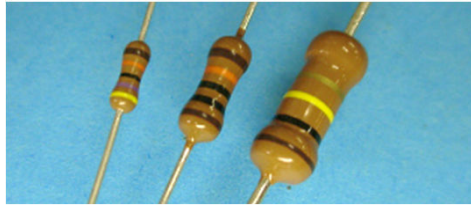
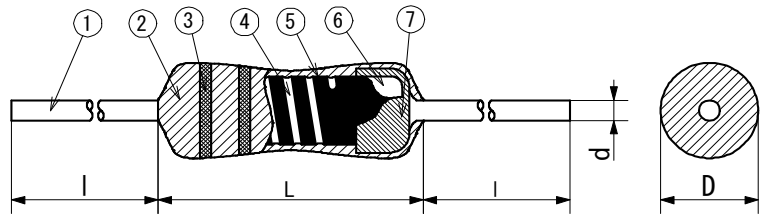




## Model No. HMGL



### ■ Constructions and Dimensions



①	lead wire	④	herical cutting groove	⑦	cap
②	insulation coat	⑤	conductive film		
③	color code	⑥	ceramic base		

### ■ Feature

- "HMGL" is glazed metal film resistor with high resistance.
- "HMGL" is suitable for circuit protection for surges.
- Available with the tolerance of  $\pm 0.5\%$ ,  $\pm 1.0\%$ ,  $\pm 2.0\%$ ,  $\pm 5.0\%$ .
- Body color : Brown

Type	Dimensions(mm)			
	L	D	l	d
HMGL1/4W	6.4±0.8	2.3±0.5	27 min.	0.6±0.1
HMGL1/2W	9.5±1.0	3.5±1.0	38±3	0.65±0.1
HMGL1W	14.2±1.6	4.8±1.0	38±3	1.0±0.1

### ■ Type Designation

Ex) HMGL1/4 B 10MΩ FTU

HMGL	1/4	B	10MΩ	F	TU
Type	Power Rating	T.C.R. [ppm/°C]	Resistance	Tolerance	Forming, Packaging
PAINT INSULATED GLAZED METAL FILM FIXED RESISTORS	1/4: 0.25W 1/2: 0.5W 1: 1W	A: ±100 B: ±250	E-24, E-96 series	D: ±0.5% F: ±1.0% G: ±2.0% J: ±5.0%	TU: 52mm Axial Taping TP: 26mm Axial Taping RP: Radial Taping No Marking : Bulk

※Please refer to  
General  
Specifications.

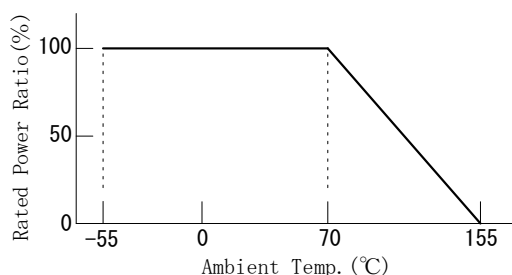
※Please refer to General Specifications.

### ■ Power Rating

Type	Power Rating	Max. Operational Voltage	Dielectric withstanding Voltage	Resistance Range [Ω]			T.C.R.	Rated Ambient Temp.	Operating Temp. Range
	[W]	[V]	[V]	D	F,G	J	[ppm/°C]	[°C]	[°C]
HMGL1/4	0.25	250	500	100k~10M	100k~50M	100k~50M	A: ±100 B: ±250	+70	-55~ +155
HMGL1/2	0.5	500	700	100k~10M	100k~50M	100k~100M			
HMGL1	1.0	750	1000	100k~10M	100k~50M	100k~500M			

※Rated Voltage :  $\sqrt{P \cdot R}$  (P=Rated power (W), R=Nominal resistance (Ω))

### ■ Derating Curve



### ■ Performance

Items	Characteristics	Test method
Short-time over load	resistance change within $\pm 0.5\%$ (A), $\pm 1.0\%$ (B)	JIS C 5201-1 4.13 Rated voltage×2.5 5s
Resistance to soldering heat	resistance change within $\pm 0.5\%$ (A), $\pm 1.0\%$ (B)	JIS C 5201-1 4.18 260°C 10s
Damp heat (steady state)	resistance change within $\pm 2.0\%$ (A), $\pm 3.0\%$ (B)	JIS C 5201-1 4.24 40°C, 95%RH, 1,000h 1.5hON, 0.5hOFF cycle
Endurance (rated load)	resistance change within $\pm 2.0\%$ (A), $\pm 3.0\%$ (B)	JIS C 5201-1 4.25.1 70°C, 1,000h 1.5hON, 0.5hOFF cycle