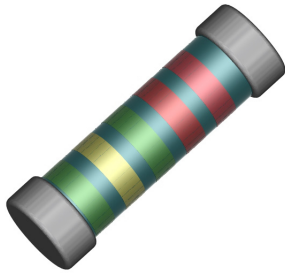


MFM Series

Film Resistors



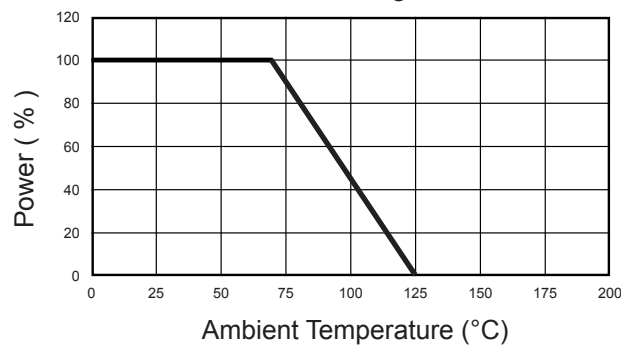
- Resistances from 10 Ohms to 10MOhms
- Power Rating to 1 Watt
- Resistance Tolerances to $\pm 0.05\%$
- TCR's to $\pm 5\text{ppm/K}$
- Convenient RN Type Package Styles

SPECIFICATIONS

Type	MFM55	MFM60	MFM65
DIN	0204	0207	
Resistance Range	10 Ohms to 10MOhms		
Power rating (70°C)	0.50W	0.60W	1.0W
Tolerances	0.05% / 0.1% / 0.25% / 0.5% / 1% / 5%		
Temperature Coefficient	5 / 10 / 15 / 25 / 50ppm/K		
Operating Voltage (Umax)	300V	300V	350V
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 $\pm 1s$	
Temperature Cycling	30min at -55°C, 30min at +155°C, 5 cycles	
Humidity Cycling	40 $\pm 2^\circ\text{C}$, 93 +2/-3% RH, 56 days	$\pm 0.25\% + 0.05 \Omega$
Vibration	10 to 2000Hz for 6h	
Load Life (1000h)	P_{70} up to V_{max} , 1.5h on 0.5h off, 1000h, 70°C	
Load Life (8000h)	P_{70} up to V_{max} , 1.5h on 0.5h off, 8000h, 70°C	$\pm 1.00\% + 0.05 \Omega$ (Tight Tolerance) $\pm 2.00\% + 0.05 \Omega$ (Normal Tolerance)

Power Derating Curve

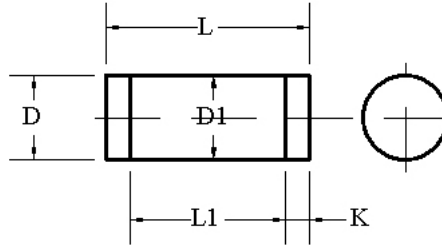


Ordering Information

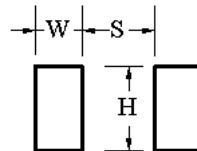
Part Number - Resistance - Tolerance
MFM55 100 kOhms 0.5%

SPECIFICATIONS (continued)

Dimensions



Type	Dimension	mm	tol. (±mm)	inches	tol. (±inches)
MFM55	L	3.50	0.2	0.14	0.008
	L1	1.50	0.2	0.06	0.008
	D	1.30	0.2	0.05	0.008
	K	0.60	0.1	0.02	0.004
	D1	1.30	MAX	0.051	MAX
MFM60	L	5.70	0.2	0.22	0.008
	L1	2.90	0.2	0.11	0.008
	D	2.10	0.2	0.08	0.008
	K	1.00	0.1	0.04	0.004
	D1	2.10	MAX	0.083	MAX
MFM65	L	6.00	0.2	0.24	0.008
	L1	3.20	0.2	0.16	0.008
	D	2.10	0.2	0.08	0.008
	K	1.00	0.1	0.04	0.004
	D1	2.10	MAX	0.083	MAX



Type	Dimension	mm	tol. (±mm)	inches	tol. (±inches)
MFM55	S	1.50	0.2	0.06	0.008
	W	2.80	0.2	0.11	0.008
	H	2.80	0.2	0.11	0.008
MFM60	S	2.90	0.2	0.11	0.008
	W	3.20	0.2	0.13	0.008
	H	3.20	0.2	0.13	0.008
MFM65	S	3.20	0.2	0.13	0.008
	W	3.50	0.2	0.14	0.008
	H	3.50	0.2	0.14	0.008

Ordering Information

MFM70 1 MOhms 5%

MFM55 100 kOhms 0.5%