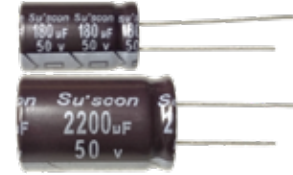


MG series

sales016@heyuecap.com

- 105°C 5000 hours~6000 hours, Low impedance at high frequency range
- Smaller case size and high ripple current
- RoHS Compliance
- 105°C 5000小時~6000小時, 高頻超低阻抗
- 小尺寸高紋波電流



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 ~ +105°C					
Rated Voltage Range 額定電壓範圍	6.3 ~ 35VDC					
Leakage Current 洩漏電流	I ≤ 0.01CV or 3(μA) 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)	6.3	10	16	25	35
	tan δ(Max)	0.21	0.18	0.15	0.13	0.11
	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)	6.3	10	16	25	35
	Z(-25°C)/Z(20°C)	2	2	2	2	2
	Z(-40°C)/Z(20°C)	3	2	2	3	3
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 6,000 hours (ΦD≤6.3:5,000 hours) at 105°C.					
	Capacitance Change	Within ± 25% of Initial Value				
	tan δ	200% 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 105°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 ± 20% of Initial Value				
	tan δ	200% or less of Initial Specified Value				
	Leakage Current	Initial Specified Value or less				
Standards 參照標準	IEC 60384-4(JIS C5101-4)					

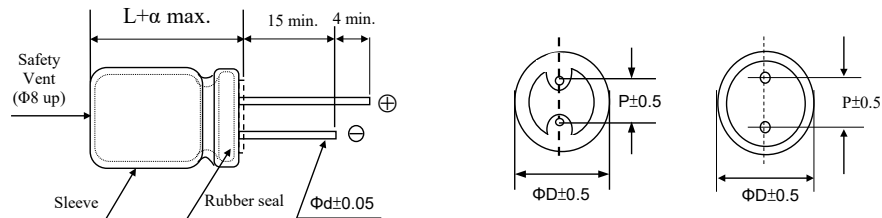
Frequency Coefficient of Permissible Ripple Current

Capacitance (μF)	Frequency (Hz)			
	120	1K	10K	100K
47 ~ 150	0.40	0.75	0.90	1.00
220 ~ 560	0.50	0.85	0.94	1.00
680 ~ 1800	0.60	0.87	0.95	1.00
2200 ~ 3900	0.75	0.90	0.95	1.00
4700 ~ 8200	0.85	0.95	0.98	1.00

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DIMENSIONS(mm)



ΦD	5	6.3	8	10	12.5	16
P	2.0	2.5	3.5	5.0	5.0	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8

α	(L < 20) 1.5
	(L ≥ 20) 2.0

STANDARD RATINGS

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

Cap (μF)	V	Item	6.3			10			16		
			D x L	IMP		R.C.	D x L	IMP		R.C.	D x L
				20°C	-10°C			20°C	-10°C		
100											5x11
150							5x11	0.230	0.760	360	6.3x11
220							6.3x11	0.100	0.330	450	6.3x11
330							6.3x11	0.100	0.330	550	8x11.5
470							8x11.5	0.059	0.181	820	8x11.5
680							8x11.5	0.059	0.181	990	8x15
820							8x11.5	0.059	0.181	990	10x12.5
1000							10x12.5	0.043	0.133	1250	10x16
1200							8x15	0.046	0.143	1300	8x20
1500							10x12.5	0.043	0.133	1360	10x16
1800							10x16	0.030	0.095	1650	10x20
2200							10x16	0.043	0.133	1360	10x20
2700							10x16	0.043	0.133	1360	10x20
3300							10x16	0.030	0.095	1650	10x20
3900							10x16	0.030	0.095	1650	10x20
4700							10x16	0.030	0.095	1650	10x20
5600							10x16	0.030	0.095	1650	10x20
6800							10x16	0.030	0.095	1650	10x20
8200							10x16	0.030	0.095	1650	10x20

Cap (μF)	V	25				35			
	Item	D x L	IMP		R.C	D x L	IMP		R.C
			20°C	-10°C			20°C	-10°C	
47						5x11	0.230	0.760	360
68		5x11	0.230	0.076	360	6.3x11	0.100	0.330	450
100		6.3x11	0.100	0.033	450	6.3x11	0.100	0.330	550
150		8x11.5	0.100	0.033	550	8x11.5	0.059	0.181	820
220		8x11.5	0.059	0.181	810	8x11.5	0.059	0.181	990
270		8x11.5	0.059	0.181	900	8x15	0.046	0.143	1330
330		8x11.5	0.059	0.181	990	10x12.5	0.043	0.133	1360
390		8x15	0.046	0.143	1330	8x20	0.031	0.105	1550
470		10x12.5	0.043	0.133	1360	10x16	0.030	0.095	1815
560		8x20	0.032	0.110	1550	10x20	0.030	0.095	2160
680		10x16	0.031	0.100	1815	10x25	0.027	0.080	2475
820		10x20	0.020	0.062	2160	12.5x20	0.022	0.066	2725
1000		10x25	0.018	0.055	2475	12.5x20	0.019	0.057	2920
1200		12.5x20	0.017	0.059	2650	12.5x25	0.017	0.052	3190
1500		12.5x20	0.017	0.059	2725	12.5x30	0.015	0.051	3795
						16x22	0.018	0.054	3575
1800		12.5x25	0.015	0.038	3190	12.5x35	0.011	0.029	3925
2200		12.5x30	0.012	0.031	3795	16x25	0.012	0.033	3990
		16x22	0.014	0.036	3575				
2700		12.5x35	0.011	0.029	3925				
3300		16x25	0.012	0.033	3990				