

HTS

Low impedance, Long life
低阻抗、长寿命品



- SMD type with 8Ø~16Ø, 125°C, 5,000 hours, long life product.
- Designed For automobile modules and other high temperature applications.
- RoHS Compliance.
- 8Φ~16Φ SMD型, 125°C, 5000小时寿命保证。
- 适用于汽车模组和其他高温应用产品。

■ Specifications 特性表

Items 项目	Characteristics 特性				
Capacitance Tolerance 静电容量误差	± 20%(120Hz,20°C)				
Operating Temperature Range 适用温度范围	-40 ~ +125°C				
Rated Voltage Range 额定电压范围	16~50VDC				
Capacitance Range 静电容量范围	33~2200µF				
Leakage Current 漏电流	I ≤ 0.01CV or 3(µA) , which is greater. (After 2 minutes application of DC rated voltage, at 20°C)				
Dissipation Factor 损失角正切值 (tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C				
	Rated Voltage(V)	16	25	35	50
	tan δ(Max)	0.20	0.20	0.14	0.14
Low Temperature Stability 低温特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.				
	Rated Voltage(V)	16	25	35	50
	Z(-25°C)/Z(20°C)	5	2	2	2
	Z(-40°C)/Z(20°C)	8	4	3	3
Load Life 负荷寿命	Φ8~Φ10:2000hours; Φ12.5:3000hours ; Φ16: 5000hours with application of rated voltage at 125°C				
	Capacitance Change	Within ±30% of Initial Value			
	tan δ	300% 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°C after exposing them for 1000 hours 125°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.				
	Capacitance Change	Within ±300% of Initial Value			
	tan δ	300% 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 hot plate maintained at 250°C for 30 seconds. 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	Black print on the case top				

Frequency Coefficient of Permissible Ripple Current

Frequency (Hz)	100 ≤ F < 1K	1K ≤ F < 10K	10K ≤ F < 100K	100K ≤ F
Capacitance (µF)				
全系列	0.60	0.85	0.93	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°C 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 ØD=8~10mm

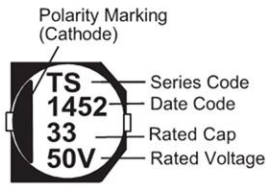
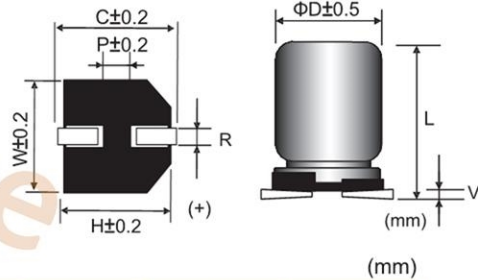
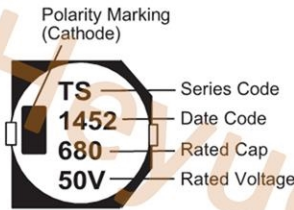


Fig.2 ØD ≥ 12.5mm



Size	ØD	L±0.5	W	H	C	R	P	Vmax
8×6.5	8.0	6.5	8.3	8.3	9.0	0.5~0.8	2.3	0.3
8×10	8.0	10.0	8.3	8.3	9.0	0.7~1.1	3.2	0.3
10×10	10.0	10.0	10.3	10.3	11.0	0.7~1.3	4.5	0.3
12.5×13.5	12.5	13.5	13.0	13.0	13.7	1.1~1.4	4.5	0.4
16×16.5	16.0	16.5	17.0	17.0	18.0	1.1~1.4	6.4	0.4

■ Standard ratings 标准品一览表

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

Cap (µF)	V	16.0			25			35			50		
		D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP
47											8x10	250	0.5
											8x6.5	100	0.16
100								8x10	300	0.18	10x10	350	0.30
160								8x10	300	0.18			
220					8x10	300	0.18	10x10	500	0.11	12.5x13.5	700	0.15
270					8x10	300	0.18						
300								10x10	500	0.11			
330		8x10	300	0.18	10x10	500	0.11	12.5x13.5	1200	0.08			
390		8x10	300	0.18									
470		10x10	500	0.11	10x10	500	0.11	12.5x13.5	1200	0.08	16x16.5	1000	0.09
620								12.5x13.5	1200	0.08			
680		10x10	500	0.11	12.5x13.5	1200	0.08	16x16.5	1800	0.05			
910					12.5x13.5	1200	0.08						
1000		12.5x13.5	1200	0.08	16x16.5	1800	0.05						
1500		12.5x13.5	1200	0.08	16x16.5	1800	0.05						
2200		16x16.5	1800	0.05									



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