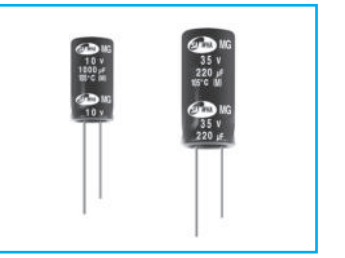
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

MG Long Life Series

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

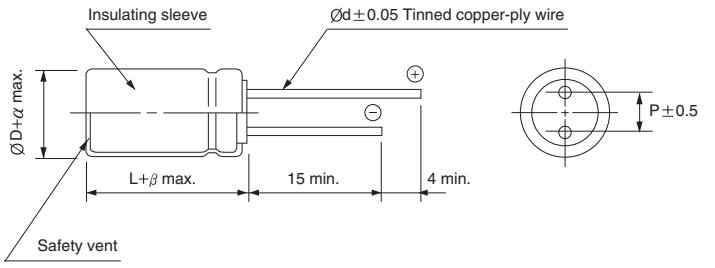
MH ⇨ MG
Long life



Item	Characteristics
Operating temperature range	-55 ~ +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-55˚C/Z+20˚C: 4 / 4 / 4 / 4
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 × 20	672
220			10 × 16	504	12.5 × 20	840	12.5 × 25	1008
330	10 × 16	504	10 × 20	672	12.5 × 25	1008	16 × 25	1344
470	10 × 20	672	12.5 × 20	1008	16 × 25	1344	16 × 31.5	1680
1000	12.5 × 25	1008	16 × 25	1344	16 × 31.5	1680	18 × 40	2184
2200	16 × 31.5	1680	18 × 35.5	2016				
3300	18 × 35.5	2016	18 × 40	2184				
4700	18 × 40	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