Metal Glaze Film Fixed Resistors



Feature

- Provide high stable performance against environmental conditions and overload voltage
- Wide resistance range
- Low temperature coefficient



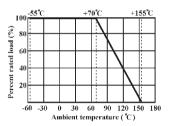


- ullet 5 band color code for $\pm 5\%$ tolerance, and last band Black color for identification
- Standard 5 band color code for $\pm 1\%$ tolerance

Surge Withstanding Voltage

TOC SOURCE C RX

Derating Curve



Normal Size: the discharge cycle is repeated in this circuit: 2.5 seconds "ON", 2.5 seconds "OFF", 50 cycles, C=0.001uF Small Size: the discharge cycle is repeated in this circuit: 2.5 seconds "ON", 2.5 seconds "OFF", 10 cycles, C=0.01uF The applied DC source voltage is shown as below table.

Metal Glaze Film Fixed Resistor

Part No.	Туре	Power Rating at 70°C	Dimension (mm)				Max.	Max.	Dielectronic	C	
			Dmax	Lmax	d +0.02 -0.05	H±3	Working Voltage	Overload Voltage	withstanding Voltage	Surge withstanding voltage	Resistance Value
Nomal Size	,										
MGR 0W4	MGR 25	1/4W	2.7	7	0.6	28	500V	700V	500V	100K-100M: 10000V	1K-100M (±5%,±10%) 100K-1M(±1%)
MGR 0W2	MGR 50	1/2W	3.8	10	0.6	28	700V	1000V	700V		
MGR 01W	MGR-100	1W	5.2	13	0.7	28	1000V	1400V	1000V		
MGR 02W	MGR-200	2W	6	17	0.8	28	1000V	1400V	1000V		
MGR 03W	MGR-300	3W	7	19	0.8	28	1000V	1400V	1000V		
Small size and Ultra s	mall size										
MGROU2	MGR-50-SS	1/2W	2.7	7	0.6	28	500V	700V	500V	100K-1M:3000V 1M1-6M2:4000V ≥6M8: 6000V	1K-33M (±5%,±10%)
MGROS2	MGR-50-S	1/2W	3.3	9.5	0.6	28	500V	700V	500V	100K-1M:3000V 1M1-6M2:4000V ≥6M8: 8000V	100K-1M (±1%)
MGR01U	MGR-100-SS	1W	3.8	10	0.6	28	700V	1000V	700V	100K-1M:4000V 1M1-6M2:5000V ≥6M8: 8000V	1K-33M (±5%,±10%) 100K-1M (±1%)
MGR01S	MGR-100-S	1W	4.7	11	0.6	28	700V	1000V	700V		
MGR02U	MGR-200-SS	2W	4.7	13	0.7	28	1000V	1400V	1400V	100K-1M:5000V 1M1-6M2:6000V ≥6M8: 9000V 100K-1M:5000V 1M1-6M2:6000V ≥6M8: 9000V 100K-1M:8000V 1M1-6M2:9000V ≥6M8:10000V	
MGR02S	MGR-200-S	2W	5.2	13	0.7	28	1000V	1400V	1000V		
MGR03U	MGR-300-SS	3W	5.2	13	0.8	28	1000V	1400V	1000V		
MGR03S	MGR-300-S	3W	6	17	0.8	28	1000V	1400V	1000V		
MGR03S	MGR-300-S	3W	6	17	0.8	28	1000V	1400V	1000V		



Performance Specifications

Temperature coefficient $\leq \pm 200PPM^{\circ}C$

Short-time overload $\Delta R/R \leq \pm (1\% + 0.05\Omega)$, with no evidence of mechanical damage.

Dielectric withstanding voltage No evidence of flashover, mechanical damage, arcing or insulation breakdown.

Pulse overload $\Delta R/R \leq \pm (2\% + 0.05\Omega)$, with no evidence of mechanical damage.

Terminal strength No evidence of mechanical damage.

Resistance to soldering heat $\Delta R/R \leq \pm (1\% + 0.05\Omega)$, with no evidence of mechanical damage.

Solderability Min. 95% coverage.

Resistance to solvent No deterioration of protective coating and markings.

Temperature cycling $\Delta R/R \leq \pm (1\%+0.05\Omega)$, with no evidence of mechanical damage. Load life in humidity $\Delta R/R \leq \pm (5\%+0.05\Omega)$, with no evidence of mechanical damage.

Load life $\quad \Delta R/R \leq \pm (5\% + 0.05\Omega),$ with no evidence of mechanical damage.

Ordering Procedure (Example: MGR 1W 5% 27M\Omega T/B-1000)

