

Precision Metal Film Fixed Resistor

Axial Leaded



Features

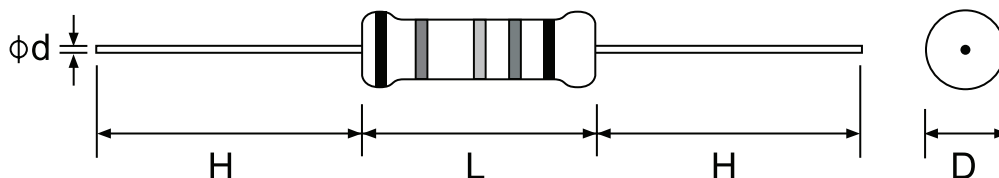
- EIA standard colour-coding
- Non-Flame type available
- Low noise and voltage coefficient
- Low temperature coefficient range
- Wide precision range in small package
- Too low or too high ohmic value can be supplied on a case to case basis
- Nichrome resistor element provides stable performance in various environments
- Multiple epoxy coating on vacuum-deposited metal film provides superior moisture protection

Performance Specification

Temperature Coefficient	: Within the maximum temperature coefficient specified.
Short Time Overload	: $\pm(0.5\% + 0.05\Omega)$ Max. with no evidence of mechanical damage.
Insulation Resistance	: Min. 1,000M Ω
Dielectric Withstanding Voltage	: No evidence of flashover, mechanical damage, arcing or insulation breakdown.
Pulse Overload	: $\pm(1\% + 0.05\Omega)$ Max. with no evidence of mechanical damage.
Terminal Strength	: No evidence of mechanical damage.
Resistance to Soldering Heat	: $\pm(1\% + 0.05\Omega)$ Max. with no evidence of mechanical damage.
Solderability	: Min. 95% coverage
Resistance to Solvent	: No deterioration of protective coating and markings
Temperature Cycling	: $\pm(1\% + 0.05\Omega)$ Max. with no evidence of mechanical damage.
Humidity (Steady state)	: $\pm(2\% + 0.05\Omega)$ Max. with no evidence of mechanical damage.
Load Life in Humidity	: Normal Type : $\pm(1.5\% + 0.05\Omega)$ Max. Non-Flame Type : $\pm(5\% + 0.05\Omega)$ Max.
Load Life	: Normal Type : $\pm(1.5\% + 0.05\Omega)$ Max. Non-Flame Type : $\pm(5\% + 0.05\Omega)$ Max.



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Style	Power Rating at +70°C	Dimension (mm)				
		D Max.	LMax.	H ±3	d ±0.05	PT
MF12	1/8W (125mW)	1.85	3.5	28	0.45	52
MF25	1/4W (250mW)	2.5	6.8		0.54*	
MF50	1/2W (500mW)	3.5	10		0.54	

Note:

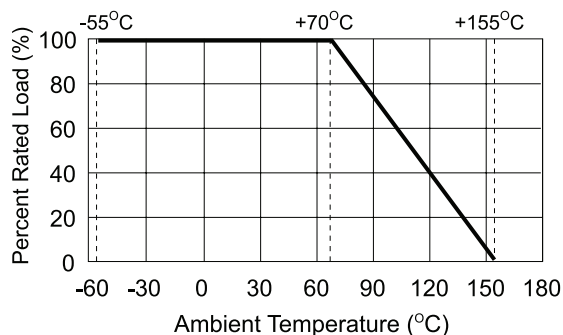
*Lead diameter of MCMF0W4 series can be provided in 0.5mm, 0.54mm and 0.6mm.

Specification Table

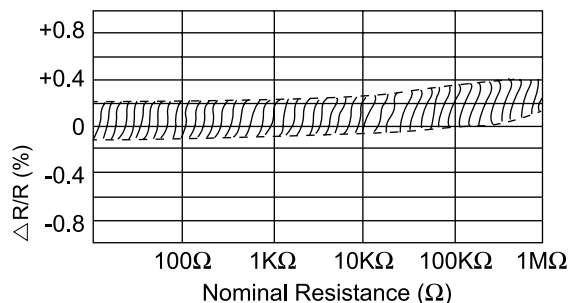
Style	Dielectric Withstanding Voltage (V)	Max. Working Voltage (V)	Max. Overload Voltage (V)	Resistance Tolerance	Temperature Coefficient	Resistance Range
MF12	400	200	400	±1%	±50ppm / °C	1Ω to 1MΩ
MF25	500	250	500			
MF50	700	350	700			

Dimensions : Millimetres

Derating Curve



Derating Curve



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Current Noise Level

