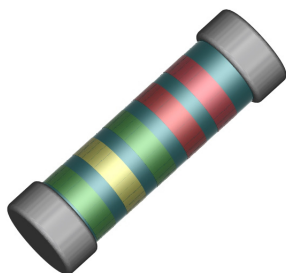


MGM Series

High Voltage Metal Glaze Film Resistors



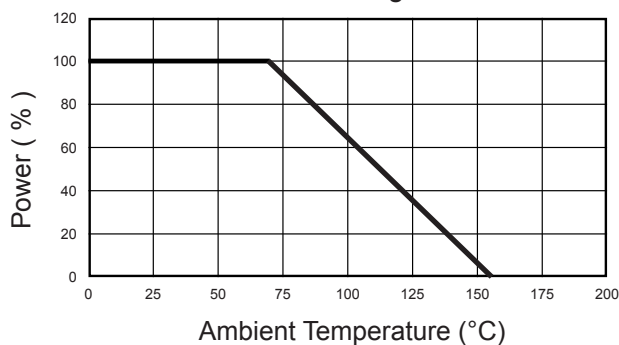
- Resistances from 50k Ohms to 2G Ohms
- Power Rating to 2 Watt
- Resistance Tolerances to $\pm 0.5\%$
- TCR's to $\pm 100\text{ppm/K}$
- Max Operating Voltage to 3000V

SPECIFICATIONS

Type	MGM55	MGM60	MGM65	MGM70
DIN	0207	0207	0411	0617
Resistance Range	50k to 1G		100k to 2G	
Power rating (70°C)	0.50W	1.0W	2.0W	2.0W
Tolerances	0.5% / 1% / 5% / 10%			
Temperature Coefficient	100 / 200ppm/K			
Max Operating Voltage	1600V _{DC}	1600V _{DC}	2000V _{DC}	3000V _{DC}
Short time Overload Voltage	3200V _{DC}	3200V _{DC}	4000V _{DC}	6000V _{DC}
Operating Temperature Range	-55 to 125°C			
Insulation Resistance	>1G			
Insulation Voltage	>500V			

Test	Conditions	Allowable Change $\Delta R/R$
Short Time Overload	2.5X rated power up to $2X V_{max}$; 5s	$\pm 0.10\% + 0.05 \Omega$
Solderability	Solder Bath; 260°C for 5s ± 1 s	
Temperature Cycling	30min at -55°C, 30min at +155°C, 5 cycles	
Humidity Cycling	40 $\pm 2^\circ\text{C}$, 93 $\pm 2\%$ RH, 56 days	$\pm 0.25\% + 0.05 \Omega$
Vibration	10 to 2000Hz for 6h	
Load Life	P_{70} up to V_{max} , 1.5h on 0.5h off, 1000h, 70°C	

Power Derating Curve

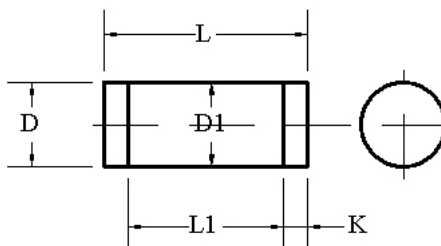


Ordering Information

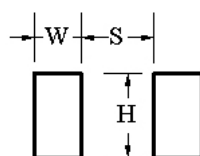
Part Number - Resistance - Tolerance
MGM55 100 kOhms 0.5%

SPECIFICATIONS (continued)

Dimensions



Type	Dimension	mm	tol. (±mm)	inches	tol. (±inches)
MGM55	L	5.70	0.25	0.22	0.008
	D	2.10	0.25	0.08	0.008
	K	0.60	0.1	0.02	0.004
	D1	1.95	MAX	0.077	MAX
MGM60	L	6.10	0.25	0.24	0.008
	D	2.10	0.25	0.08	0.008
	K	0.80	0.1	0.03	0.004
	D1	1.95	MAX	0.077	MAX
MGM65	L	8.70	0.25	0.34	0.008
	D	3.10	0.25	0.12	0.008
	K	1.00	0.1	0.04	0.004
	D1	2.90	MAX	0.11	MAX
MGM70	L	11.0	0.25	0.43	0.008
	D	3.90	0.25	0.15	0.008
	K	1.30	0.1	0.05	0.004
	D1	3.65	MAX	0.14	MAX



Type	Dimension	mm	tol. (±mm)	inches	tol. (±inches)
MGM55	S	3.3	0.25	0.13	0.008
	W	3.2	0.25	0.13	0.008
	H	3.2	0.25	0.13	0.008
MGM60	S	3.5	0.25	0.14	0.008
	W	4.0	0.25	0.16	0.008
	H	4.5	0.25	0.18	0.008
MGM65	S	5.6	0.25	0.22	0.008
	W	5.0	0.25	0.20	0.008
	H	5.0	0.25	0.20	0.008
MGM70	S	7.2	0.25	0.28	0.008
	W	7.0	0.25	0.28	0.008
	H	5.0	0.25	0.20	0.008