

MG series

- Lower impedance at high frequency range.
- Smaller case size and high ripple current.
- 較低阻抗於高頻範圍。
- 較小體積於高紋波電流。

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



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 工作電壓範圍	6.3 ~ 35V					
Leakage Current 洩漏電流	I ≤ 0.01CV or 3μA (After 2 minutes application of DC working 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 exceeds 1000μF, add 0.02 to the value above for each 1000μF increase. (20°C、120Hz)					
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	3	3	3	3
Load Life 負荷壽命	6,000hours, with application of working voltage at 105°C (ϕD ≤ 6.3 mm, 5,000hrs)					
	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	1,000hours, no voltage applied, at 105°C 。 After Test : Ur to be applied for 30 minutes, 24 to 48hours before measurement.					
	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	JIS C 5101-4-1 and JIS C 5101-2					

PERMISSIBLE RIPPLE CURRENT

Temperature Coefficient

TEMP (°C)	65	75	85	95	105
Coefficient	2.10	1.90	1.70	1.50	1.00

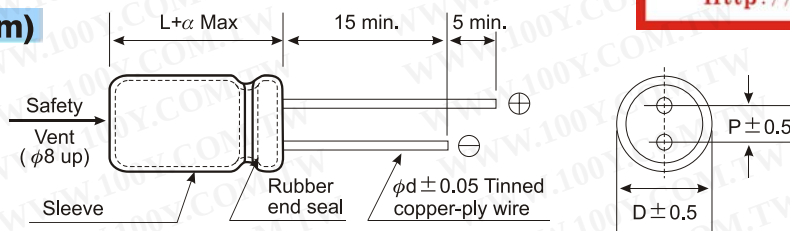
Frequency Coefficient

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)



φ D	5	6.3	8	10	13	16
P	2.0	2.5	3.5	5.0	5.0	7.5
φ d	0.5	0.5	0.5	0.6	0.6	0.8

α	(L < 16) 1.0 (L ≥ 16) 2.0
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STANDARD RATINGS

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

Cap (μF)	WV(V)(Code) Item	6.3 (0J)			10 (1A)			16 (1C)		
		D x L	IMP		D x L	IMP		D x L	IMP	
			20°C	-10°C		20°C	-10°C		20°C	-10°C
100								5x11	0.230	0.760
150					5x11	0.230	0.760	6.3x11	0.100	0.330
220	5x11	0.230	0.760	360	6.3x11	0.100	0.330	6.3x11	0.100	0.330
330	6.3x11	0.100	0.330	460	6.3x11	0.100	0.330	8x12	0.059	0.181
470	6.3x11	0.100	0.330	550	8x12	0.059	0.181	8x12	0.059	0.181
680	8x12	0.059	0.181	900	8x12	0.059	0.181	8x16	0.046	0.143
820	8x12	0.059	0.181	990	10x13	0.043	0.133	10x13	0.043	0.133
1000	10x13	0.043	0.133	1250	8x16	0.046	0.143	10x16	0.030	0.095
1200	10x13	0.043	0.133	1360	10x13	0.043	0.133	8x20	0.031	0.105
1500	8x20	0.031	0.105	1550	10x16	0.030	0.095	10x16	0.030	0.095
1800	10x16	0.030	0.095	1815	8x20	0.031	0.105	10x20	0.019	0.057
2200	10x20	0.019	0.057	2160	10x16	0.030	0.095	10x20	0.019	0.057
2700	10x25	0.017	0.051	2475	10x20	0.019	0.057	10x25	0.017	0.051
3300	13x21	0.016	0.041	2500	10x25	0.017	0.051	13x21	0.016	0.041
3900	13x21	0.016	0.041	2725	13x21	0.016	0.041	13x21	0.016	0.041
4700	13x25	0.014	0.036	3190	13x25	0.014	0.036	13x25	0.014	0.036
5600	13x30	0.012	0.031	3795	13x30	0.012	0.031	13x30	0.012	0.031
6800	13x35	0.011	0.029	3925	16x22	0.014	0.036	16x22	0.014	0.036
8200	16x26	0.012	0.033	3990	16x26	0.012	0.033	16x26	0.012	0.033

Cap (μF)	WV(V)(Code) Item	25 (1E)			35 (1V)		
		D x L	IMP		D x L	IMP	
			20°C	-10°C		20°C	-10°C
47					5x11	0.230	0.760
68	5x11	0.230	0.760	360	6.3x11	0.100	0.330
100	6.3x11	0.100	0.330	450	6.3x11	0.100	0.330
150	8x12	0.100	0.330	550	8x12	0.059	0.181
220	8x12	0.059	0.181	810	8x12	0.059	0.181
270	8x12	0.059	0.181	900	8x16	0.046	0.143
330	8x12	0.059	0.181	990	10x13	0.043	0.133
390	8x16	0.046	0.143	1330	8x20	0.031	0.105
470	10x13	0.043	0.133	1360	10x16	0.030	0.095
560	8x20	0.031	0.105	1550	10x20	0.019	0.057
680	10x16	0.030	0.095	1815	10x25	0.017	0.051
820	10x20	0.019	0.057	2160	13x21	0.016	0.041
1000	10x25	0.017	0.051	2475	13x21	0.016	0.041
1200	13x21	0.016	0.041	2180	13x25	0.014	0.041
1500	13x21	0.016	0.041	2725	13x30	0.012	0.031
1800	13x25	0.014	0.036	3190	16x22	0.014	0.036
2200	13x30	0.012	0.031	3795	13x35	0.011	0.029
2700	16x22	0.014	0.036	3575	16x26	0.012	0.033
3300	13x35	0.011	0.029	3925			
	16x26	0.012	0.033	3990			

※ 13mm may be replaced by 12.5mm upon customer's request.