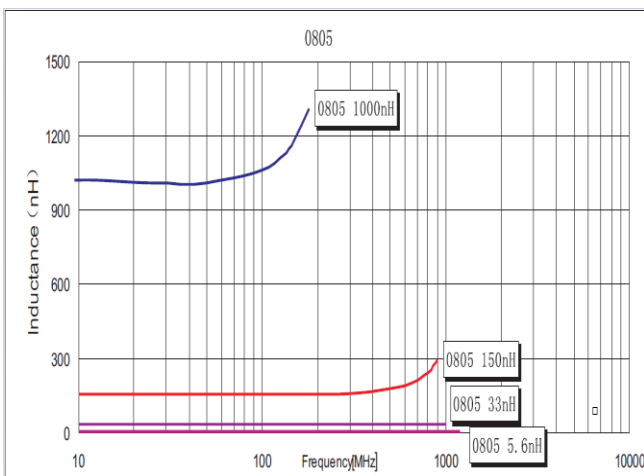
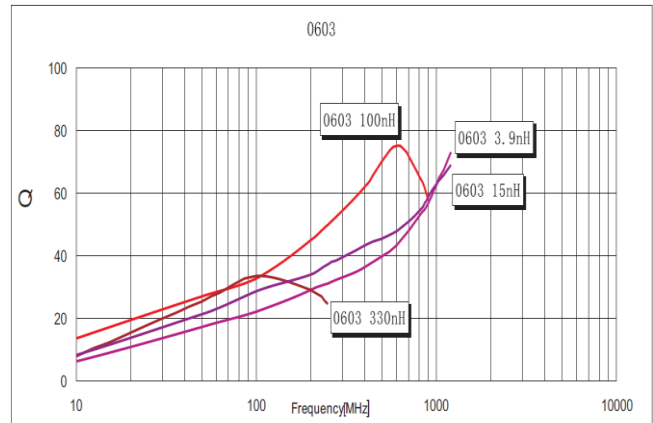
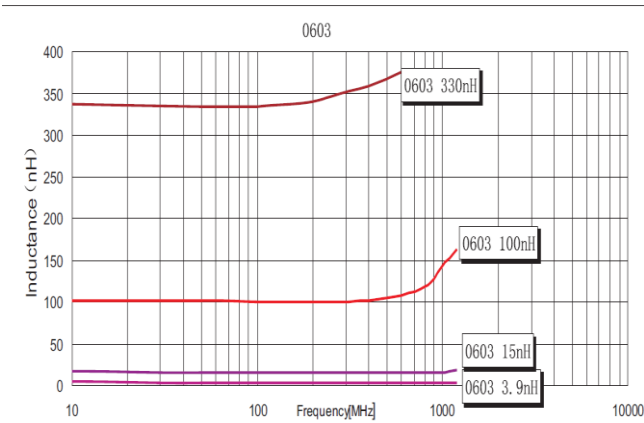




## Characteristic curve 特性曲线

L VS Freq.

Q VS Freq.

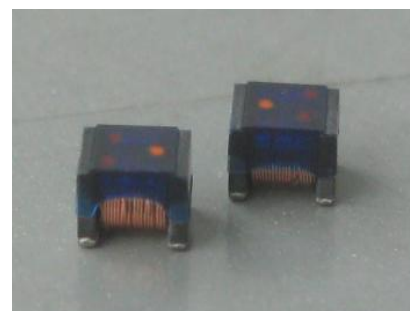


**SMD Wire Wound Chip Inductor SCWI-F Series 贴片（铁氧体）绕线电感 SCWI-F 系列****Features特点**

- Minature size, suitable for SMT  
体积小，适合高密度表面贴装
- Low DC resistance、high current and high inductance and high reliability  
低直流电阻、高电流、高感量和高可靠性

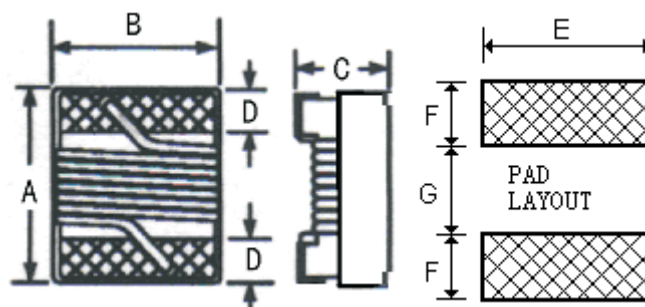
**Applications应用**

- Personal computers, Digital cameras and other electronic equipments  
电脑、数码相机以及其它电子产品

**Product Identification 产品标识****SCWI 0603 UF 10N J S T**

① ② ③ ④ ⑤ ⑥ ⑦

- ① Series name 系列名称
- ② Dimension 产品尺寸
- ③ Base materials 基体材质【UF IF】
- ④ Inductance 电感量【R10=100nH 1R0=1.0μH 100=10μH】
- ⑤ Tolerance of Inductance 电感量公差【J: ±5% K: ±10% M: ±20%】
- ⑥ Terminal 电极【S:镀锡】
- ⑦ Packing Style 包装方式【T: Taping 编带盘装 B: Bulk 散装】

**Shapes And Dimensions 外形及尺寸示意图**

| Series     | Dimensions(mm) [inch] |                 |                 |                 |                 |                 |                 |
|------------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|            | A Max.                | B Max.          | C Max.          | D Typ.          | E Typ.          | F Typ.          | G Typ.          |
| SCWI0603UF | 1.78<br>[0.070]       | 1.10<br>[0.043] | 0.95<br>[0.037] | 0.30<br>[0.012] | 1.02<br>[0.04]  | 0.64<br>[0.025] | 0.64<br>[0.025] |
| SCWI0805UF | 2.3<br>[0.091]        | 1.70<br>[0.067] | 1.52<br>[0.060] | 0.50<br>[0.020] | 1.78<br>[0.070] | 1.02<br>[0.040] | 0.76<br>[0.030] |
| SCWI1008IF | 2.92<br>[0.115]       | 2.79<br>[0.110] | 2.10<br>[0.083] | 0.50<br>[0.020] | 2.54<br>[0.100] | 1.02<br>[0.040] | 1.27<br>[0.050] |
| SCWI1210IF | 3.50<br>[0.138]       | 2.90<br>[0.114] | 2.25<br>[0.088] | 0.50<br>[0.020] | 2.54<br>[0.100] | 1.02<br>[0.040] | 1.78<br>[0.070] |
| SCWI1812IF | 4.80<br>[0.189]       | 3.40<br>[0.134] | 3.15<br>[0.124] | 0.65<br>[0.026] | 3.05<br>[0.120] | 1.14<br>[0.045] | 3.00<br>[0.118] |

**Electrical Characteristics 电气性能**

SCWI0603UF Series

| Part Number      | L(nH)      | Tolerance (%) | Q (Min.)  | SRF Min. (MHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|------------------|------------|---------------|-----------|----------------|--------------|-------------------------|
| SCWI0603UFR10_ST | 100@7.9MHz | 10,5          | 12@7.9MHz | 1150           | 0.13         | 1000                    |
| SCWI0603UFR12_ST | 120@7.9MHz | 10,5          | 12@7.9MHz | 1100           | 0.16         | 900                     |
| SCWI0603UFR15_ST | 150@7.9MHz | 10,5          | 12@7.9MHz | 1050           | 0.15         | 700                     |
| SCWI0603UFR18_ST | 180@7.9MHz | 10,5          | 12@7.9MHz | 950            | 0.15         | 600                     |
| SCWI0603UFR22_ST | 220@7.9MHz | 10,5          | 12@7.9MHz | 900            | 0.16         | 500                     |
| SCWI0603UFR27_ST | 270@7.9MHz | 10,5          | 12@7.9MHz | 775            | 0.30         | 420                     |
| SCWI0603UFR33_ST | 330@7.9MHz | 10,5          | 12@7.9MHz | 725            | 0.32         | 400                     |
| SCWI0603UFR39_ST | 390@7.9MHz | 10,5          | 12@7.9MHz | 620            | 0.51         | 380                     |
| SCWI0603UFR47_ST | 470@7.9MHz | 10,5          | 12@7.9MHz | 540            | 0.62         | 350                     |
| SCWI0603UFR56_ST | 560@7.9MHz | 10,5          | 12@7.9MHz | 600            | 0.65         | 330                     |
| SCWI0603UFR68_ST | 680@7.9MHz | 10,5          | 12@7.9MHz | 500            | 1.00         | 1000                    |
| SCWI0603UFR82_ST | 820@7.9MHz | 10,5          | 12@7.9MHz | 500            | 1.30         | 1000                    |
| SCWI0603UF1R0_ST | 1000@7.9MH | 10,5          | 12@7.9MHz | 400            | 1.50         | 1000                    |
| SCWI0603UF1R2_ST | 1200@7.9MH | 10,5          | 12@7.9MHz | 380            | 1.70         | 320                     |
| SCWI0603UF1R5_ST | 1500@7.9MH | 10,5          | 12@7.9MHz | 300            | 1.90         | 310                     |
| SCWI0603UF1R8_ST | 1800@7.9MH | 10,5          | 12@7.9MHz | 180            | 2.20         | 300                     |
| SCWI0603UF2R2_ST | 2200@7.9MH | 10,5          | 12@7.9MHz | 180            | 2.30         | 280                     |
| SCWI0603UF2R7_ST | 2700@7.9MH | 10,5          | 12@7.9MHz | 150            | 2.60         | 250                     |
| SCWI0603UF3R3_ST | 3300@7.9MH | 10,5          | 12@7.9MHz | 150            | 2.90         | 230                     |
| SCWI0603UF3R9_ST | 3900@7.9MH | 10,5          | 12@7.9MHz | 120            | 3.20         | 210                     |
| SCWI0603UF4R7_ST | 4700@7.9MH | 10,5          | 12@7.9MHz | 100            | 4.00         | 200                     |

SCWI0805UF Series

| Part Number      | L(μH)       | Tolerance (%) | Q (Min.)   | SRF Min. (MHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|------------------|-------------|---------------|------------|----------------|--------------|-------------------------|
| SCWI0805UF1R0_ST | 1.0@7.96MHz | 10,5          | 12@7.96MHz | 360            | 1.00         | 430                     |
| SCWI0805UF1R2_ST | 1.2@7.96MHz | 10,5          | 12@7.96MHz | 350            | 1.15         | 410                     |
| SCWI0805UF1R5_ST | 1.5@7.96MHz | 10,5          | 12@7.96MHz | 300            | 1.20         | 400                     |
| SCWI0805UF1R8_ST | 1.8@7.96MHz | 10,5          | 12@7.96MHz | 200            | 1.35         | 380                     |
| SCWI0805UF2R2_ST | 2.2@7.96MHz | 10,5          | 12@7.96MHz | 170            | 1.50         | 350                     |
| SCWI0805UF2R7_ST | 2.7@7.96MHz | 10,5          | 12@7.96MHz | 100            | 1.70         | 320                     |
| SCWI0805UF3R3_ST | 3.3@7.96MHz | 10,5          | 12@7.96MHz | 90             | 1.80         | 300                     |
| SCWI0805UF3R9_ST | 3.9@7.96MHz | 10,5          | 12@7.96MHz | 90             | 1.95         | 280                     |
| SCWI0805UF4R7_ST | 4.7@7.96MHz | 10,5          | 12@7.96MHz | 85             | 2.05         | 250                     |
| SCWI0805UF5R6_ST | 5.6@7.96MHz | 10,5          | 12@7.96MHz | 70             | 2.30         | 240                     |
| SCWI0805UF6R8_ST | 6.8@7.96MHz | 10,5          | 12@7.96MHz | 55             | 2.60         | 220                     |

**Electrical Characteristics 电气性能**

## SCWI0805UF Series

| Part Number      | L(μH)       | Tolerance (%) | Q (Min.)   | SRF Min. (MHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|------------------|-------------|---------------|------------|----------------|--------------|-------------------------|
| SCWI0805UF7R5_ST | 7.5@7.96MHz | 10,5          | 12@7.96MHz | 55             | 2.80         | 210                     |
| SCWI0805UF8R2_ST | 8.2@7.96MHz | 10,5          | 12@7.96MHz | 50             | 3.00         | 180                     |
| SCWI0805UF100_ST | 10@2.52MHz  | 10,5          | 10@2.52MHz | 30             | 3.20         | 150                     |
| SCWI0805UF120_ST | 12@2.52MHz  | 10,5          | 10@2.52MHz | 17             | 3.50         | 110                     |
| SCWI0805UF150_ST | 15@2.52MHz  | 10,5          | 10@2.52MHz | 16             | 4.20         | 100                     |
| SCWI0805UF180_ST | 18@2.52MHz  | 10,5          | 10@2.52MHz | 15             | 4.50         | 95                      |
| SCWI0805UF220_ST | 22@2.52MHz  | 10,5          | 10@2.52MHz | 14             | 6.00         | 80                      |

## SCWI1008IF Series

| Part Number      | L(μH)       | Tolerance (%) | Q (Min.)   | SRF Min. (MHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|------------------|-------------|---------------|------------|----------------|--------------|-------------------------|
| SCWI1008IF1R0_ST | 1.0@25.2MHz | 10,5          | 18@25.2MHz | 300            | 0.55         | 580                     |
| SCWI1008IF1R2_ST | 1.2@7.96MHz | 10,5          | 18@7.96MHz | 250            | 0.75         | 550                     |
| SCWI1008IF1R5_ST | 1.5@7.96MHz | 10,5          | 18@7.96MHz | 230            | 0.85         | 400                     |
| SCWI1008IF1R8_ST | 1.8@7.96MHz | 10,5          | 18@7.96MHz | 168            | 0.95         | 320                     |
| SCWI1008IF2R2_ST | 2.2@7.96MHz | 10,5          | 18@7.96MHz | 150            | 1.30         | 315                     |
| SCWI1008IF2R7_ST | 2.7@7.96MHz | 10,5          | 18@7.96MHz | 100            | 1.40         | 300                     |
| SCWI1008IF3R3_ST | 3.3@7.96MHz | 10,5          | 18@7.96MHz | 80             | 1.50         | 280                     |
| SCWI1008IF3R9_ST | 3.9@7.96MHz | 10,5          | 18@7.96MHz | 60             | 1.55         | 250                     |
| SCWI1008IF4R7_ST | 4.7@7.96MHz | 10,5          | 18@7.96MHz | 50             | 1.75         | 210                     |
| SCWI1008IF5R6_ST | 5.6@7.96MHz | 10,5          | 15@7.96MHz | 40             | 1.90         | 190                     |
| SCWI1008IF6R8_ST | 6.8@7.96MHz | 10,5          | 15@7.96MHz | 35             | 2.00         | 175                     |
| SCWI1008IF7R5_ST | 7.5@7.96MHz | 10,5          | 15@7.96MHz | 30             | 2.10         | 170                     |
| SCWI1008IF8R2_ST | 8.2@7.96MHz | 10,5          | 15@7.96MHz | 25             | 2.20         | 160                     |
| SCWI1008IF100_ST | 10@2.52MHz  | 10,5          | 12@2.52MHz | 25             | 2.50         | 155                     |
| SCWI1008IF120_ST | 12@2.52MHz  | 10,5          | 12@2.52MHz | 20             | 2.60         | 145                     |
| SCWI1008IF150_ST | 15@2.52MHz  | 10,5          | 12@2.52MHz | 20             | 3.00         | 130                     |
| SCWI1008IF180_ST | 18@2.52MHz  | 10,5          | 12@2.52MHz | 20             | 3.00         | 130                     |
| SCWI1008IF220_ST | 22@2.52MHz  | 10,5          | 12@2.52MHz | 18             | 3.90         | 105                     |
| SCWI1008IF270_ST | 27@2.52MHz  | 10,5          | 12@2.52MHz | 10             | 4.00         | 100                     |
| SCWI1008IF330_ST | 33@2.52MHz  | 10,5          | 10@2.52MHz | 8.0            | 4.80         | 85                      |
| SCWI1008IF390_ST | 39@2.52MHz  | 10,5          | 10@2.52MHz | 7.0            | 5.00         | 80                      |
| SCWI1008IF470_ST | 47@2.52MHz  | 10,5          | 10@2.52MHz | 7.0            | 5.70         | 60                      |
| SCWI1008IF560_ST | 56@2.52MHz  | 10,5          | 10@2.52MHz | 6.5            | 6.00         | 55                      |
| SCWI1008IF680_ST | 68@2.52MHz  | 10,5          | 10@2.52MHz | 6.5            | 6.70         | 50                      |

**Electrical Characteristics 电气性能**

## SCWI1008IF Series

| Part Number      | L(μH)        | Tolerance (%) | Q (Min.)   | SRF Min. (MHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|------------------|--------------|---------------|------------|----------------|--------------|-------------------------|
| SCWI1008IF820_ST | 82@2.52MHz   | 10,5          | 10@2.52MHz | 6.5            | 7.50         | 45                      |
| SCWI1008IF101_ST | 100@0.796MHz | 10,5          | 8@0.796MHz | 4.5            | 11.0         | 40                      |
| SCWI1008IF121_ST | 120@0.796MHz | 10,5          | 8@0.796MHz | 3.0            | 13.0         | 30                      |
| SCWI1008IF151_ST | 150@0.796MHz | 10,5          | 8@0.796MHz | 3.0            | 15.0         | 25                      |
| SCWI1008IF221_ST | 220@0.796MHz | 10            | 8@0.796MHz | 2.5            | 18.0         | 20                      |

## SCWI1210IF Series

| Part Number      | L(μH)        | Tolerance (%) | Q (Min.)    | SRF Min. (MHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|------------------|--------------|---------------|-------------|----------------|--------------|-------------------------|
| SCWI1210IF1R0_ST | 1.0@7.96MHz  | 10,5          | 20@7.96MHz  | 220            | 0.3          | 450                     |
| SCWI1210IF1R2_ST | 1.2@7.96MHz  | 10,5          | 20@7.96MHz  | 210            | 0.3          | 450                     |
| SCWI1210IF1R5_ST | 1.5@7.96MHz  | 10,5          | 20@7.96MHz  | 200            | 0.4          | 450                     |
| SCWI1210IF1R8_ST | 1.8@7.96MHz  | 10,5          | 20@7.96MHz  | 195            | 0.5          | 450                     |
| SCWI1210IF2R2_ST | 2.2@7.96MHz  | 10,5          | 20@7.96MHz  | 175            | 0.6          | 450                     |
| SCWI1210IF2R7_ST | 2.7@7.96MHz  | 10,5          | 20@7.96MHz  | 120            | 0.7          | 420                     |
| SCWI1210IF3R3_ST | 3.3@7.96MHz  | 10,5          | 20@7.96MHz  | 80             | 1.1          | 380                     |
| SCWI1210IF3R9_ST | 3.9@7.96MHz  | 10,5          | 20@7.96MHz  | 75             | 1.2          | 360                     |
| SCWI1210IF4R7_ST | 4.7@7.96MHz  | 10,5          | 18@7.96MHz  | 60             | 1.3          | 350                     |
| SCWI1210IF5R6_ST | 5.6@7.96MHz  | 10,5          | 18@7.96MHz  | 50             | 2.0          | 320                     |
| SCWI1210IF6R8_ST | 6.8@7.96MHz  | 10,5          | 18@7.96MHz  | 35             | 1.5          | 310                     |
| SCWI1210IF8R2_ST | 8.2@7.96MHz  | 10,5          | 18@7.96MHz  | 35             | 1.6          | 305                     |
| SCWI1210IF100_ST | 10@2.52MHz   | 10,5          | 15@2.52MHz  | 30             | 1.0          | 300                     |
| SCWI1210IF120_ST | 12@2.52MHz   | 10,5          | 15@2.52MHz  | 25             | 1.2          | 265                     |
| SCWI1210IF150_ST | 15@2.52MHz   | 10,5          | 15@2.52MHz  | 22             | 2.0          | 225                     |
| SCWI1210IF180_ST | 18@2.52MHz   | 10,5          | 15@2.52MHz  | 22             | 2.1          | 210                     |
| SCWI1210IF220_ST | 22@2.52MHz   | 10,5          | 15@2.52MHz  | 20             | 2.4          | 200                     |
| SCWI1210IF270_ST | 27@2.52MHz   | 10,5          | 15@2.52MHz  | 18             | 2.7          | 180                     |
| SCWI1210IF330_ST | 33@2.52MHz   | 10,5          | 15@2.52MHz  | 15             | 2.9          | 160                     |
| SCWI1210IF390_ST | 39@2.52MHz   | 10,5          | 15@2.52MHz  | 16             | 4.7          | 150                     |
| SCWI1210IF470_ST | 47@2.52MHz   | 10,5          | 15@2.52MHz  | 10             | 5.2          | 140                     |
| SCWI1210IF560_ST | 56@2.52MHz   | 10,5          | 15@2.52MHz  | 8.0            | 5.6          | 125                     |
| SCWI1210IF680_ST | 68@2.52MHz   | 10,5          | 12@2.52MHz  | 5.0            | 4.7          | 110                     |
| SCWI1210IF820_ST | 82@2.52MHz   | 10,5          | 12@2.52MHz  | 5.0            | 5.6          | 100                     |
| SCWI1210IF101_ST | 100@0.796MHz | 10,5          | 10@0.796MHz | 5.0            | 6.8          | 95                      |
| SCWI1210IF121_ST | 120@0.796MHz | 10,5          | 10@0.796MHz | 4.0            | 7.9          | 85                      |

**Electrical Characteristics 电气性能**

## SCWI1210IF Series

| Part Number      | L(μH)        | Tolerance (%) | Q (Min.)    | SRF Min. (MHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|------------------|--------------|---------------|-------------|----------------|--------------|-------------------------|
| SCWI1210IF151_ST | 150@0.796MHz | 10,5          | 10@0.796MHz | 4.0            | 9.0          | 80                      |
| SCWI1210IF181_ST | 180@0.796MHz | 10,5          | 8@0.796MHz  | 3.0            | 14.5         | 70                      |
| SCWI1210IF221_ST | 220@0.796MHz | 10,5          | 8@0.796MHz  | 2.6            | 16.5         | 65                      |
| SCWI1210IF271_ST | 270@0.796MHz | 10            | 8@0.796MHz  | 2.5            | 18.0         | 60                      |
| SCWI1210IF331_ST | 330@0.796MHz | 10            | 8@0.796MHz  | 2.3            | 19.0         | 55                      |
| SCWI1210IF391_ST | 390@0.796MHz | 10            | 8@0.796MHz  | 2.2            | 21.5         | 45                      |
| SCWI1210IF471_ST | 470@0.796MHz | 10            | 8@0.796MHz  | 2.0            | 22.5         | 40                      |
| SCWI1210IF561_ST | 560@0.796MHz | 10            | 6@0.796MHz  | 1.5            | 28.0         | 30                      |

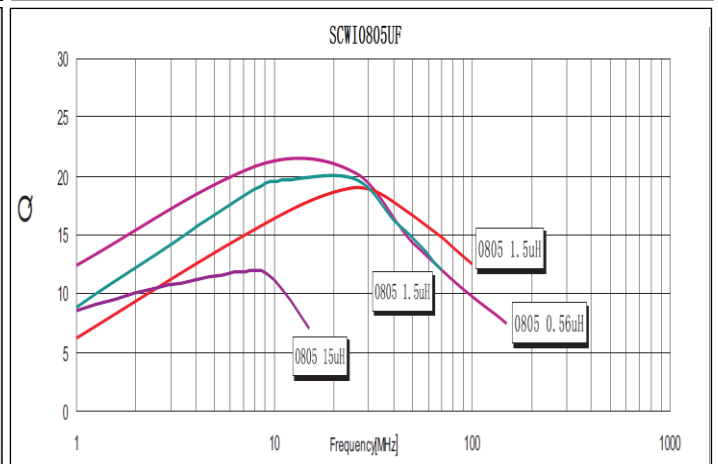
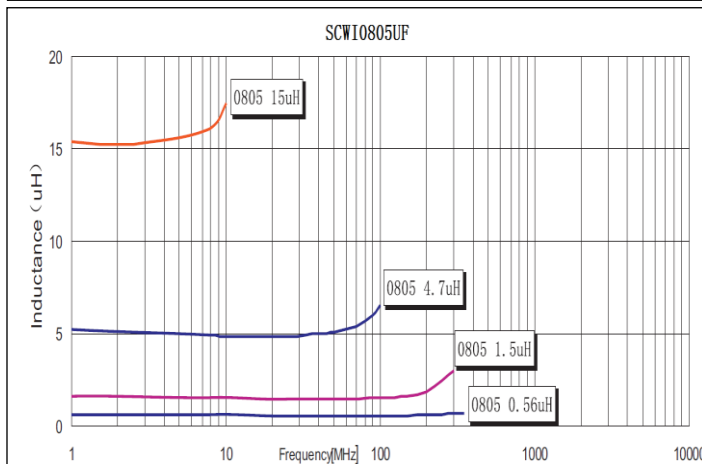
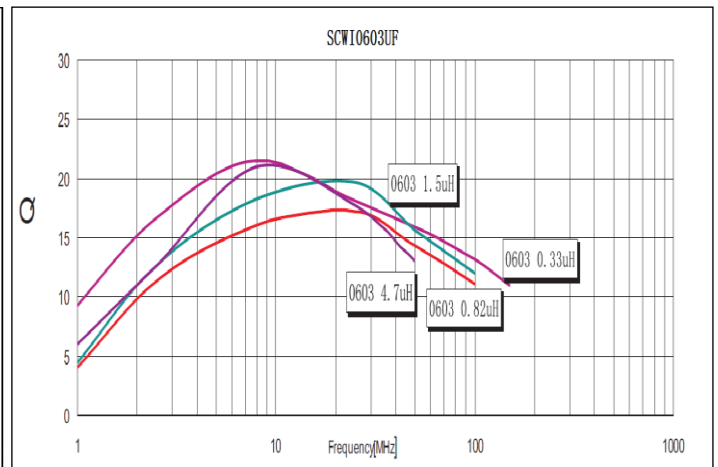
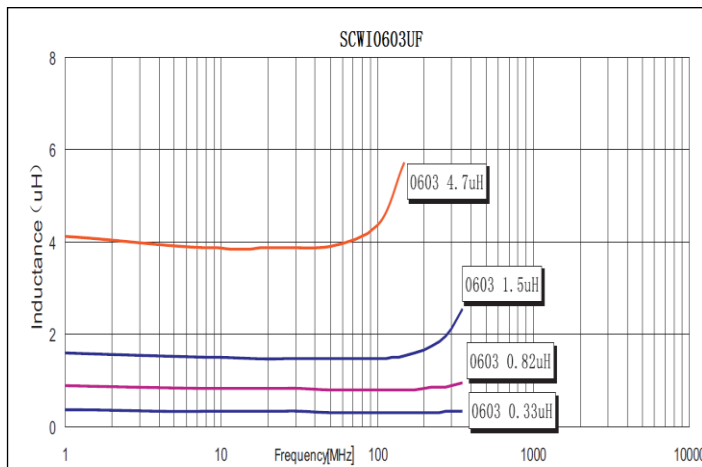
## SCWI1812IF Series

| Part Number      | L(μH)       | Tolerance (%) | Q (Min.)   | SRF Min. (MHz) | DCR Max. (Ω) | Rated Current Max. (mA) |
|------------------|-------------|---------------|------------|----------------|--------------|-------------------------|
| SCWI1812IF1R0_ST | 1.0@7.96MHz | 10,5          | 25@7.96MHz | 200            | 0.22         | 1000                    |
| SCWI1812IF1R2_ST | 1.2@7.96MHz | 10,5          | 25@7.96MHz | 200            | 0.35         | 1000                    |
| SCWI1812IF1R5_ST | 1.5@7.96MHz | 10,5          | 25@7.96MHz | 180            | 0.32         | 1000                    |
| SCWI1812IF1R8_ST | 1.8@7.96MHz | 10,5          | 25@7.96MHz | 160            | 0.35         | 950                     |
| SCWI1812IF2R2_ST | 2.2@7.96MHz | 10,5          | 25@7.96MHz | 150            | 0.37         | 900                     |
| SCWI1812IF2R7_ST | 2.7@7.96MHz | 10,5          | 25@7.96MHz | 145            | 0.37         | 850                     |
| SCWI1812IF3R3_ST | 3.3@7.96MHz | 10,5          | 25@7.96MHz | 140            | 0.48         | 800                     |
| SCWI1812IF3R9_ST | 3.9@7.96MHz | 10,5          | 25@7.96MHz | 135            | 0.60         | 750                     |
| SCWI1812IF4R7_ST | 4.7@7.96MHz | 10,5          | 25@7.96MHz | 120            | 1.00         | 700                     |
| SCWI1812IF5R6_ST | 5.6@7.96MHz | 10,5          | 25@7.96MHz | 110            | 0.55         | 650                     |
| SCWI1812IF6R8_ST | 6.8@7.96MHz | 10,5          | 25@7.96MHz | 80             | 0.80         | 600                     |
| SCWI1812IF8R2_ST | 8.2@7.96MHz | 10,5          | 20@7.96MHz | 70             | 0.85         | 600                     |
| SCWI1812IF100_ST | 10@2.52MHz  | 10,5          | 20@2.52MHz | 60             | 1.0          | 550                     |
| SCWI1812IF120_ST | 12@2.52MHz  | 10,5          | 20@2.52MHz | 55             | 1.1          | 550                     |
| SCWI1812IF150_ST | 15@2.52MHz  | 10,5          | 18@2.52MHz | 35             | 1.2          | 500                     |
| SCWI1812IF180_ST | 18@2.52MHz  | 10,5          | 18@2.52MHz | 29             | 1.2          | 500                     |
| SCWI1812IF220_ST | 22@2.52MHz  | 10,5          | 18@2.52MHz | 20             | 1.3          | 450                     |
| SCWI1812IF270_ST | 27@2.52MHz  | 10,5          | 18@2.52MHz | 20             | 1.5          | 400                     |
| SCWI1812IF330_ST | 33@2.52MHz  | 10,5          | 18@2.52MHz | 18             | 1.7          | 350                     |
| SCWI1812IF390_ST | 39@2.52MHz  | 10,5          | 18@2.52MHz | 14             | 1.8          | 350                     |
| SCWI1812IF470_ST | 47@2.52MHz  | 10,5          | 16@2.52MHz | 10             | 2.0          | 300                     |
| SCWI1812IF560_ST | 56@2.52MHz  | 10,5          | 16@2.52MHz | 10             | 2.2          | 290                     |
| SCWI1812IF680_ST | 68@2.52MHz  | 10,5          | 12@2.52MHz | 5.4            | 2.4          | 260                     |

**Electrical Characteristics 电气性能**

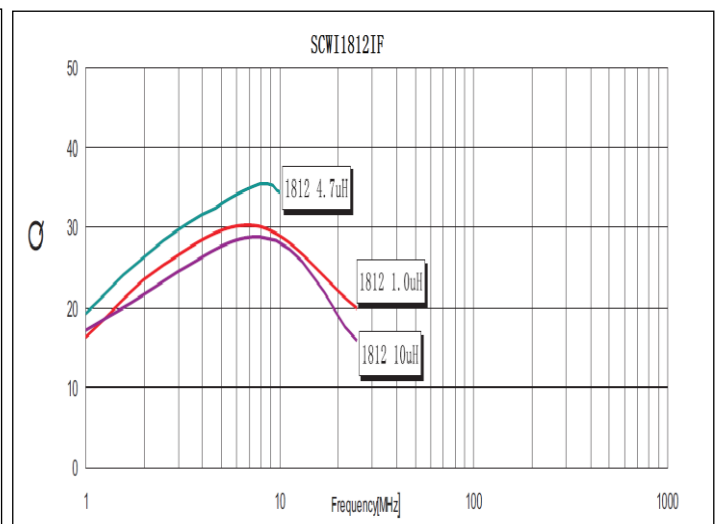
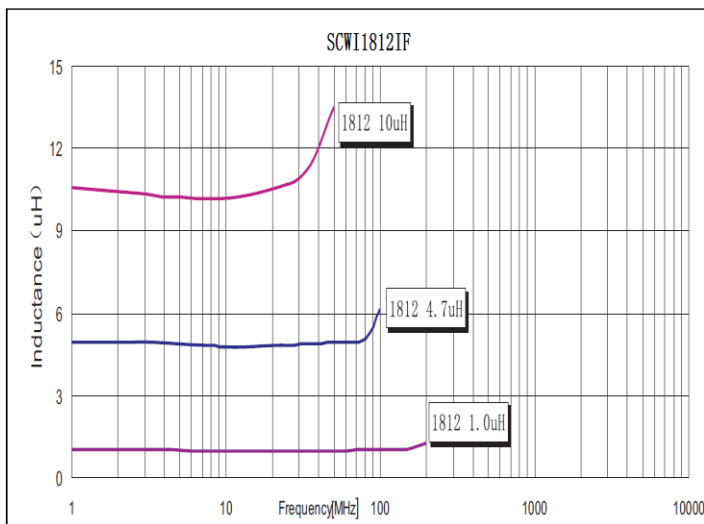
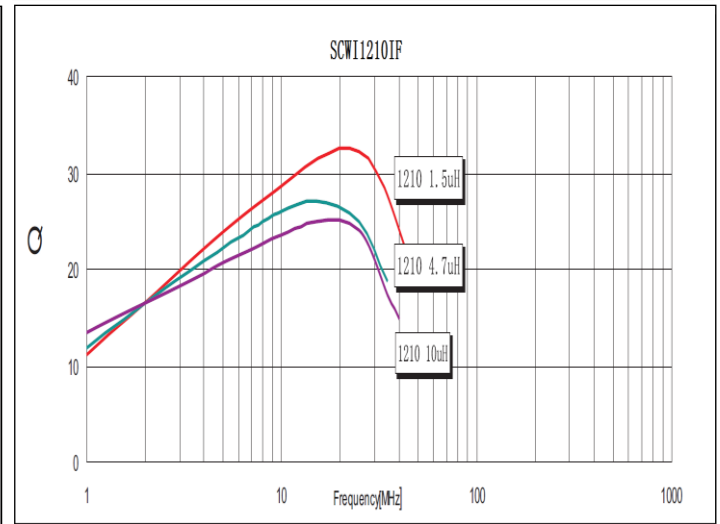
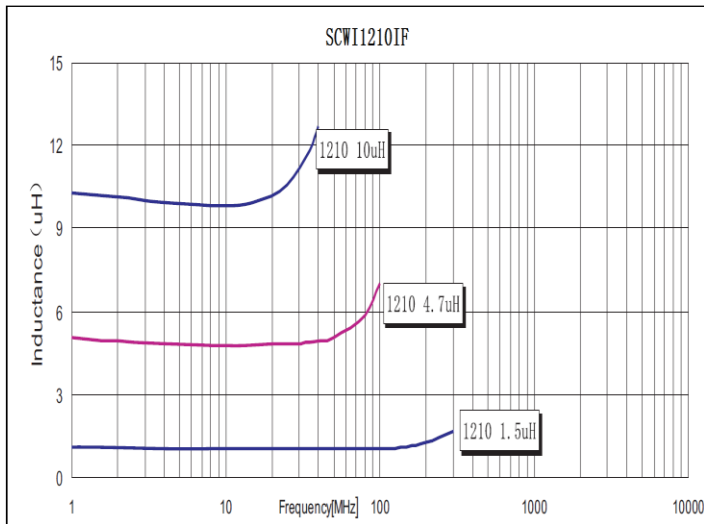
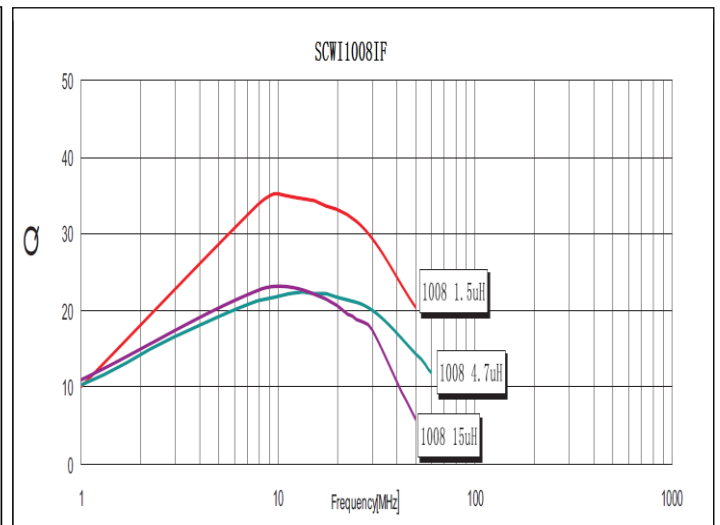
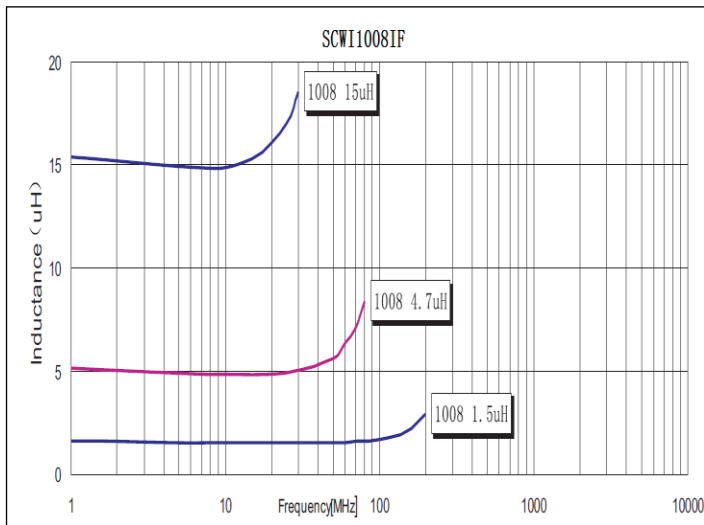
## SCWI1812IF Series

| Part Number      | L( $\mu$ H)   | Tolerance (%) | Q (Min.)    | SRF Min. (MHz) | DCR Max. ( $\Omega$ ) | Rated Current Max. (mA) |
|------------------|---------------|---------------|-------------|----------------|-----------------------|-------------------------|
| SCWI1812IF820_ST | 82@2.52MHz    | 10,5          | 12@2.52MHz  | 5.2            | 2.8                   | 240                     |
| SCWI1812IF101_ST | 100@0.796MHz  | 10,5          | 12@0.796MHz | 4.0            | 3.0                   | 220                     |
| SCWI1812IF121_ST | 120@0.796MHz  | 10,5          | 10@0.796MHz | 3.3            | 3.3                   | 220                     |
| SCWI1812IF151_ST | 150@0.796MHz  | 10,5          | 10@0.796MHz | 3.0            | 3.7                   | 200                     |
| SCWI1812IF181_ST | 180@0.796MHz  | 10,5          | 10@0.796MHz | 3.0            | 4.5                   | 200                     |
| SCWI1812IF221_ST | 220@0.796MHz  | 10            | 10@0.796MHz | 2.5            | 8.0                   | 170                     |
| SCWI1812IF271_ST | 270@0.796MHz  | 10,5          | 10@0.796MHz | 2.2            | 8.5                   | 160                     |
| SCWI1812IF331_ST | 330@0.796MHz  | 10,5          | 10@0.796MHz | 2.0            | 9.0                   | 150                     |
| SCWI1812IF391_ST | 390@0.796MHz  | 10            | 10@0.796MHz | 1.8            | 9.5                   | 130                     |
| SCWI1812IF471_ST | 470@0.796MHz  | 10            | 8@0.796MHz  | 1.6            | 12.0                  | 120                     |
| SCWI1812IF561_ST | 560@0.796MHz  | 10            | 8@0.796MHz  | 1.5            | 12.5                  | 110                     |
| SCWI1812IF681_ST | 680@0.796MHz  | 10            | 8@0.796MHz  | 1.5            | 14.0                  | 100                     |
| SCWI1812IF751_ST | 750@0.796MHz  | 10            | 8@0.796MHz  | 1.5            | 14.5                  | 95                      |
| SCWI1812IF821_ST | 820@0.796MHz  | 10            | 8@0.796MHz  | 1.5            | 15.0                  | 95                      |
| SCWI1812IF102_ST | 1000@0.252MHz | 10            | 6@0.252MHz  | 1.4            | 16.5                  | 90                      |

**Characteristic curve 特性曲线**



## Characteristic curve 特性曲线

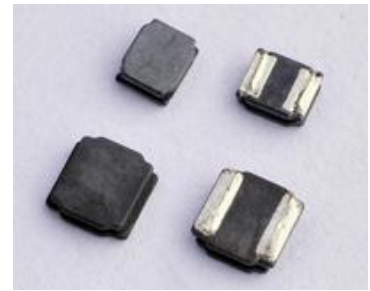




## SMD Power Inductor SCNR Series贴片功率电感SCNR系列

### Features特点

- Low profile 超薄
- Magnetically shielded structure that ensures the high-density mounting configurations  
高密度封装的磁屏蔽结构
- Flat bottom surface ensures secure, reliable mounting.  
平坦焊面便于安装



### Applications应用

- Ideally used in Portable telephones, PDA, DSC, DC-DC Converters, etc.  
用于手机、掌上电脑、数字信号控制器，DC-DC转换等。

### Product Identification 产品标识

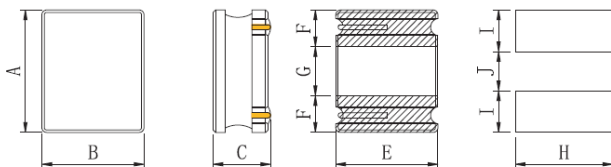
SCNR 3015 - 3R3 M T

① ② ③ ④ ⑤

- ① Series name 系列名称
- ② Product dimensions 产品尺寸: 【3015=3.0\*3.0\*1.5mm】
- ③ Inductance Value 电感量: 【R68=0.68 $\mu$ H 3R3=3.3 $\mu$ H 100=10 $\mu$ H】
- ④ Inductance Tolerance 电感量公差: 【M=±20%; N=±30%】
- ⑤ Packing Style: 【T: Taping 编带盘装 B: Bulk 散装】

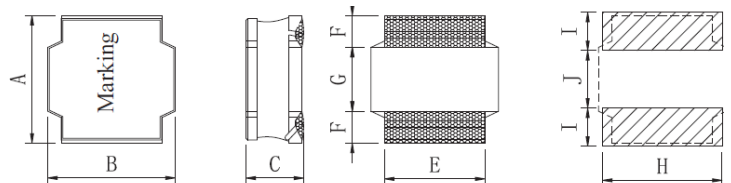
### Shapes And Dimensions 外形及尺寸示意图

SCNR2512



推荐焊盘

SCNR30~80



推荐焊盘

| Series   | Dimensions(mm) |         |        |        |        |        |        |        |        |
|----------|----------------|---------|--------|--------|--------|--------|--------|--------|--------|
|          | A              | B       | C Max. | E Ref. | F Ref. | G Ref. | H Ref. | I Ref. | J Ref. |
| SCNR2512 | 2.5±0.2        | 2.1±0.2 | 1.25   | 2.1    | 0.85   | 0.8    | 2.1    | 0.85   | 0.80   |
| SCNR3015 | 3.0±0.2        | 3.0±0.2 | 1.5    | 2.8    | 0.85   | 1.3    | 3.0    | 0.90   | 1.3    |
| SCNR4018 | 4.0±0.2        | 4.0±0.2 | 1.8    | 3.4    | 1.2    | 1.6    | 3.6    | 1.4    | 1.6    |
| SCNR4026 | 4.0±0.2        | 4.0±0.2 | 2.6    | 3.4    | 1.2    | 1.6    | 3.6    | 1.4    | 1.6    |
| SCNR5020 | 5.0±0.2        | 5.0±0.2 | 2.1    | 4.0    | 1.2    | 2.6    | 4.4    | 1.6    | 2.4    |
| SCNR5045 | 5.0±0.2        | 5.0±0.2 | 4.5    | 4.0    | 1.2    | 2.6    | 4.4    | 1.6    | 2.4    |
| SCNR6020 | 6.0±0.2        | 6.0±0.2 | 2.0    | 5.0    | 1.5    | 3.0    | 5.7    | 1.9    | 2.6    |
| SCNR6028 | 6.0±0.2        | 6.0±0.2 | 2.8    | 5.0    | 1.5    | 3.0    | 5.7    | 1.9    | 2.6    |
| SCNR6045 | 6.0±0.2        | 6.0±0.2 | 4.5    | 5.0    | 1.5    | 3.0    | 5.7    | 1.9    | 2.6    |
| SCNR8040 | 8.0±0.2        | 8.0±0.2 | 4.3    | 6.4    | 2.0    | 4.0    | 7.5    | 2.4    | 3.6    |

**Electrical Characteristics**电气性能

## SCNR2512 Series

| Part Number    | L(μH) | Tolerance(±%) | Test Freq.(MHz) | RDC (Ω) Max. | Isat(A) | Irms(A) |
|----------------|-------|---------------|-----------------|--------------|---------|---------|
| SCNR2512-R47NT | 0.47  | 30            | 1               | 0.061        | 3.82    | 2.15    |
| SCNR2512-R68NT | 0.68  | 30            | 1               | 0.074        | 3.28    | 1.96    |
| SCNR2512-1R0NT | 1.0   | 30            | 1               | 0.090        | 2.59    | 1.93    |
| SCNR2512-1R5NT | 1.5   | 30            | 1               | 0.147        | 2.24    | 1.40    |
| SCNR2512-2R2MT | 2.2   | 20            | 1               | 0.216        | 1.85    | 1.15    |
| SCNR2512-3R3MT | 3.3   | 20            | 1               | 0.264        | 1.61    | 1.04    |
| SCNR2512-4R7MT | 4.7   | 20            | 1               | 0.377        | 1.12    | 0.84    |
| SCNR2512-5R6MT | 5.6   | 20            | 1               | 0.538        | 1.12    | 0.73    |
| SCNR2512-6R8MT | 6.8   | 20            | 1               | 0.581        | 0.98    | 0.69    |
| SCNR2512-8R2MT | 8.2   | 20            | 1               | 0.658        | 0.98    | 0.65    |
| SCNR2512-100MT | 10    | 20            | 1               | 0.690        | 0.79    | 0.62    |
| SCNR2512-150MT | 15    | 20            | 1               | 1.591        | 0.68    | 0.42    |
| SCNR2512-220MT | 22    | 20            | 1               | 1.976        | 0.53    | 0.38    |

## SCNR3015 Series

| Part Number    | L(μH) | Tolerance(±%) | Test Freq.(KHz) | RDC (Ω)   | Isat(A) | Irms(A) |
|----------------|-------|---------------|-----------------|-----------|---------|---------|
| SCNR3015-1R0NT | 1.0   | 30            | 100             | 0.030±20% | 2.32    | 2.35    |
| SCNR3015-1R5NT | 1.5   | 30            | 100             | 0.040±20% | 2.30    | 1.70    |
| SCNR3015-2R2NT | 2.2   | 30            | 100             | 0.060±20% | 1.60    | 1.60    |
| SCNR3015-3R3MT | 3.3   | 20            | 100             | 0.080±20% | 1.32    | 1.36    |
| SCNR3015-4R7MT | 4.7   | 20            | 100             | 0.120±20% | 1.10    | 1.09    |
| SCNR3015-5R6MT | 5.6   | 20            | 100             | 0.140±20% | 0.95    | 0.86    |
| SCNR3015-6R8MT | 6.8   | 20            | 100             | 0.160±20% | 0.87    | 0.85    |
| SCNR3015-8R2MT | 8.2   | 20            | 100             | 0.220±20% | 0.80    | 0.80    |
| SCNR3015-100MT | 10    | 20            | 100             | 0.230±20% | 0.72    | 0.77    |
| SCNR3015-150MT | 15    | 20            | 100             | 0.360±20% | 0.66    | 0.65    |
| SCNR3015-220MT | 22    | 20            | 100             | 0.520±20% | 0.52    | 0.57    |
| SCNR3015-330MT | 33    | 20            | 100             | 0.840±20% | 0.44    | 0.43    |
| SCNR3015-470MT | 47    | 20            | 100             | 1.340±20% | 0.35    | 0.35    |

**Electrical Characteristics**电气性能

## SCNR4018 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm\%$ ) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|----------------------|-----------------|------------------|---------|---------|
| SCNR4018-1R0NT | 1.0         | 30                   | 100             | 0.030 $\pm$ 30%  | 4.30    | 2.00    |
| SCNR4018-1R5NT | 1.5         | 30                   | 100             | 0.040 $\pm$ 30%  | 3.35    | 1.80    |
| SCNR4018-2R2NT | 2.2         | 30                   | 100             | 0.045 $\pm$ 30%  | 2.70    | 1.65    |
| SCNR4018-2R7MT | 2.7         | 20                   | 100             | 0.058 $\pm$ 30%  | 2.30    | 1.45    |
| SCNR4018-3R3MT | 3.3         | 20                   | 100             | 0.070 $\pm$ 30%  | 2.00    | 1.23    |
| SCNR4018-4R7MT | 4.7         | 20                   | 100             | 0.090 $\pm$ 30%  | 1.70    | 1.20    |
| SCNR4018-6R8MT | 6.8         | 20                   | 100             | 0.110 $\pm$ 30%  | 1.45    | 1.06    |
| SCNR4018-8R2MT | 8.2         | 20                   | 100             | 0.160 $\pm$ 30%  | 1.35    | 0.90    |
| SCNR4018-100MT | 10          | 20                   | 100             | 0.180 $\pm$ 30%  | 1.30    | 0.84    |
| SCNR4018-150MT | 15          | 20                   | 100             | 0.250 $\pm$ 30%  | 0.94    | 0.65    |
| SCNR4018-220MT | 22          | 20                   | 100             | 0.360 $\pm$ 30%  | 0.80    | 0.59    |
| SCNR4018-330MT | 33          | 20                   | 100             | 0.530 $\pm$ 30%  | 0.65    | 0.49    |
| SCNR4018-470MT | 47          | 20                   | 100             | 0.650 $\pm$ 30%  | 0.57    | 0.42    |
| SCNR4018-560MT | 56          | 20                   | 100             | 0.900 $\pm$ 30%  | 0.51    | 0.38    |
| SCNR4018-680MT | 68          | 20                   | 100             | 1.000 $\pm$ 30%  | 0.47    | 0.32    |
| SCNR4018-820MT | 82          | 20                   | 100             | 1.300 $\pm$ 30%  | 0.43    | 0.28    |
| SCNR4018-101MT | 100         | 20                   | 100             | 1.500 $\pm$ 30%  | 0.40    | 0.25    |

## SCNR4026 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm\%$ ) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|----------------------|-----------------|------------------|---------|---------|
| SCNR4026-1R0NT | 1.0         | 30                   | 100             | 0.017 $\pm$ 30%  | 3.10    | 2.80    |
| SCNR4026-1R5NT | 1.5         | 30                   | 100             | 0.022 $\pm$ 30%  | 2.40    | 2.30    |
| SCNR4026-2R2NT | 2.2         | 30                   | 100             | 0.030 $\pm$ 30%  | 2.10    | 2.00    |
| SCNR4026-3R3MT | 3.3         | 20                   | 100             | 0.037 $\pm$ 30%  | 1.80    | 1.70    |
| SCNR4026-4R7MT | 4.7         | 20                   | 100             | 0.055 $\pm$ 30%  | 1.45    | 1.60    |
| SCNR4026-6R8MT | 6.8         | 20                   | 100             | 0.065 $\pm$ 30%  | 1.30    | 1.50    |
| SCNR4026-100MT | 10          | 20                   | 100             | 0.085 $\pm$ 30%  | 1.00    | 1.30    |
| SCNR4026-150MT | 15          | 20                   | 100             | 0.110 $\pm$ 30%  | 0.90    | 1.10    |
| SCNR4026-220MT | 22          | 20                   | 100             | 0.200 $\pm$ 30%  | 0.60    | 0.90    |
| SCNR4026-330MT | 33          | 20                   | 100             | 0.270 $\pm$ 30%  | 0.54    | 0.70    |
| SCNR4026-470MT | 47          | 20                   | 100             | 0.400 $\pm$ 30%  | 0.40    | 0.65    |

**Electrical Characteristics**电气性能

## SCNR5020 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm\%$ ) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|----------------------|-----------------|------------------|---------|---------|
| SCNR5020-R47NT | 0.47        | 30                   | 100             | 0.016 $\pm$ 30%  | 6.15    | 5.00    |
| SCNR5020-R75NT | 0.75        | 30                   | 100             | 0.018 $\pm$ 30%  | 5.50    | 4.00    |
| SCNR5020-1R0NT | 1.0         | 30                   | 100             | 0.020 $\pm$ 30%  | 4.40    | 3.80    |
| SCNR5020-1R5NT | 1.5         | 30                   | 100             | 0.028 $\pm$ 30%  | 4.10    | 3.20    |
| SCNR5020-2R2NT | 2.2         | 30                   | 100             | 0.033 $\pm$ 30%  | 3.20    | 2.90    |
| SCNR5020-3R3MT | 3.3         | 20                   | 100             | 0.043 $\pm$ 30%  | 2.55    | 2.50    |
| SCNR5020-4R7MT | 4.7         | 20                   | 100             | 0.058 $\pm$ 30%  | 2.50    | 2.20    |
| SCNR5020-5R6MT | 5.6         | 20                   | 100             | 0.068 $\pm$ 30%  | 2.30    | 2.05    |
| SCNR5020-6R8MT | 6.8         | 20                   | 100             | 0.075 $\pm$ 30%  | 2.05    | 1.80    |
| SCNR5020-8R2MT | 8.2         | 20                   | 100             | 0.096 $\pm$ 30%  | 1.85    | 1.65    |
| SCNR5020-100MT | 10          | 20                   | 100             | 0.120 $\pm$ 30%  | 1.70    | 1.55    |
| SCNR5020-150MT | 15          | 20                   | 100             | 0.165 $\pm$ 30%  | 1.35    | 1.25    |
| SCNR5020-180MT | 18          | 20                   | 100             | 0.200 $\pm$ 30%  | 1.25    | 1.15    |
| SCNR5020-220MT | 22          | 20                   | 100             | 0.220 $\pm$ 30%  | 1.15    | 1.10    |
| SCNR5020-330MT | 33          | 20                   | 100             | 0.350 $\pm$ 30%  | 0.92    | 0.90    |
| SCNR5020-390MT | 39          | 20                   | 100             | 0.410 $\pm$ 30%  | 0.80    | 0.75    |
| SCNR5020-470MT | 47          | 20                   | 100             | 0.520 $\pm$ 30%  | 0.77    | 0.77    |
| SCNR5020-560MT | 56          | 20                   | 100             | 0.600 $\pm$ 30%  | 0.77    | 0.70    |
| SCNR5020-680MT | 68          | 20                   | 100             | 0.680 $\pm$ 30%  | 0.65    | 0.64    |
| SCNR5020-820MT | 82          | 20                   | 100             | 0.860 $\pm$ 30%  | 0.55    | 0.55    |
| SCNR5020-101MT | 100         | 20                   | 100             | 1.100 $\pm$ 30%  | 0.53    | 0.53    |

## SCNR5045 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm\%$ ) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|----------------------|-----------------|------------------|---------|---------|
| SCNR5045-1R0NT | 1.0         | 30                   | 100             | 0.012 $\pm$ 30%  | 7.35    | 4.90    |
| SCNR5045-1R5NT | 1.5         | 30                   | 100             | 0.014 $\pm$ 30%  | 6.00    | 4.50    |
| SCNR5045-2R2NT | 2.2         | 30                   | 100             | 0.018 $\pm$ 30%  | 4.90    | 3.80    |
| SCNR5045-3R3NT | 3.3         | 30                   | 100             | 0.024 $\pm$ 30%  | 3.95    | 3.40    |
| SCNR5045-4R7NT | 4.7         | 30                   | 100             | 0.030 $\pm$ 30%  | 3.50    | 3.00    |
| SCNR5045-5R6MT | 5.6         | 20                   | 100             | 0.040 $\pm$ 30%  | 3.00    | 2.80    |
| SCNR5045-6R8MT | 6.8         | 20                   | 100             | 0.045 $\pm$ 30%  | 2.90    | 2.50    |

**Electrical Characteristics**电气性能

## SCNR5045 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm\%$ ) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|----------------------|-----------------|------------------|---------|---------|
| SCNR5045-8R2MT | 8.2         | 20                   | 100             | 0.055 $\pm$ 30%  | 2.70    | 2.30    |
| SCNR5045-100MT | 10          | 20                   | 100             | 0.066 $\pm$ 30%  | 2.35    | 2.10    |
| SCNR5045-150MT | 15          | 20                   | 100             | 0.090 $\pm$ 30%  | 2.00    | 2.00    |
| SCNR5045-220MT | 22          | 20                   | 100             | 0.130 $\pm$ 30%  | 1.60    | 1.50    |
| SCNR5045-330MT | 33          | 20                   | 100             | 0.200 $\pm$ 30%  | 1.30    | 1.20    |
| SCNR5045-390MT | 39          | 20                   | 100             | 0.230 $\pm$ 30%  | 1.20    | 1.10    |
| SCNR5045-470MT | 47          | 20                   | 100             | 0.300 $\pm$ 30%  | 1.00    | 1.00    |
| SCNR5045-560MT | 56          | 20                   | 100             | 0.330 $\pm$ 30%  | 0.95    | 0.85    |
| SCNR5045-680MT | 68          | 20                   | 100             | 0.420 $\pm$ 30%  | 0.90    | 0.80    |
| SCNR5045-820MT | 82          | 20                   | 100             | 0.500 $\pm$ 30%  | 0.80    | 0.75    |
| SCNR5045-101MT | 100         | 20                   | 1               | 0.620 $\pm$ 30%  | 0.75    | 0.70    |
| SCNR5045-151MT | 150         | 20                   | 1               | 0.850 $\pm$ 30%  | 0.65    | 0.60    |
| SCNR5045-181MT | 180         | 20                   | 1               | 1.150 $\pm$ 30%  | 0.50    | 0.43    |
| SCNR5045-221MT | 220         | 20                   | 1               | 1.200 $\pm$ 30%  | 0.46    | 0.42    |
| SCNR5045-331MT | 330         | 20                   | 1               | 1.750 $\pm$ 30%  | 0.40    | 0.36    |
| SCNR5045-391MT | 390         | 20                   | 1               | 2.500 $\pm$ 30%  | 0.35    | 0.32    |
| SCNR5045-471MT | 470         | 20                   | 1               | 2.850 $\pm$ 30%  | 0.32    | 0.30    |
| SCNR5045-561MT | 560         | 20                   | 1               | 3.200 $\pm$ 30%  | 0.30    | 0.28    |
| SCNR5045-681MT | 680         | 20                   | 1               | 3.750 $\pm$ 30%  | 0.27    | 0.25    |
| SCNR5045-821MT | 820         | 20                   | 1               | 5.700 $\pm$ 30%  | 0.24    | 0.22    |
| SCNR5045-102MT | 1000        | 20                   | 1               | 6.500 $\pm$ 30%  | 0.21    | 0.19    |

## SCNR6020 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm\%$ ) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|----------------------|-----------------|------------------|---------|---------|
| SCNR6020-1R0NT | 1.0         | 30                   | 100             | 0.020 $\pm$ 30%  | 4.15    | 3.50    |
| SCNR6020-1R5NT | 1.5         | 30                   | 100             | 0.022 $\pm$ 30%  | 4.00    | 3.20    |
| SCNR6020-2R2NT | 2.2         | 30                   | 100             | 0.028 $\pm$ 30%  | 3.75    | 2.75    |
| SCNR6020-3R3MT | 3.3         | 20                   | 100             | 0.035 $\pm$ 30%  | 3.15    | 2.60    |
| SCNR6020-4R7MT | 4.7         | 20                   | 100             | 0.058 $\pm$ 30%  | 3.00    | 2.00    |
| SCNR6020-6R8MT | 6.8         | 20                   | 100             | 0.079 $\pm$ 30%  | 2.20    | 1.80    |
| SCNR6020-100MT | 10          | 20                   | 100             | 0.105 $\pm$ 30%  | 1.75    | 1.40    |
| SCNR6020-150MT | 15          | 20                   | 100             | 0.145 $\pm$ 30%  | 1.20    | 1.20    |
| SCNR6020-220MT | 22          | 20                   | 100             | 0.204 $\pm$ 30%  | 1.05    | 1.00    |
| SCNR6020-330MT | 33          | 20                   | 100             | 0.300 $\pm$ 30%  | 0.95    | 0.84    |
| SCNR6020-470MT | 47          | 20                   | 100             | 0.430 $\pm$ 30%  | 0.70    | 0.65    |
| SCNR6020-680MT | 68          | 20                   | 100             | 0.660 $\pm$ 30%  | 0.62    | 0.60    |
| SCNR6020-101MT | 100         | 20                   | 100             | 1.200 $\pm$ 30%  | 0.50    | 0.45    |

**Electrical Characteristics**电气性能

## SCNR6028 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm\%$ ) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|----------------------|-----------------|------------------|---------|---------|
| SCNR6028-1R0NT | 1.0         | 30                   | 100             | 0.014 $\pm$ 30%  | 5.75    | 5.20    |
| SCNR6028-1R5NT | 1.5         | 30                   | 100             | 0.016 $\pm$ 30%  | 5.00    | 4.58    |
| SCNR6028-2R2NT | 2.2         | 30                   | 100             | 0.020 $\pm$ 30%  | 5.10    | 3.75    |
| SCNR6028-3R3NT | 3.3         | 30                   | 100             | 0.023 $\pm$ 30%  | 3.60    | 3.48    |
| SCNR6028-4R7NT | 4.7         | 30                   | 100             | 0.031 $\pm$ 30%  | 2.70    | 3.08    |
| SCNR6028-6R8MT | 6.8         | 20                   | 100             | 0.048 $\pm$ 30%  | 2.30    | 2.40    |
| SCNR6028-100MT | 10          | 20                   | 100             | 0.065 $\pm$ 30%  | 1.90    | 1.95    |
| SCNR6028-150MT | 15          | 20                   | 100             | 0.095 $\pm$ 30%  | 1.60    | 1.45    |
| SCNR6028-220MT | 22          | 20                   | 100             | 0.135 $\pm$ 30%  | 1.30    | 1.40    |
| SCNR6028-330MT | 33          | 20                   | 100             | 0.220 $\pm$ 30%  | 1.10    | 1.22    |
| SCNR6028-470MT | 47          | 20                   | 100             | 0.300 $\pm$ 30%  | 0.95    | 1.06    |
| SCNR6028-680MT | 68          | 20                   | 100             | 0.420 $\pm$ 30%  | 0.76    | 0.86    |
| SCNR6028-820MT | 82          | 20                   | 100             | 0.520 $\pm$ 30%  | 0.64    | 0.70    |
| SCNR6028-101MT | 100         | 20                   | 100             | 0.570 $\pm$ 30%  | 0.62    | 0.70    |
| SCNR6028-151MT | 150         | 20                   | 100             | 0.760 $\pm$ 30%  | 0.50    | 0.50    |
| SCNR6028-221MT | 220         | 20                   | 100             | 1.200 $\pm$ 30%  | 0.38    | 0.38    |
| SCNR6028-331MT | 330         | 20                   | 100             | 1.800 $\pm$ 30%  | 0.32    | 0.32    |
| SCNR6028-471MT | 470         | 20                   | 100             | 2.300 $\pm$ 30%  | 0.28    | 0.28    |
| SCNR6028-681MT | 680         | 20                   | 100             | 4.600 $\pm$ 30%  | 0.23    | 0.23    |

## SCNR6045 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm\%$ ) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|----------------------|-----------------|------------------|---------|---------|
| SCNR6045-R82NT | 0.82        | 30                   | 100             | 0.008 $\pm$ 30%  | 10.35   | 5.90    |
| SCNR6045-1R0NT | 1.0         | 30                   | 100             | 0.014 $\pm$ 30%  | 8.50    | 5.14    |
| SCNR6045-1R3NT | 1.3         | 30                   | 100             | 0.016 $\pm$ 30%  | 8.00    | 5.05    |
| SCNR6045-1R8NT | 1.8         | 30                   | 100             | 0.018 $\pm$ 30%  | 7.00    | 4.95    |
| SCNR6045-2R2NT | 2.2         | 30                   | 100             | 0.021 $\pm$ 30%  | 6.00    | 4.60    |
| SCNR6045-3R0MT | 3.0         | 20                   | 100             | 0.024 $\pm$ 30%  | 5.00    | 3.80    |
| SCNR6045-3R3MT | 3.3         | 20                   | 100             | 0.024 $\pm$ 30%  | 5.00    | 3.70    |
| SCNR6045-4R5MT | 4.5         | 20                   | 100             | 0.031 $\pm$ 30%  | 4.00    | 3.30    |
| SCNR6045-4R7MT | 4.7         | 20                   | 100             | 0.031 $\pm$ 30%  | 4.00    | 3.30    |
| SCNR6045-6R3MT | 6.3         | 20                   | 100             | 0.035 $\pm$ 30%  | 3.80    | 3.15    |
| SCNR6045-6R8MT | 6.8         | 20                   | 100             | 0.038 $\pm$ 30%  | 3.80    | 3.00    |
| SCNR6045-8R2MT | 8.2         | 20                   | 100             | 0.043 $\pm$ 30%  | 3.50    | 2.70    |
| SCNR6045-100MT | 10          | 20                   | 100             | 0.047 $\pm$ 30%  | 3.20    | 2.45    |
| SCNR6045-150MT | 15          | 20                   | 100             | 0.077 $\pm$ 30%  | 2.50    | 2.05    |
| SCNR6045-220MT | 22          | 20                   | 100             | 0.115 $\pm$ 30%  | 2.05    | 1.80    |
| SCNR6045-330MT | 33          | 20                   | 100             | 0.145 $\pm$ 30%  | 1.65    | 1.45    |
| SCNR6045-390MT | 39          | 20                   | 100             | 0.210 $\pm$ 30%  | 1.50    | 1.25    |
| SCNR6045-470MT | 47          | 20                   | 100             | 0.220 $\pm$ 30%  | 1.40    | 1.20    |

**Electrical Characteristics**电气性能

## SCNR6045 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm\%$ ) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|----------------------|-----------------|------------------|---------|---------|
| SCNR6045-560MT | 56          | 20                   | 100             | 0.260 $\pm$ 30%  | 1.30    | 1.10    |
| SCNR6045-680MT | 68          | 20                   | 100             | 0.330 $\pm$ 30%  | 1.20    | 1.00    |
| SCNR6045-820MT | 82          | 20                   | 100             | 0.450 $\pm$ 30%  | 1.05    | 0.90    |
| SCNR6045-101MT | 100         | 20                   | 100             | 0.500 $\pm$ 30%  | 0.95    | 0.80    |
| SCNR6045-151MT | 150         | 20                   | 100             | 0.800 $\pm$ 30%  | 0.80    | 0.70    |
| SCNR6045-181MT | 180         | 20                   | 100             | 0.950 $\pm$ 30%  | 0.75    | 0.65    |
| SCNR6045-221MT | 220         | 20                   | 100             | 1.200 $\pm$ 30%  | 0.70    | 0.59    |
| SCNR6045-331MT | 330         | 20                   | 100             | 1.700 $\pm$ 30%  | 0.57    | 0.57    |

## SCNR8040 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm\%$ ) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|----------------------|-----------------|------------------|---------|---------|
| SCNR8040-R90NT | 0.90        | 30                   | 100             | 0.006 $\pm$ 30%  | 11.00   | 7.80    |
| SCNR8040-1R4NT | 1.4         | 30                   | 100             | 0.007 $\pm$ 30%  | 9.00    | 7.00    |
| SCNR8040-2R0NT | 2.0         | 30                   | 100             | 0.009 $\pm$ 30%  | 7.40    | 6.30    |
| SCNR8040-2R2NT | 2.2         | 30                   | 100             | 0.009 $\pm$ 30%  | 7.40    | 6.30    |
| SCNR8040-2R8NT | 2.8         | 30                   | 100             | 0.014 $\pm$ 30%  | 5.80    | 5.10    |
| SCNR8040-3R6MT | 3.6         | 20                   | 100             | 0.015 $\pm$ 30%  | 5.30    | 4.90    |
| SCNR8040-4R7MT | 4.7         | 20                   | 100             | 0.018 $\pm$ 30%  | 4.70    | 4.10    |
| SCNR8040-6R8MT | 6.8         | 20                   | 100             | 0.025 $\pm$ 30%  | 4.00    | 3.70    |
| SCNR8040-100MT | 10          | 20                   | 100             | 0.034 $\pm$ 30%  | 3.40    | 3.10    |
| SCNR8040-150MT | 15          | 20                   | 100             | 0.050 $\pm$ 30%  | 2.70    | 2.40    |
| SCNR8040-220MT | 22          | 20                   | 100             | 0.066 $\pm$ 30%  | 2.20    | 2.20    |
| SCNR8040-330MT | 33          | 20                   | 100             | 0.100 $\pm$ 30%  | 1.90    | 1.70    |
| SCNR8040-470MT | 47          | 20                   | 100             | 0.150 $\pm$ 30%  | 1.50    | 1.40    |
| SCNR8040-680MT | 68          | 20                   | 100             | 0.230 $\pm$ 30%  | 1.20    | 1.10    |
| SCNR8040-101MT | 100         | 20                   | 100             | 0.290 $\pm$ 30%  | 1.00    | 1.00    |
| SCNR8040-151MT | 150         | 20                   | 100             | 0.480 $\pm$ 30%  | 0.95    | 0.85    |
| SCNR8040-221MT | 220         | 20                   | 100             | 0.660 $\pm$ 30%  | 0.85    | 0.80    |
| SCNR8040-331MT | 330         | 20                   | 100             | 1.020 $\pm$ 30%  | 0.68    | 0.64    |

Isat: The DC current is that which cause a 30% inductance reduction from the initial value.

Irms: The DC current is inductor surface temperature to rise by 40 $^{\circ}$ C ( Reference ambient temperature 20 $^{\circ}$ C ).



SMD Power Inductor SCCD Series贴片功率电感SCCD 系列

Features特点

- High heat resistance and excellent solderability.  
良好的可焊性
- Excellent terminal strength construction.  
良好的焊盘结构
- Flat bottom surface ensures secure, reliable mounting.  
平坦焊面便于安装
- Surface mount inductor with high current rating.  
大电流表面贴装电感



Applications应用

- Ideally used in Digital camera, notebook PC, LCD TV set, DC-DC Converters, etc.  
用于数码相机、笔记本电脑、LCD电视、DC-DC转换等。

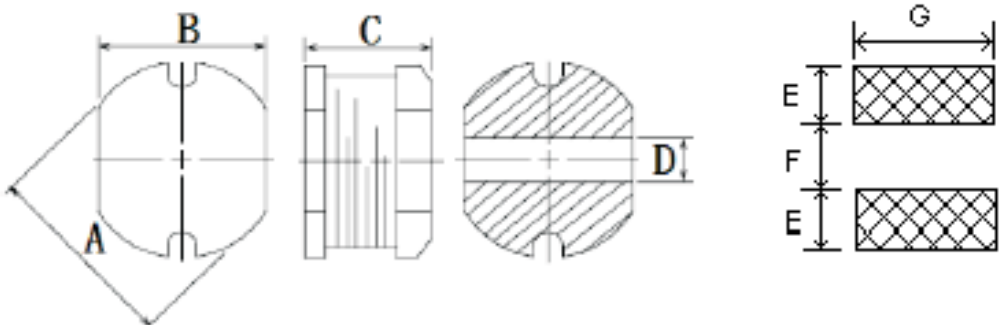
Product Identification 产品标识

SCCD 54 -3R3 M T

① ② ③ ④ ⑤

- ① Series name 系列名称
- ② Product dimensions 产品尺寸: 【5.8\*5.2\*4.5 mm】
- ③ Inductance Value 电感量: 【3R3=3.3 $\mu$ H 100=10 $\mu$ H 101=100 $\mu$ H】
- ④ Inductance Tolerance 电感量公差: 【M=±20%; N=±30%】
- ⑤ Packing Style: 【T: Taping 编带盘装 B: Bulk 散装】

Shapes And Dimensions外形及尺寸示意图



| Part | SCCD31  | SCCD32  | SCCD42   | SCCD43  | SCCD52   | SCCD53  | SCCD54  | SCCD73  | SCCD75  | SCCD104  | SCCD105  |
|------|---------|---------|----------|---------|----------|---------|---------|---------|---------|----------|----------|
| A    | 3.5±0.3 | 3.5±0.3 | 4.5±0.3  | 4.5±0.3 | 5.8±0.3  | 5.8±0.3 | 5.8±0.3 | 7.8±0.3 | 7.8±0.3 | 10.0±0.3 | 10.0±0.3 |
| B    | 3.0±0.3 | 3.0±0.3 | 4.0±0.3  | 4.0±0.3 | 5.2±0.3  | 5.2±0.3 | 5.2±0.3 | 7.0±0.3 | 7.0±0.3 | 9.0±0.3  | 9.0±0.3  |
| C    | 1.6±0.3 | 2.1±0.3 | 2.15±0.3 | 3.2±0.3 | 2.1±0.35 | 3.0±0.3 | 4.5±0.3 | 3.5±0.4 | 5.0±0.4 | 4.0±0.4  | 5.4±0.3  |
| D    | 1.0±0.1 | 1.0±0.1 | 1.5±0.1  | 1.5±0.1 | 1.5±0.1  | 1.7±0.1 | 1.7±0.1 | 2.2±0.1 | 2.2±0.1 | 2.8±0.1  | 2.8±0.1  |
| E    | 1.3±0.3 | 1.3±0.3 | 2.1±0.3  | 2.1±0.3 | 2.5±0.3  | 2.5±0.3 | 2.5±0.3 | 3.3±0.3 | 3.3±0.3 | 4.4±0.3  | 4.4±0.3  |
| F    | 0.9±0.1 | 0.9±0.1 | 1.0±0.1  | 1.0±0.1 | 1.0±0.1  | 1.2±0.1 | 1.2±0.1 | 1.4±0.2 | 1.4±0.2 | 1.8±0.2  | 1.8±0.2  |
| G    | 3.0±0.3 | 3.0±0.3 | 4.0±0.3  | 4.0±0.3 | 3.0±0.3  | 5.8±0.3 | 5.8±0.3 | 8.0±0.3 | 8.0±0.3 | 10.0±0.3 | 10.0±0.3 |



Electrical Characteristics 电气性能

SCCD31 Series

| Part Number  | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|--------------|--------|----------------|------------------|--------------|---------|
| SCCD31-2R2MT | 2.2    | 20             | 100              | 0.085        | 1.30    |
| SCCD31-3R3MT | 3.3    | 20             | 100              | 0.115        | 1.20    |
| SCCD31-4R7MT | 4.7    | 20             | 100              | 0.170        | 1.00    |
| SCCD31-100MT | 10     | 20             | 100              | 0.350        | 0.78    |
| SCCD31-150MT | 15     | 20             | 100              | 0.550        | 0.60    |
| SCCD31-220MT | 22     | 20             | 100              | 0.890        | 0.46    |
| SCCD31-270MT | 27     | 20             | 100              | 1.050        | 0.43    |
| SCCD31-330MT | 33     | 20             | 100              | 1.250        | 0.40    |

SCCD32 Series

| Part Number  | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|--------------|--------|----------------|------------------|--------------|---------|
| SCCD32-1R0MT | 1.0    | 20             | 100              | 0.05         | 1.85    |
| SCCD32-1R5MT | 1.5    | 20             | 100              | 0.06         | 1.85    |
| SCCD32-1R8MT | 1.8    | 20             | 100              | 0.07         | 1.70    |
| SCCD32-2R2MT | 2.2    | 20             | 100              | 0.08         | 1.60    |
| SCCD32-2R7MT | 2.7    | 20             | 100              | 0.09         | 1.55    |
| SCCD32-3R3MT | 3.3    | 20             | 100              | 0.10         | 1.40    |
| SCCD32-3R9MT | 3.9    | 20             | 100              | 0.115        | 1.30    |
| SCCD32-4R7MT | 4.7    | 20             | 100              | 0.165        | 1.25    |
| SCCD32-5R6MT | 5.6    | 20             | 100              | 0.185        | 1.20    |
| SCCD32-6R8MT | 6.8    | 20             | 100              | 0.21         | 1.10    |
| SCCD32-8R2MT | 8.2    | 20             | 100              | 0.24         | 1.05    |
| SCCD32-820MT | 10     | 20             | 100              | 0.35         | 0.760   |
| SCCD32-100MT | 12     | 20             | 100              | 0.46         | 0.685   |
| SCCD32-120MT | 15     | 20             | 100              | 0.50         | 0.635   |
| SCCD32-150MT | 18     | 20             | 100              | 0.60         | 0.525   |
| SCCD32-180MT | 22     | 20             | 100              | 0.65         | 0.500   |
| SCCD32-220MT | 27     | 20             | 100              | 0.75         | 0.405   |
| SCCD32-270MT | 33     | 20             | 100              | 0.85         | 0.380   |
| SCCD32-330MT | 39     | 20             | 100              | 1.00         | 0.355   |
| SCCD32-390MT | 47     | 20             | 100              | 1.60         | 0.330   |
| SCCD32-470MT | 56     | 20             | 100              | 1.65         | 0.290   |
| SCCD32-560MT | 68     | 20             | 100              | 1.85         | 0.275   |
| SCCD32-680MT | 82     | 20             | 100              | 2.10         | 0.250   |
| SCCD32-101KT | 100    | 10             | 1                | 2.20         | 0.220   |



Electrical Characteristics 电气性能

SCCD42 Series

| Part Number  | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|--------------|--------|----------------|------------------|--------------|---------|
| SCCD42-1R0MT | 1.0    | 20             | 100              | 0.050        | 3.00    |
| SCCD42-1R5MT | 1.5    | 20             | 100              | 0.055        | 2.80    |
| SCCD42-2R2MT | 2.2    | 20             | 100              | 0.070        | 2.50    |
| SCCD42-3R3MT | 3.3    | 20             | 100              | 0.085        | 2.25    |
| SCCD42-4R7MT | 4.7    | 20             | 100              | 0.120        | 1.80    |
| SCCD42-6R8MT | 6.8    | 20             | 100              | 0.170        | 1.40    |
| SCCD42-8R2MT | 8.2    | 20             | 100              | 0.200        | 1.20    |
| SCCD42-100MT | 10     | 20             | 100              | 0.210        | 1.00    |
| SCCD42-150MT | 15     | 20             | 100              | 0.470        | 0.82    |
| SCCD42-220MT | 22     | 20             | 100              | 0.500        | 0.60    |

SCCD43 Series

| Part Number  | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|--------------|--------|----------------|------------------|--------------|---------|
| SCCD43-1R0MT | 1.0    | 20             | 100              | 0.045        | 3.50    |
| SCCD43-2R2MT | 2.2    | 20             | 100              | 0.070        | 2.40    |
| SCCD43-3R3MT | 3.3    | 20             | 100              | 0.085        | 2.25    |
| SCCD43-3R9MT | 3.9    | 20             | 100              | 0.090        | 1.70    |
| SCCD43-4R7MT | 4.7    | 20             | 100              | 0.105        | 1.65    |
| SCCD43-5R6MT | 5.6    | 20             | 100              | 0.120        | 1.60    |
| SCCD43-6R8MT | 6.8    | 20             | 100              | 0.130        | 1.40    |
| SCCD43-8R2MT | 8.2    | 20             | 100              | 0.145        | 1.30    |
| SCCD43-100MT | 10     | 20             | 100              | 0.180        | 1.10    |
| SCCD43-120MT | 12     | 20             | 100              | 0.210        | 1.00    |
| SCCD43-150MT | 15     | 20             | 100              | 0.235        | 0.85    |
| SCCD43-180MT | 18     | 20             | 100              | 0.330        | 0.80    |
| SCCD43-220MT | 22     | 20             | 100              | 0.360        | 0.70    |
| SCCD43-270MT | 27     | 20             | 100              | 0.520        | 0.65    |
| SCCD43-330MT | 33     | 20             | 100              | 0.540        | 0.60    |
| SCCD43-390MT | 39     | 20             | 100              | 0.580        | 0.55    |
| SCCD43-470MT | 47     | 20             | 100              | 0.840        | 0.48    |
| SCCD43-560MT | 56     | 20             | 100              | 0.930        | 0.46    |
| SCCD43-680MT | 68     | 20             | 100              | 1.110        | 0.44    |
| SCCD43-820MT | 82     | 20             | 100              | 1.250        | 0.42    |
| SCCD43-101KT | 100    | 10             | 1                | 1.400        | 0.40    |
| SCCD43-151KT | 150    | 10             | 1                | 2.000        | 0.35    |
| SCCD43-221KT | 220    | 10             | 1                | 2.460        | 0.27    |
| SCCD43-331KT | 330    | 10             | 1                | 4.500        | 0.20    |
| SCCD43-471KT | 470    | 10             | 1                | 5.500        | 0.16    |
| SCCD43-561KT | 560    | 10             | 1                | 6.000        | 0.14    |
| SCCD43-681KT | 680    | 10             | 1                | 6.800        | 0.13    |
| SCCD43-821KT | 820    | 10             | 1                | 8.000        | 0.12    |



Electrical Characteristics 电气性能

SCCD52 Series

| Part Number  | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|--------------|--------|----------------|------------------|--------------|---------|
| SCCD52-1R1MT | 1.1    | 20             | 100              | 0.030        | 2.50    |
| SCCD52-1R5MT | 1.5    | 20             | 100              | 0.040        | 2.10    |
| SCCD52-2R2MT | 2.2    | 20             | 100              | 0.070        | 2.00    |
| SCCD52-3R3MT | 3.3    | 20             | 100              | 0.080        | 1.60    |
| SCCD52-4R7MT | 4.7    | 20             | 100              | 0.093        | 1.30    |
| SCCD52-5R6MT | 5.6    | 20             | 100              | 0.115        | 1.10    |
| SCCD52-100MT | 10     | 20             | 100              | 0.170        | 0.90    |
| SCCD52-150MT | 15     | 20             | 100              | 0.330        | 0.72    |
| SCCD52-220MT | 22     | 20             | 100              | 0.400        | 0.60    |
| SCCD52-330MT | 33     | 20             | 100              | 0.540        | 0.50    |
| SCCD52-470MT | 47     | 20             | 100              | 0.690        | 0.40    |
| SCCD52-680MT | 68     | 20             | 100              | 1.180        | 0.37    |
| SCCD52-101KT | 100    | 10             | 1                | 1.800        | 0.27    |
| SCCD52-151KT | 150    | 10             | 1                | 2.750        | 0.23    |
| SCCD52-221KT | 220    | 10             | 1                | 3.200        | 0.20    |

SCCD53 Series

| Part Number  | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|--------------|--------|----------------|------------------|--------------|---------|
| SCCD53-1R0MT | 1.0    | 20             | 100              | 0.028        | 4.50    |
| SCCD53-1R5MT | 1.5    | 20             | 100              | 0.034        | 4.20    |
| SCCD53-2R2MT | 2.2    | 20             | 100              | 0.050        | 4.00    |
| SCCD53-3R3MT | 3.3    | 20             | 100              | 0.060        | 3.00    |
| SCCD53-4R7MT | 4.7    | 20             | 100              | 0.070        | 2.80    |
| SCCD53-6R8MT | 6.8    | 20             | 100              | 0.100        | 2.50    |
| SCCD53-8R2MT | 8.2    | 20             | 100              | 0.120        | 2.30    |
| SCCD53-100MT | 10     | 20             | 100              | 0.130        | 2.00    |
| SCCD53-150MT | 15     | 20             | 100              | 0.200        | 1.50    |
| SCCD53-220MT | 22     | 20             | 100              | 0.280        | 1.20    |
| SCCD53-270MT | 27     | 20             | 100              | 0.300        | 1.10    |
| SCCD53-330MT | 33     | 20             | 100              | 0.410        | 1.00    |
| SCCD53-470MT | 47     | 20             | 100              | 0.550        | 0.80    |
| SCCD53-680MT | 68     | 20             | 100              | 0.630        | 0.70    |
| SCCD53-101KT | 100    | 10             | 1                | 0.750        | 0.70    |
| SCCD53-151KT | 150    | 10             | 1                | 1.600        | 0.60    |
| SCCD53-181KT | 180    | 10             | 1                | 1.650        | 0.50    |
| SCCD53-221KT | 220    | 10             | 1                | 1.860        | 0.40    |
| SCCD53-331KT | 330    | 10             | 1                | 3.100        | 0.25    |



Electrical Characteristics 电气性能

SCCD54 Series

| Part Number  | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|--------------|--------|----------------|------------------|--------------|---------|
| SCCD54-R47MT | 0.47   | 20             | 100              | 0.012        | 4.80    |
| SCCD54-1R0MT | 1.0    | 20             | 100              | 0.025        | 3.50    |
| SCCD54-2R2MT | 2.2    | 20             | 100              | 0.028        | 3.20    |
| SCCD54-3R3MT | 3.3    | 20             | 100              | 0.035        | 2.50    |
| SCCD54-4R7MT | 4.7    | 20             | 100              | 0.038        | 2.50    |
| SCCD54-6R8MT | 6.8    | 20             | 100              | 0.070        | 2.00    |
| SCCD54-8R2MT | 8.2    | 20             | 100              | 0.090        | 1.70    |
| SCCD54-100MT | 10     | 20             | 100              | 0.10         | 1.65    |
| SCCD54-120MT | 12     | 20             | 100              | 0.12         | 1.55    |
| SCCD54-150MT | 15     | 20             | 100              | 0.14         | 1.40    |
| SCCD54-180MT | 18     | 20             | 100              | 0.15         | 1.25    |
| SCCD54-220MT | 22     | 20             | 100              | 0.18         | 1.10    |
| SCCD54-270MT | 27     | 20             | 100              | 0.20         | 0.95    |
| SCCD54-330MT | 33     | 20             | 100              | 0.22         | 0.90    |
| SCCD54-390MT | 39     | 20             | 100              | 0.30         | 0.80    |
| SCCD54-470MT | 47     | 20             | 100              | 0.35         | 0.75    |
| SCCD54-560MT | 56     | 20             | 100              | 0.40         | 0.70    |
| SCCD54-680MT | 68     | 20             | 100              | 0.45         | 0.65    |
| SCCD54-820MT | 82     | 20             | 100              | 0.60         | 0.60    |
| SCCD54-101KT | 100    | 10             | 1                | 0.70         | 0.55    |
| SCCD54-121KT | 120    | 10             | 1                | 0.85         | 0.45    |
| SCCD54-151KT | 150    | 10             | 1                | 1.10         | 0.43    |
| SCCD54-181KT | 180    | 10             | 1                | 1.35         | 0.40    |
| SCCD54-221KT | 220    | 10             | 1                | 1.55         | 0.35    |
| SCCD54-331KT | 330    | 10             | 1                | 1.98         | 0.30    |
| SCCD54-471KT | 470    | 10             | 1                | 2.50         | 0.25    |
| SCCD54-561KT | 560    | 10             | 1                | 2.87         | 0.20    |
| SCCD54-681KT | 680    | 10             | 1                | 3.50         | 0.18    |
| SCCD54-821KT | 820    | 10             | 1                | 5.20         | 0.17    |
| SCCD54-102KT | 1000   | 10             | 1                | 5.50         | 0.15    |

SCCD73 Series

| Part Number  | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|--------------|--------|----------------|------------------|--------------|---------|
| SCCD73-1R0MT | 1.0    | 20             | 100              | 0.012        | 6.00    |
| SCCD73-2R2MT | 2.2    | 20             | 100              | 0.022        | 3.20    |
| SCCD73-2R5MT | 2.5    | 20             | 100              | 0.025        | 2.80    |
| SCCD73-3R3MT | 3.3    | 20             | 100              | 0.035        | 3.60    |
| SCCD73-4R7MT | 4.7    | 20             | 100              | 0.048        | 4.00    |
| SCCD73-6R8MT | 6.8    | 20             | 100              | 0.050        | 2.20    |
| SCCD73-100MT | 10     | 20             | 100              | 0.080        | 2.10    |
| SCCD73-120MT | 12     | 20             | 100              | 0.090        | 1.80    |
| SCCD73-150MT | 15     | 20             | 100              | 0.095        | 1.70    |



Electrical Characteristics 电气性能

SCCD73 Series

| Part Number  | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|--------------|--------|----------------|------------------|--------------|---------|
| SCCD73-180MT | 18     | 20             | 100              | 0.110        | 1.40    |
| SCCD73-220MT | 22     | 20             | 100              | 0.156        | 1.35    |
| SCCD73-270MT | 27     | 20             | 100              | 0.145        | 1.25    |
| SCCD73-330MT | 33     | 20             | 100              | 0.170        | 1.05    |
| SCCD73-390MT | 39     | 20             | 100              | 0.215        | 0.95    |
| SCCD73-470MT | 47     | 20             | 100              | 0.305        | 0.90    |
| SCCD73-560MT | 56     | 20             | 100              | 0.280        | 0.80    |
| SCCD73-680MT | 68     | 20             | 100              | 0.330        | 0.75    |
| SCCD73-820MT | 82     | 20             | 100              | 0.405        | 0.70    |
| SCCD73-101KT | 100    | 10             | 1                | 0.480        | 0.65    |
| SCCD73-121KT | 120    | 10             | 1                | 0.535        | 0.60    |
| SCCD73-151KT | 150    | 10             | 1                | 0.750        | 0.55    |
| SCCD73-181KT | 180    | 10             | 1                | 1.020        | 0.50    |
| SCCD73-221KT | 220    | 10             | 1                | 1.200        | 0.45    |
| SCCD73-271KT | 270    | 10             | 1                | 1.300        | 0.37    |
| SCCD73-331KT | 330    | 10             | 1                | 1.490        | 0.35    |
| SCCD73-471KT | 470    | 10             | 1                | 2.200        | 0.30    |
| SCCD73-561KT | 560    | 10             | 1                | 2.400        | 0.25    |

SCCD75 Series

| Part Number  | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|--------------|--------|----------------|------------------|--------------|---------|
| SCCD75-1R0MT | 1.0    | 20             | 100              | 0.015        | 5.80    |
| SCCD75-2R2MT | 2.2    | 20             | 100              | 0.023        | 5.20    |
| SCCD75-3R3MT | 3.3    | 20             | 100              | 0.025        | 4.80    |
| SCCD75-4R7MT | 4.7    | 20             | 100              | 0.040        | 4.00    |
| SCCD75-6R8MT | 6.8    | 20             | 100              | 0.041        | 3.00    |
| SCCD75-8R2MT | 8.2    | 20             | 100              | 0.042        | 2.70    |
| SCCD75-100MT | 10     | 20             | 100              | 0.07         | 2.55    |
| SCCD75-120MT | 12     | 20             | 100              | 0.08         | 2.40    |
| SCCD75-150MT | 15     | 20             | 100              | 0.09         | 2.00    |
| SCCD75-180MT | 18     | 20             | 100              | 0.10         | 1.95    |
| SCCD75-220MT | 22     | 20             | 100              | 0.11         | 1.70    |
| SCCD75-270MT | 27     | 20             | 100              | 0.12         | 1.55    |
| SCCD75-330MT | 33     | 20             | 100              | 0.13         | 1.40    |
| SCCD75-390MT | 39     | 20             | 100              | 0.15         | 1.35    |
| SCCD75-470MT | 47     | 20             | 100              | 0.19         | 1.25    |
| SCCD75-560MT | 56     | 20             | 100              | 0.23         | 1.10    |
| SCCD75-680MT | 68     | 20             | 100              | 0.25         | 1.00    |
| SCCD75-820MT | 82     | 20             | 100              | 0.35         | 0.95    |
| SCCD75-101KT | 100    | 10             | 1                | 0.40         | 0.78    |



Electrical Characteristics 电气性能

SCCD75 Series

| Part Number  | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|--------------|--------|----------------|------------------|--------------|---------|
| SCCD75-121KT | 120    | 10             | 1                | 0.45         | 0.73    |
| SCCD75-151KT | 150    | 10             | 1                | 0.60         | 0.70    |
| SCCD75-181KT | 180    | 10             | 1                | 0.70         | 0.60    |
| SCCD75-221KT | 220    | 10             | 1                | 0.95         | 0.55    |
| SCCD75-271KT | 270    | 10             | 1                | 1.10         | 0.50    |
| SCCD75-331KT | 330    | 10             | 1                | 1.25         | 0.45    |
| SCCD75-391KT | 390    | 10             | 1                | 1.75         | 0.40    |
| SCCD75-471KT | 470    | 10             | 1                | 1.95         | 0.35    |
| SCCD75-681KT | 680    | 10             | 1                | 2.18         | 0.27    |
| SCCD75-102KT | 1000   | 10             | 1                | 3.85         | 0.20    |

SCCD104 Series

| Part Number   | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|---------------|--------|----------------|------------------|--------------|---------|
| SCCD104-100MT | 10     | 20             | 100              | 0.05         | 2.90    |
| SCCD104-120MT | 12     | 20             | 100              | 0.06         | 2.80    |
| SCCD104-150MT | 15     | 20             | 100              | 0.07         | 2.30    |
| SCCD104-180MT | 18     | 20             | 100              | 0.08         | 2.15    |
| SCCD104-220MT | 22     | 20             | 100              | 0.09         | 2.10    |
| SCCD104-270MT | 27     | 20             | 100              | 0.10         | 1.90    |
| SCCD104-330MT | 33     | 20             | 100              | 0.12         | 1.85    |
| SCCD104-390MT | 39     | 20             | 100              | 0.15         | 1.45    |
| SCCD104-470MT | 47     | 20             | 100              | 0.17         | 1.35    |
| SCCD104-560MT | 56     | 20             | 100              | 0.20         | 1.30    |
| SCCD104-680MT | 68     | 20             | 100              | 0.25         | 1.20    |
| SCCD104-820MT | 82     | 20             | 100              | 0.27         | 1.00    |
| SCCD104-101KT | 100    | 10             | 1                | 0.30         | 0.95    |
| SCCD104-121KT | 120    | 10             | 1                | 0.40         | 0.90    |
| SCCD104-151KT | 150    | 10             | 1                | 0.50         | 0.80    |
| SCCD104-181KT | 180    | 10             | 1                | 0.62         | 0.70    |
| SCCD104-221KT | 220    | 10             | 1                | 0.72         | 0.65    |
| SCCD104-271KT | 270    | 10             | 1                | 0.95         | 0.57    |
| SCCD104-331KT | 330    | 10             | 1                | 1.10         | 0.55    |
| SCCD104-391KT | 390    | 10             | 1                | 1.20         | 0.50    |
| SCCD104-471KT | 470    | 10             | 1                | 1.52         | 0.45    |
| SCCD104-561KT | 560    | 10             | 1                | 1.90         | 0.40    |



Electrical Characteristics 电气性能

SCCD105 Series

| Part Number   | L (μH) | Tolerance (±%) | Test Freq. (KHz) | RDC Max. (Ω) | Isat(A) |
|---------------|--------|----------------|------------------|--------------|---------|
| SCCD105-100MT | 10     | 20             | 100              | 0.06         | 3.80    |
| SCCD105-120MT | 12     | 20             | 100              | 0.07         | 3.40    |
| SCCD105-150MT | 15     | 20             | 100              | 0.08         | 2.90    |
| SCCD105-180MT | 18     | 20             | 100              | 0.09         | 2.65    |
| SCCD105-220MT | 22     | 20             | 100              | 0.10         | 2.50    |
| SCCD105-270MT | 27     | 20             | 100              | 0.11         | 2.25    |
| SCCD105-330MT | 33     | 20             | 100              | 0.12         | 2.00    |
| SCCD105-390MT | 39     | 20             | 100              | 0.13         | 1.90    |
| SCCD105-470MT | 47     | 20             | 100              | 0.15         | 1.70    |
| SCCD105-560MT | 56     | 20             | 100              | 0.19         | 1.60    |
| SCCD105-680MT | 68     | 20             | 100              | 0.22         | 1.45    |
| SCCD105-820MT | 82     | 20             | 100              | 0.25         | 1.30    |
| SCCD105-101KT | 100    | 10             | 1                | 0.33         | 1.15    |
| SCCD105-121KT | 120    | 10             | 1                | 0.40         | 1.00    |
| SCCD105-151KT | 150    | 10             | 1                | 0.45         | 0.95    |
| SCCD105-181KT | 180    | 10             | 1                | 0.60         | 0.85    |
| SCCD105-221KT | 220    | 10             | 1                | 0.70         | 0.75    |
| SCCD105-271KT | 270    | 10             | 1                | 0.95         | 0.70    |
| SCCD105-331KT | 330    | 10             | 1                | 1.10         | 0.60    |
| SCCD105-391KT | 390    | 10             | 1                | 1.20         | 0.55    |
| SCCD105-471KT | 470    | 10             | 1                | 1.45         | 0.50    |
| SCCD105-561KT | 560    | 10             | 1                | 1.90         | 0.48    |
| SCCD105-681KT | 680    | 10             | 1                | 2.25         | 0.45    |
| SCCD105-821KT | 820    | 10             | 1                | 2.50         | 0.40    |

1. Isat: Saturation Current, the current when the inductance becomes 10% lower than its initial value.