

HG

Wide temperature Standard  
宽温标准品

- Wide range of -55~+125°C, long life product.
- Applicable to SMT process.
- RoHS Compliance.
- -55 ~ +125°C宽温度、长寿命产品。
- 适用汽车模块及更高温度产品。



■ 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	-55 ~ +125°C					-40 ~ +125°C				
Rated Voltage Range 额定电压范围	10 ~ 63VDC					80 ~ 160VDC				
Capacitance Range 静电容量范围	10 ~ 470µF					2.2 ~ 4.7µF				
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 损耗角正切值 ( tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C									
	Rated Voltage(V)	10	16	25	35	50	63	80	100	160
	tan δ(Max)	0.32	0.24	0.21	0.18	0.18	0.15	0.15	0.12	0.20
Low Temperature Stability 低温特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.									
	Rated Voltage(V)	10	16	25	35	50	63	80	100	160
	Z(-25°C)/Z(20°C)	3	2	2	2	2	2	2	2	-
	Z(-40°C)/Z(20°C)	-	-	-	-	-	-	3	3	-
	Z(-55°C)/Z(20°C)	6	4	4	3	3	3	-	-	-
Load Life 负荷寿命	3000hours,with application of rated voltage at 125°C (ØD=4~6.3x5.4mm : 1000hrs;6.3x7.7mm : 2000hrs)									
	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 1,000 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 ± 30% of Initial Value								
	tan δ	300% or less of Initial Specified Value								
	Leakage Current	500% or less of Initial Specified Value								
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.					Capacitance Change	Within ± 10% of Initial Value			
	After removing from the hot plate and restored at room temperature they meet the characteristics requirements listed at right.					tan δ	Initial Specified Value			
						Leakage Current	Initial Specified Value or less			
Marking 标识	Black print on the case top									

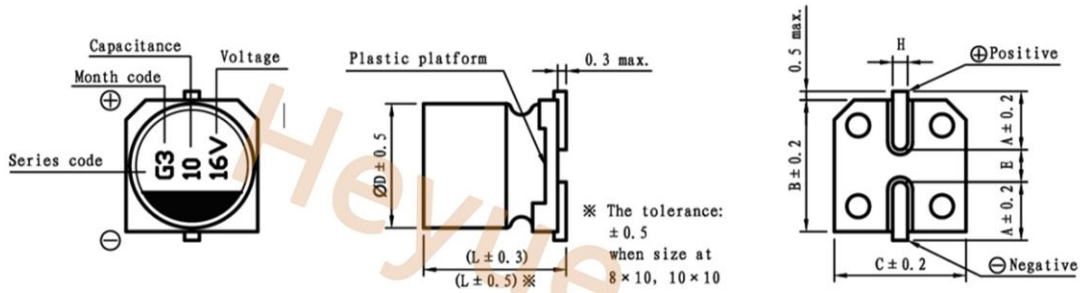
Frequency Coefficient of Permissible Ripple Current

Frequency (Hz)	50	60	120	1K	≥10K
Coefficient	0.64	0.64	1.00	1.36	1.50

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



(mm)

$\phi$ D x L	6.3x5.4	6.3x7.7	8x10	10x10
A	2.4	2.4	2.9	3.2
B	6.6	6.6	8.3	10.3
C	6.6	6.6	8.3	10.3
E	2.2	2.2	3.1	4.5
L	5.4	7.7	10	10
H	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1

■ Standard ratings 标准品一览表

D x L (mm) ; R.C. (mA rms) at 125°C 120Hz.

Cap (μF)	V	10		16		25		35		50	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
10								6.3x5.4	46	6.3x7.7	34
22								6.3x5.4	46	6.3x7.7	55
33						6.3x5.4	46	6.3x7.7	73	8x10	106
47				6.3x5.4	40	6.3x7.7	73	6.3x7.7	73	8x10	106
										10x10	164
100		6.3x7.7	58	6.3x7.7	73	6.3x7.7	73	8x10	131	10x10	164
						8x10	131	10x10	164		
220		6.3x7.7	58	8x10	131	8x10	131	10x10	164		
				10x10	164	10x10	164				
330		8x10	90	10x10	164	10x10	164				
		10x10	112								
470		10x10	130								

Cap (μF)	V	63		80		100		160	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
2.2								8x10	22
3.3								8x10	22
4.7								10x10	70
10		6.3x7.7	40	8x10	46	8x10	46		
22		8x10	66	8x10	46	8x10	46		
				10x10	76	10x10	76		
33		8x10	66	8x10	46	10x10	76		
		10x10	113	10x10	76				
47		8x10	66						
		10x10	113						

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。