

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



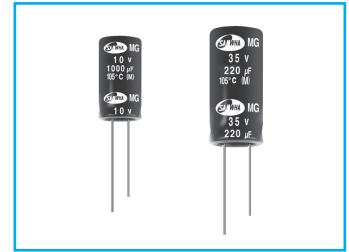
Upgrade

MG

Long Life Series

- Long Life
- For LED Lighting
- High reliability withstanding 20000 hours load life at 105°C
- Complied to the RoHS directive

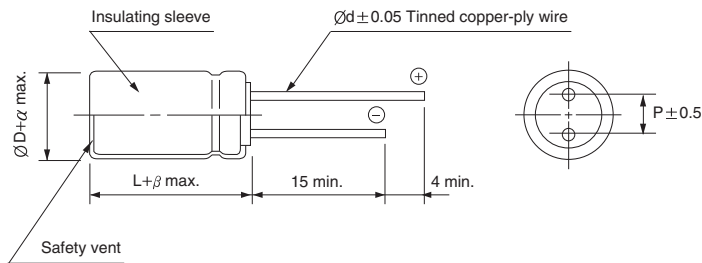
MH \Rightarrow MG
Long life



Item	Characteristics				
Operating temperature range	-40 ~ +105°C				
Leakage current max.	I = 0.03CV or 4µA whichever is greater (after 1 minutes)				
Capacitance tolerance	±20% at 120Hz, 20°C				
Dissipation factor max. (at 120Hz, 20°C)	WV	10	16	25	35
	tanδ	0.20	0.16	0.14	0.12
Low temperature characteristics (Impedance ratio at 120Hz)	WV	10	16	25	35
	Z-25°C/Z+20°C	3	2	2	2
	Z-40°C/Z+20°C	3	3	3	3
Load life (after application of the rated voltage for 20000 hours at 105°C)	Leakage current	Less than specified value			
	Capacitance change	Within ±30% of initial value			
	tanδ	Less than 300% of specified value			
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4				

DRAWING

Unit : mm



ØD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
Ød	0.6	0.6	0.8	0.8
α	0.5			
β	2.0			

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

µF \ WV	10		16		25		35	
100					10 × 12.5	420	10 × 16	672
220			10 × 12.5	504	10 × 12.5	840	10 × 20	1008
330	10 × 12.5	504	10 × 16	672	10 × 16	1008	12.5 × 20	1344
470	10 × 12.5	672	10 × 20	806	10 × 20	1344	12.5 × 20	1680
680	10 × 16	806	12.5 × 20	1008	12.5 × 20	1008	12.5 × 25	1879
1000	10 × 20	1008	12.5 × 25	1680	12.5 × 25	1680	16 × 25	2184
2200	12.5 × 25	1680	16 × 25	2016				
3300	16 × 25	2016	16 × 31.5	2184				
4700	16 × 31.5	2184						

↑ ↑
Ripple current (mA rms) at 105°C, 100kHz
Case size ØD×L (mm)

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	120Hz	1kHz	10kHz	50kHz	100kHz ≤
Coefficient	0.75	0.8	0.9	0.95	1.00

MINIATURE TYPES