HDS

Ultra low impedance

极低阻抗

- Low impedance, 105℃ 2000hours High CV.
- Applicable to SMT process
- Rohs Compliance.
- 105℃低阻抗、2000hours高比容产品。
- 适用于SMT制程。

■ Specifications 特性表

Items 项目	Characteristics 特性						
Capacitance Tolerance 静电容量误差	±20% （120Hz , 20℃）						
Operating Temperature Range 适用温度范围	－55℃ ~ ＋105℃						
Rated Voltage Range 额定电压范围	6.3~50VDC						
Capacitance Range 静电容量范围	10~2200μF						
Leakage Current 漏电流	I≦ 0.01CV or 3 (μA)，which is greater. (After 2 minutes application of DC rated voltage, at 20℃)						
Dissipation Factor 损失角正切值 (tan δ)	Measurement Frequency:120Hz. Temperature: 20℃						
	Rated Voltage(V)	6.3	10	16	25	35	50
	tanδ（Max)	0.26	0.19	0.16	0.14	0.12	0.10
Low Temperature Stability 低温特性 Impedance Ratio(Max) 阻抗比率 最大值)	Measurement Frequency:120Hz						
	Rated Voltage(V)	6.3	10	16	25	35	50
	Z(-25℃) / Z(20℃)	4	3	2	2	2	2
	Z(-55℃) / Z(20℃)	8	5	4	3	3	3
Load Life 负荷寿命	2000hours,with application of rated voltage at 105℃						
	Capacitance Change	within ±30% of Initial Value					
	tan δ	200% or less of Initial Specified Value					
	Leakage Current	Initial Specified Value or less					
Shelf Life 放置寿命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000hours 105℃ without voltage applied. Before the measurement. The Capacitance shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.						
	Capacitance Change	within ±30% of Initial Value					
	tan δ	200% or less of Initial Specified Value					
	Leakage Current	Initial Specified Value or less					
Resistance to Soldering Heat 焊锡耐热性	The capacitors shall be kept on the hott plate maintained at 250℃ for 30seconds. After removing from the hot plate and restored at room temperature they meet the characteristics requirements listed at right.			Capacitance Change	Within ± 10% of Initial Value		
				tan δ	Initial Specified Value		
				Leakage Current	Initial Specified Value or less		
Standards 参照标准	JIS C 5101-4-1 (IEC 60384)						

Frequency Coefficient of Permissible Ripple Current

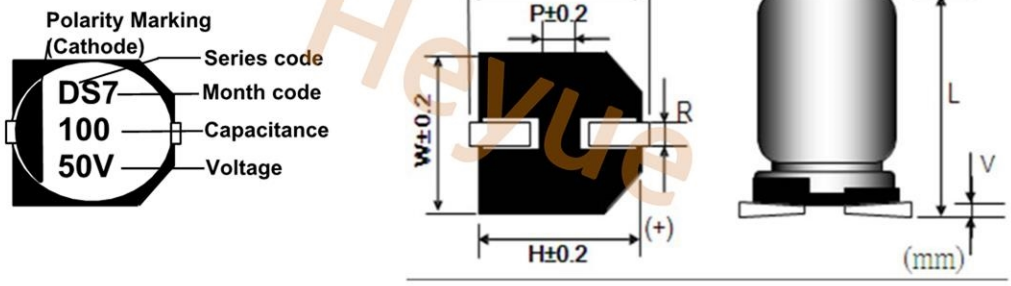
Frequency (Hz) / Capacitance (μF)	120 ≦ F < 1K	1K ≦ F < 10K	10K ≦ F < 100K	100K ≦ F
≦ 470	0.65	0.85	0.95	1.00
>470	0.70	0.90	0.95	1.00

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise.when long life performance is required in actual use. The rms ripple current has to be reduced.

注：以上所提供的设计及特性参数仅供参考，任何修改不作预先通知，如有使用上任何疑问，请在采购前与我们联系，以便提供技术上的协助.

■ DIMENSIONS(mm) 外形图

Fig.1 ΦD=6.3~10mm



(mm)

Size	ΦD	L	W	H	C	R	P	Vmax
4×6.0	4.0	6.0±0.3	4.3	4.3	5.1	0.5~0.8	1.0	0.3
5×6.0	5.0	6.0±0.3	5.3	5.3	5.9	0.5~0.8	1.5	0.3
6.3×6.0	6.3	6.0±0.3	6.6	6.6	7.2	0.5~0.8	2.1	0.3
6.3×7.7	6.3	7.7±0.3	6.6	6.6	7.2	0.5~0.8	2.1	0.3
8×10	8.0	10±0.5	8.4	8.4	9.0	0.7~1.1	3.2	0.3
10×10	10.0	10±0.5	10.4	10.4	11.0	0.7~1.3	4.5	0.3

■Standard ratings 标准品一览表

D×L(mm) ; R.C.(mA rms) at 105℃ 100KHz, IMP(Ω max) at 20℃ 100KHz.

Cap (μF) \ V	6.3			10			16			25			35			50		
Item	D x L	R.C.	IMP	D x L	R.C	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP
10																4x6.0	85	2.30
																5x6.0	165	0.88
22										4x6.0	160	0.85	4x6.0	160	0.85	5x6.0	165	0.88
33										4x6.0	160	0.85	5x6.0	240	0.40			
47							4x6.0	160	0.85	5x6.0	240	0.36	5x6.0	240	0.36	6.3x6.0	195	0.68
68				4x6.0	160	0.85	5x6.0	240	0.36	5x6.0	240	0.36	6.3x6.0	300	0.26			
100	4x6.0	160	0.85				5x6.0	240	0.36	6.3x6.0	300	0.26	6.3x6.0	300	0.26	6.3x7.7	350	0.34
150				5x6.0	240	0.36	6.3x6.0	300	0.26	6.3x7.7	600	0.16	6.3x7.7	600	0.16			
220	5x6.0	240	0.36	6.3x6.0	300	0.26	6.3x6.0	300	0.26	6.3x7.7	600	0.16				8x10	670	0.18
330	6.3x6.0	300	0.26	6.3x7.7	600	0.16	6.3x7.7	600	0.160				8x10	850	0.08	10x10	900	0.12
470	6.3x7.7	600	0.16	6.3x7.7	600	0.16				8x10	850	0.08						
560													10x10					
680	6.3x7.7	600	0.16				8x10	850	0.08									
820										10x10	1190	0.06						
1000				8x10	850	0.08	10x10	1190	0.06									
1500	8x10	850	0.08	10x10	1190	0.060												
2200	10x10	1190	0.06															

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