

HGS

- Chip type with 6.3Ø~16Ø, 125°C, 2,000 hours, long life product.
- Designed For automobile modules and other high temperature applications.
- RoHS Compliance.
- 6.3Ø~16ØV-Chip型, 125°C, 2,000小時長壽命產品。
- 專為汽車模組和其它高溫應用設計。



SPECIFICATIONS

Items 項目	Characteristics 特性									
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)									
Operating Temperature Range 適用溫度範圍	-55 ~ +125°C									
Rated Voltage Range 額定電壓範圍	6.3 ~ 100VDC									
Capacitance Range 靜電容量範圍	1 ~ 4700µF									
Leakage Current 洩漏電流	I ≤ 0.01CV or 3(µA) · which is greater. (After 3 minutes application of DC rated voltage, at 20°C)									
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C									
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100	
	tan δ(Max)	0.30	0.24	0.20	0.16	0.14	0.14	0.12	0.10	
Low Temperature Stability 低溫特性	Measurement Frequency: 120Hz.									
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100	
	Impedance Ratio(Max) 阻抗比率(最大值)	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	2	2
Load Life 負荷壽命	6.3V~50V:2,000hours (ΦD =6.3mm1,000hours);63V~100V:1,500 hours 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 放置壽命	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	Initial Specified Value or less								
Resistance to Soldering Heat 焊錫耐熱性	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 參照標準	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)				
C ≤ 22	0.50	0.80	0.90	1.00
22 < C ≤ 150	0.65	0.85	0.92	1.00
150 < C	0.70	0.85	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°C rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

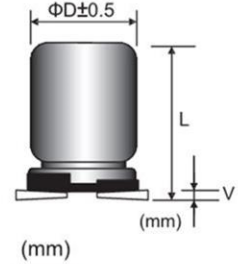
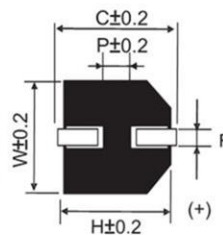
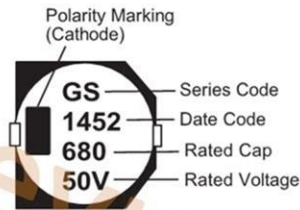
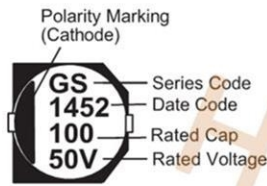
注: 以上所提供的設計及特性參數僅供參考, 任何修改不作預先通知, 如有使用上任何疑問, 請在採購前與我們聯繫, 以便提供技術上的協助。

DIMENSIONS(mm)

■ Chip Type

Fig.1 ØD=6~10mm

Fig.2 ØD≥12.5mm



Size	ØD	L±0.5	W	H	C	R	P	Vmax
6.3x6	6.3	6.0	6.6	6.6	7.3	0.5~0.8	2.1	0.3
6.3x7.7	6.3	7.7	6.6	6.6	7.3	0.5~0.8	2.1	0.3
8x10	8.0	10.0	8.3	8.3	9.0	0.7~1.1	3.2	0.3
10x10	10.0	10.0	10.3	10.3	11.0	0.7~1.3	4.5	0.3
12.5x13.5	12.5	13.5	13.0	13.0	13.7	1.1~1.4	4.5	0.4
16x16.5	16.0	16.5	17.0	17.0	18.0	1.1~1.4	6.4	0.4

STANDARD RATINGS

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

Cap (µF)	V	6.3			10			16			25		
		Item	D x L	R.C.	IMP	DxL	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.
33											6.3x6.0	70	1.6
47					6.3x6.0	70	1.6	6.3x6	70	1.6	6.3x7.7	110	0.90
100		6.3x6.0	70	1.6	6.3x7.7	110	0.90	8x10	160	0.40	6.3x7.7	110	0.90
220		6.3x7.7	110	0.90	6.3x7.7	110	0.90	8x10	160	0.40	8x10	160	0.40
					8x10	160	0.40				10x10	220	0.30
330		8x10	160	0.40	8x10	160	0.40	10x10	220	0.30	10x10	220	0.30
											12.5x13.5	550	0.12
470		8x10	160	0.40	10x10	220	0.30	12.5x13.5	550	0.12	12.5x13.5	550	0.12
680		10x10	220	0.30	12.5x13.5	550	0.12	12.5x13.5	550	0.12	12.5x13.5	550	0.12
1000		12.5x13.5	550	0.12	12.5x13.5	550	0.12	12.5x13.5	550	0.12	16x16.5	900	0.080
1500		12.5x13.5	550	0.12	12.5x13.5	550	0.12	16x16.5	900	0.080	16x16.5	900	0.080
2200		12.5x13.5	550	0.12	16x16.5	900	0.080	16x16.5	900	0.080			
3300		16x16.5	900	0.08	16x16.5	900	0.080						
4700		16x16.5	900	0.08									

Cap (µF)	V	35			50			63			100		
		Item	D x L	R.C.	IMP	DxL	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.
1					6.3x6.0	45	3.5						
2.2					6.3x6.0	45	3.5						
3.3					6.3x6.0	45	3.5						
4.7		6.3x6.0	60	2.0	6.3x6.0	45	3.5						
10		6.3x6.0	70	1.6	6.3x6.0	50	2.8				8x10	70	1.00
22		6.3x6.0	70	1.6	6.3x7.7	80	2.0	8x10	100	1.00	8x10	70	1.00
33		6.3x7.7	110	0.90	6.3x7.7	80	2.0	8x10	100	1.00	10x10	115	0.80
					8x10	140	0.70						
47		6.3x7.7	110	0.90	8x10	140	0.70	8x10	100	1	12.5x13.5	350	0.33
					8x10	160	0.40	10x10	240	0.50			
100		8x10	160	0.40	10x10	240	0.50	10x10	150	0.5	16x16.5	500	0.240
					10x10	220	0.30	12.5x13.5	490	0.23			
220		10x10	220	0.30	12.5x13.5	490	0.23	12.5x13.5	350	0.250			
								12.5x13.5	550	0.12	16x16.5	500	0.18
330		12.5x13.5	550	0.12	12.5x13.5	490	0.23	16x16.5	500	0.18			
					16x16.5	800	0.15						
470.0		12.5x13.5	550	0.12	16x16.5	800	0.15	16x16.5	500	0.18			
		16x16.5	900	0.080									
680.0		16x16.5	900	0.080	16x16.5	800	0.15						
1000.0		16x16.5	900	0.080									

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。