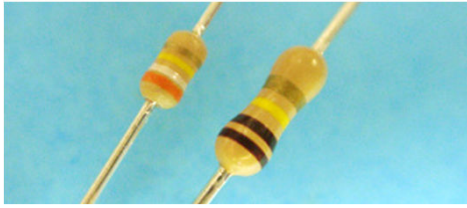
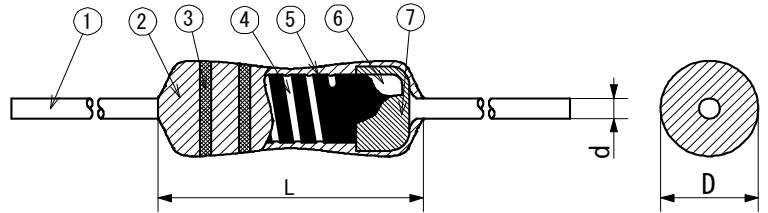


Model No. HGS



■ Constructions and Dimensions



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

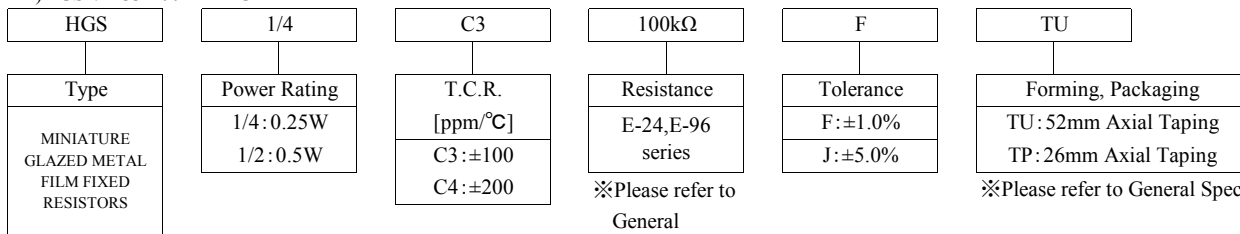
■ Feature

- This resistor (HGS) is miniature & lightweight type of High Resistance Fixed Resistor (HMGL).
- It is suitable for replacement of Miniature Metal Film Fixed Resistor (RNM), Miniature Carbon Film Fixed Resistor (NAT), requiring high resistance range of 100 kΩ or more.
- Available with the tolerance of ±1.0%, ±5.0%.
- Body color : Ivory

Type	Dimensions(mm)		
	L	D	d
HGS1/4W	3.4 max.	1.7±0.3	0.5±0.05
HGS1/2W	6.4±0.8	2.3±0.4	0.6±0.1

■ Type Designation

Ex)HGS1/4 C3 100kΩ FTU



※Please refer to General Specifications.

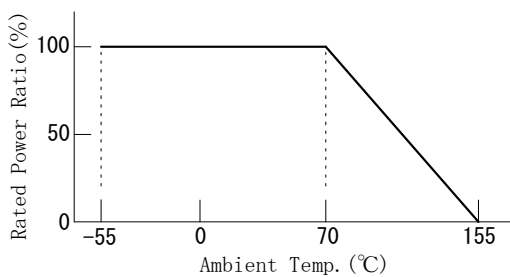
※Please refer to General Specifications.

■ Power Rating

Type	Power Rating	Max. Operational Voltage [V]	Dielectric withstanding Voltage [V]	Resistance Range [Ω]		T.C.R. [ppm/°C]	Rated Ambient Temp. [°C]	Operating Temp. Range [°C]
	[W]			F	J			
HGS1/4	0.25	250	500	100k~1M	100k~2.2M	C3:±100 C4:±200	+70	-55~+155
HGS1/2	0.5	350	700	100k~10M	100k~10M			

※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 ±0.5%	JIS C 5201-1 4.13 Rated voltage×2.5 5s
Resistance to soldering heat	resistance change within ±0.5%	JIS C 5201-1 4.18 260°C 10s
Damp heat (steady state)	resistance change within ±1.5%	JIS C 5201-1 4.24 40°C, 95%RH, 1,000h 1.5hON, 0.5hOFF cycle
Endurance (rated load)	resistance change within ±2.0%	JIS C 5201-1 4.25.1 70°C, 1,000h 1.5hON, 0.5hOFF cycle