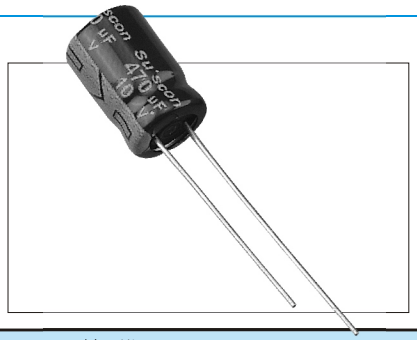
MG series

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。



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 (After 2 minutes application of DC working voltage, at 20 C)					
Dissipation Factor 散逸因素 (tan	Measurement Frequency: 120Hz. Temperature: 20 C					
	Rated Voltage (V)	6.3	10	16	25	35
	tan (Max)	0.21	0.18	0.15	0.13	0.11
	When nominal capacitance exceeds 1000 F, add 0.02 to the value above for each 1000 F increase. (20 C、120Hz)					
Low Temperature Stability 低溫特性 Impedance Ratio (Max) 阻抗比率 (最大值)	Measurement Frequency: 120Hz, Temperature: 20 C.					
	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 (D≦6.3 mm, 5,000hrs)					
	Capacitance Change	Within ±25% of Initial Value				
	tan	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	200% or less of Initial Specified Value				
	Leakage Current	Initial Specified Value or less				
Standards 參照標準	JIS C 5141 and JIS C 5102					

PERMISSIBLE RIPPLE CURRENT

Temperature Coefficient

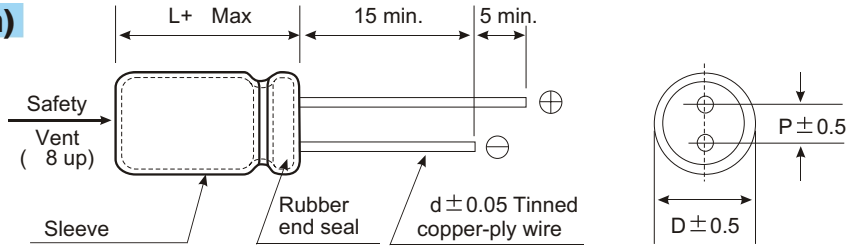
TEMP (C)	65	75	85	95	105
Coefficient	2.10	1.90	1.70	1.50	1.00

Frequency Coefficient

Capacitance (F	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

MG series

DIMENSIONS (mm)



D	5	6.3	8	10	13(12.5)	16
P	2.0	2.5	3.5	5.0	5.0	7.5
d	0.5	0.5	0.5	0.6	0.6	0.8

α	(L＜16) 1.0 (L≧16) 2.0

STANDARD RATINGS

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

Cap (F) / W V(V) / Item	6.3				10				16			
	D x L	IMP 20 C	IMP -10 C	R.C.	D x L	IMP 20 C	IMP -10 C	R.C.	D x L	IMP 20 C	IMP -10 C	R.C.
100									5 x 11	0.230	0.760	360
150					5 x 11	0.230	0.760	360	6.3 x 11	0.100	0.330	450
220	5 x 11	0.230	0.760	360	6.3 x 11	0.100	0.330	450	6.3 x 11	0.100	0.330	550
330	6.3 x 11	0.100	0.330	460	6.3 x 11	0.100	0.330	550	8 x 12	0.059	0.181	830
470	6.3 x 11	0.100	0.330	550	8 x 12	0.059	0.181	820	8 x 12	0.059	0.181	990
680	8 x 12	0.059	0.181	900	8 x 12	0.059	0.181	990	10 x 13 8 x 16	0.043 0.046	0.133 0.143	1360 1330
820	8 x 12	0.059	0.181	990	10 x 13	0.043	0.133	1250	10 x 16	0.030	0.095	1650
1000	10 x 13	0.043	0.133	1250	10 x 13 8 x 16	0.043 0.046	0.133 0.143	1360 1330	10 x 16 8 x 20	0.030 0.031	0.095 0.105	1815 1550
1200	10 x 13 8 x 16	0.043 0.046	0.133 0.143	1360 1300	10 x 16	0.030	0.095	1650	10 x 20	0.019	0.057	1930
1500	8 x 21	0.031	0.105	1550	10 x 16 8 x 20	0.030 0.031	0.095 0.105	1815 1550	10 x 20	0.019	0.057	2160
1800	10 x 16	0.030	0.095	1815	10 x 20	0.019	0.057	2160	10 x 25	0.017	0.051	2475
2200	10 x 20	0.019	0.057	2160	10 x 25	0.017	0.051	2475	13 x 21	0.016	0.041	2725
2700	10 x 25	0.017	0.051	2475	13 x 21	0.016	0.041	2450	13 x 25	0.014	0.036	3190
3300	13 x 21	0.016	0.041	2500	13 x 21	0.016	0.041	2725	13 x 30 16 x 21	0.012 0.014	0.031 0.036	3795 3575
3900	13 x 21	0.016	0.041	2725	13 x 25	0.014	0.036	3190	13 x 36	0.011	0.029	3925
4700	13 x 25	0.014	0.036	3190	13 x 30 16 x 21	0.012 0.014	0.031 0.036	3795 3575	16 x 26	0.012	0.033	3990
5600	13 x 30	0.012	0.031	3795	13 x 36	0.011	0.029	3925				
6800	13 x 36 16 x 21	0.011 0.014	0.029 0.036	3925 3575	16 x 26	0.012	0.033	3990				
8200	16 x 26	0.012	0.033	3990								

Cap (F) / W V(V) / Item	25				35			
	D x L	IMP 20 C	IMP -10 C	R.C.	D x L	IMP 20 C	IMP -10 C	R.C.
47					5 x 11	0.230	0.760	360
68	5 x 11	0.230	0.760	360	6.3 x 11	0.100	0.330	450
100	6.3 x 11	0.100	0.330	450	6.3 x 11	0.100	0.330	550
150	8 x 12	0.100	0.330	550	8 x 12	0.059	0.181	820
220	8 x 12	0.059	0.181	810	8 x 12	0.059	0.181	990
270	8 x 12	0.059	0.181	900	8 x 16	0.046	0.143	1330
330	8 x 12	0.059	0.181	990	10 x 13	0.043	0.133	1360
390	8 x 15	0.046	0.143	1330	8 x 20	0.031	0.105	1550
470	10 x 13	0.043	0.133	1360	10 x 16	0.030	0.095	1815
560	8 x 20	0.031	0.105	1550	10 x 20	0.019	0.057	2160
680	10 x 16	0.030	0.095	1815	10 x 25	0.017	0.051	2475
820	10 x 20	0.019	0.057	2160	13 x 21	0.016	0.041	2725
1000	10 x 25	0.017	0.051	2475	13 x 21	0.016	0.041	2920
1200	13 x 21	0.016	0.041	2180	13 x 25	0.014	0.041	3190
1500	13 x 21	0.016	0.041	2725	13 x 32	0.012	0.031	3795
					16 x 21	0.014	0.036	3575
1800	13 x 25	0.014	0.036	3190	13 x 36	0.011	0.029	3925
2200	13 x 30	0.012	0.031	3795	16 x 26	0.012	0.033	3990
	16 x 21	0.014	0.036	3575				
2700	13 x 36	0.011	0.029	3925				
3300	16 x 26	0.012	0.033	3990				

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