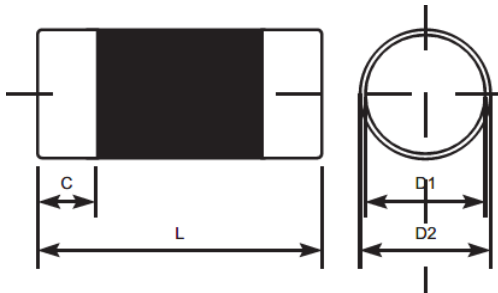




■ Features

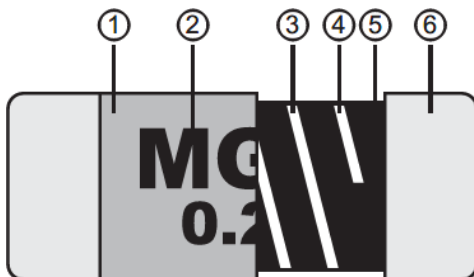
- * Miniature construction endurable to high voltage and high power.
- * Resistors excellent in anti-surge characteristics.
- * Wide resistance range $10^3 \sim 10^8 \Omega$ and Low T.C.R.

■ Dimension



Size Code	Dimension (mm)			
	L	D1	D2 Max	C Min
C (0207)	5.9±0.2	2.20±0.1	2.4	0.5
D (0309)	8.5±0.2	3.20±0.2	3.4	0.5
E (0411)	10.5±1.0	3.80±0.5	3.9	2.2
G (0416)	16.5±1.0	4.50±0.3	4.6	2.2

■ Construction

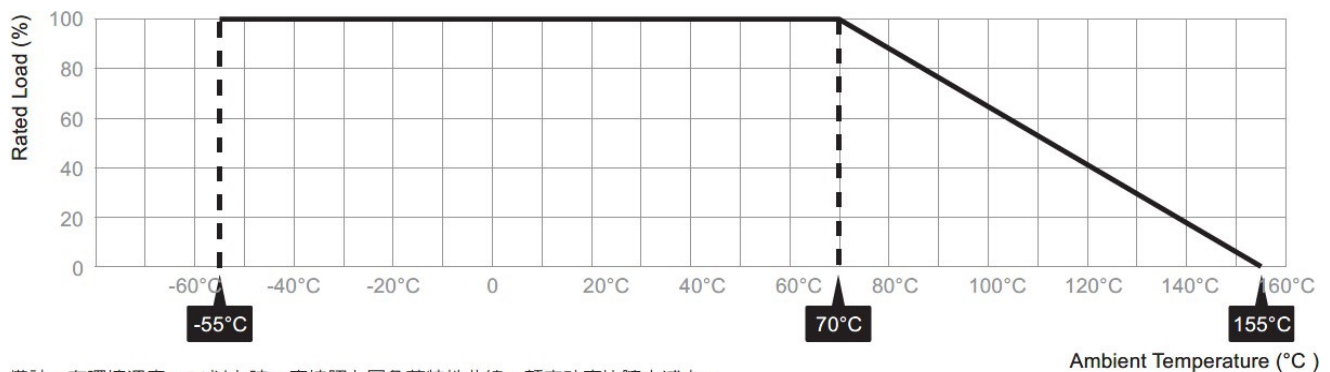


Item		Material
①	Insulation Coating	Epoxy Molding(Color : Black)
②	Marking	Printed
③	Cutting Line	-
④	Ceramic Core	Aluminum Material
⑤	Resistive Film	Metal Film
⑥	Terminal	Terminal Cap

■ Rated Power

Type	Rated Power	Max working Voltage	Max overload Voltage	Dielectric withstanding Voltage	Resistance Range	Operating temperature range
MGMC-25	0.25W	1600V	2000V	500V	1K Ω ~5.1M Ω	-55℃~+155℃
MGMD-50	0.5W	2000V	2500V	700V	1K Ω ~33M Ω	
MGME-100	1W	3500V	5000V	1000V	100K Ω ~56M Ω	
MGMG-200	2W	3500V	5000V	1000V	100K Ω ~100M Ω	

Derating Curve



備註：在環境溫度70°C以上時，應按照上圖負荷特性曲線，額定功率比隨之減少。

Note : for resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the above curve.

Characteristics

Item	Performance	Test methods
Temperature coefficient	<100KΩ ±350PPM/°C ≥100KΩ ±200PPM/°C	$\frac{R_1 - R_0}{R_1(T_1 - T_0)} \times 10^6 (\text{PPM}/^\circ\text{C})$ R ₀ : Resistance value at room temp. (T ₀). R ₁ : Resistance value at room temp. plus 100°C (T ₁).
Short time overload	within ±(1%+0.05Ω) No evidence of mechanical damage.	Rated voltage × 2.5 for 5 sec.
Resistance to soldering heat	within ±(1%+0.05Ω) No evidence of mechanical damage.	350±10°C, 3.5±0.5sec or 260±5°C, 10±1sec. After test leave for 3h.
Solderability	More than 95% of the total area of the electrode part shall be covered with new solder.	Test temperature of solder : 235±5°C. Dipping time in solder : 5±0.5sec.
Resistance to solvent	No deterioration of protective coating and markings.	Specimens shall be immersed in a bath of isopropyl salcohol completely for 3 minutes with ultrasoic.
Load life	within ±(5%+0.05Ω)	70±3°C, 1000h. Rated voltage(90 min ON, 30 min OFF)
Pulse overload	within ±(2%+0.05Ω)	Rated voltage × 4 times, 10000 cycle (1s ON, 25s OFF). But not to exceed maximum overload voltage.