

SHG series

- 125°C, 5000 hours long life product. (4000 hours: 63V to 100V)
- Best-suited to smoothing circuits and control circuits for industrial equipment power supplies of which long life and high reliability are required.
- NC terminal added items are lineup for vibration resistance. (30G guaranteed: 20mm L or less)
- RoHS Compliance
- 125°C 5000 小時 (4000 小時: 63V to 100V) 產品
- 適用於要求長壽命和高可靠性的工業設備電源的平滑電路和控制電路
- NC 端子增加的項目為抗振系列。(保證 30G : 20mm L 以下)



SPECIFICATIONS

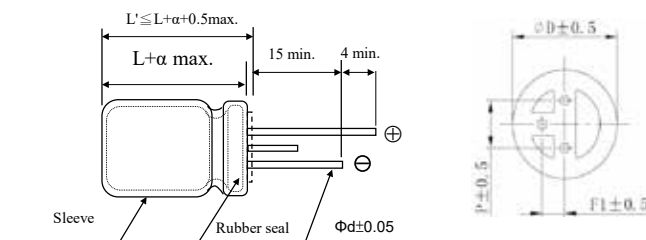
Items 項 目	Characteristics 特性								
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)								
Operating Temperature Range 適用溫度範圍	- 40 ~ +125°C								
Rated Voltage Range 額定電壓範圍	10~100VDC								
Leakage Current 洩漏電流	I≤0.01CV or 3 (uA)which is greater. (After 2 minutes application of DC rated voltage, at 20 °C)								
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C								
	Rated Voltage(V)	10	16	25	35	50	63	80	100
	tan δ (Max)	0.20	0.16	0.14	0.12	0.10	0.10	0.08	0.08
	When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF .								
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.								
	Rated Voltage(V)	10	16	25	35	50	63	80	100
	Z(-40°C) / Z(20°C)	4	3	3	3	3	3	3	3
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20°Cafter subjected to DC voltage with the rated ripple current is applied for 5,000 hours(63~100V,4000 hours) 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 1,000hours 125°C without voltage applied. Before the measurement. TheCapacitance 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							
Standards 參照標準	IEC 60384-4(JIS C 5101-4)								

Frequency Coefficient of Permissible Ripple Current

Capacitance (μ F)	Frequency (Hz)			
	50~60	120	1K	10K~100K
220~330	0.55	0.65	0.85	1.00
390~1000	0.70	0.75	0.90	1.00
1200~8200	0.80	0.85	0.95	1.00

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DIMENSIONS(mm)



ΦD	12.5	16	18	20
P	5.0	7.5	7.5	10
F1	2.5	3.8	3.8	5.0
α	2.0	2.0	2.0	2.0
Φd	0.8	0.8	0.8	1.0

STANDARD RATINGS

DxL(mm), R.C.(mA rms) at 125°C 100kHz.IMP:(Ω max) at 20°C,100kHz.

Cap (μF)	V Item	10			16			25			35		
		D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP
470											12.5x20	1830	0.055
1000	12.5x15	1390	0.077		12.5x20	1830	0.052	12.5x20	1830	0.052	12.5x25	2410	0.042
					16x16	1940	0.057	12.5x25	2410	0.042	16x25	3100	0.031
1200								16x16	1940	0.057	18x20	2490	0.038
								12.5x20	1830	0.052	12.5x30	2570	0.038
1500											16x20	2290	0.042
											12.5x35	2980	0.030
											16x31.5	3160	0.026
1800								18x25	3200	0.029			
								12.5x25	2410	0.042	12.5x40	3600	0.026
2200	12.5x25	2410	0.042					16x20	2290	0.042	16x25	3100	0.031
					12.5x25	2410	0.042	12.5x30	2570	0.038	16x31.5	3160	0.026
					16x25	3100	0.031	16x25	3100	0.031	16x35.5	3590	0.025
2700	18x16	2170	0.053		18x20	2490	0.038	18x20	2490	0.038	18x25	3200	0.029
								12.5x35	2980	0.030	16x35.5	3590	0.025
								16x25	3100	0.031	18x31.5	3410	0.023
3300	16x25	3100	0.031					18x20	2490	0.038	20x25	3500	0.029
					16x31.5	3160	0.026	12.5x40	3600	0.026	16x40	4300	0.022
					18x25	3200	0.029	16x31.5	3160	0.026	18x35.5	4200	0.022
3900								20x30	4000	0.025			
								16x35.5	3590	0.025			
4700	16x31.5	3160	0.026					18x25	3200	0.029			
					16x35.5	3590	0.025	18x35.5	4200	0.022	18x40	4600	0.021
5600	18x25	3200	0.029		18x31.5	3410	0.023	20x25	3500	0.029	20x35.5	4700	0.021
								16x40	4300	0.022			
								18x35.5	4200	0.022	20x40	5100	0.020
6800								20x30	4000	0.025			
								18x40	4600	0.021			
8200								20x35.5	4700	0.021			
								20x40	5100	0.020			

Cap (μF)	V Item	50			63			80			100		
		D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP
220											16x20	1110	0.286
330											16x25	1460	0.165
470	12.5x20	1500	0.091					16x25	1500	0.151	16x35.5	2000	0.100
560								18x25	1600	0.130	16x40	2200	0.090
820	12.5x30	2150	0.049		16x31.5	1910	0.104	18x35.5	2180	0.081	18x40	2330	0.077
1000	16x25	2620	0.04		16x35.5	2110	0.086	18x40	2470	0.066			
1800	18x31.5	3140	0.033										
2200	18x35.5	3510	0.029										