

Features

- Excellent solderability and resistance to soldering heat.
- Winding type realizes small size and low profile
- Good dimensions, high reliability, and easy surface mount assembly
- Operating temperature: -40°C to +85°C



Application

- USB2.0 of PC, peripheral equipments, small digital AV equipments, etc.
- LVDS lines of Note PC, LCD
- Audio lines

Product Identification

KCMC 0603 - 900 S

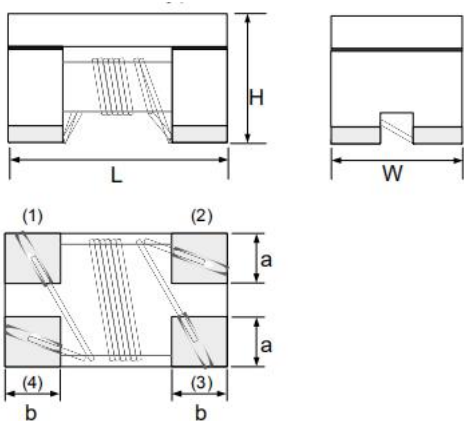
① ② ③ ④ ②

Chip Size:

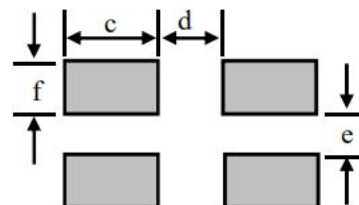
- ① Series name: Chip Common Mode Choke Coil
- ③ Typical Impedance at 100MHz: 900=90Ω
- ④ Tolerance: ±25%

Code	L(mm)	W(mm)	H(mm)
0603	1.60 ± 0.10	0.85 ± 0.10	1.10 ± 0.10
0805	2.00 ± 0.20	1.20 ± 0.20	1.00 ± 0.20
1206	3.20 ± 0.20	1.60 ± 0.20	1.90 ± 0.20

SHAPE AND DIMENSIONS



Recommended Land Pattern Unit: mm



Series	L(mm)	W(mm)	H(mm)	a(mm)	b(mm)	c(mm)	d(mm)	e(mm)	f(mm)
0603	1.60 ± 0.10	0.85 ± 0.10	1.10 ± 0.10	0.25	0.33	0.85	0.60	0.25	0.25
0805	2.00 ± 0.20	1.20 ± 0.20	1.20 ± 0.20	0.40	0.45	0.90	0.80	0.40	0.40
1206	3.20 ± 0.20	1.60 ± 0.20	1.90 ± 0.20	0.60	0.60	1.00	1.60	0.40	0.60

SPECIFICATIONS

KCMC0603 Series

Part Number	Z Ω 100MHz(Ω)	I _r (mA)	R _{dc} (Ω)	U _r (DC) V
KCMC0603-220S	22	500	0.080	50
KCMC0603-450S	45	500	0.110	
KCMC0603-900S	90	500	0.145	
KCMC0603-121S	120	500	0.175	
KCMC0603-181S	180	500	0.210	
KCMC0603-251S	250	400	0.280	

KCMC0805 Series

Part Number	Z Ω 100MHz(Ω)	I _r (mA)	R _{dc} (Ω)	U _r (DC) V
KCMC0805-670S	67	400	0.25	50
KCMC0805-900S	90	330	0.35	
KCMC0805-121S	120	370	0.30	
KCMC0805-181S	180	330	0.35	
KCMC0805-261S	260	300	0.40	
KCMC0805-361S	360	280	0.45	

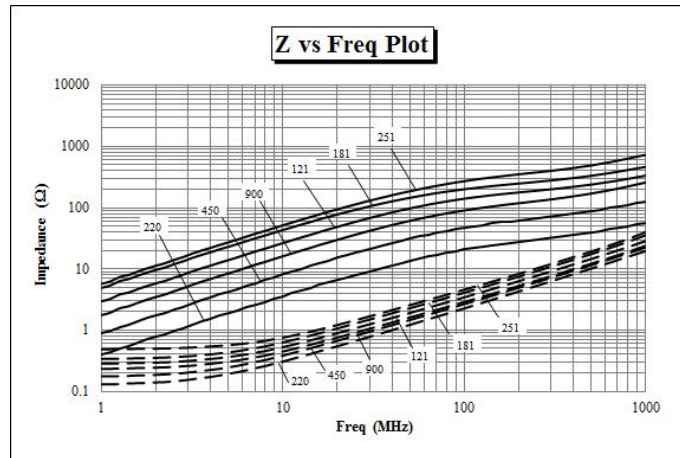
KCMC1206 Series

Part Number	Z Ω 100MHz(Ω)	I _r (mA)	R _{dc} (Ω)	U _r (DC) V
KCMC1206-900S	90	370	0.3	50
KCMC1206-161S	160	340	0.4	
KCMC1206-261S	260	310	0.5	
KCMC1206-601S	600	260	0.8	
KCMC1206-102S	1000	230	1.0	
KCMC1206-222S	2200	200	1.2	

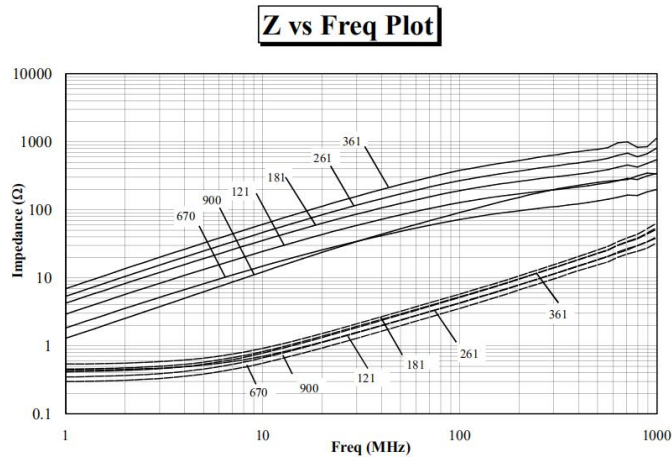
- Impedance is measured in HP4287A at frequency of 100MHz.
- I_r: for 15°C rise.

TYPICAL ELECTRICAL CHARACTERISTICS

KCMC0603 Series



KCMC0805 Series



KCMC1206 Series

