

# Precision Metal Film Fixed Resistor Axial Leaded



## Features

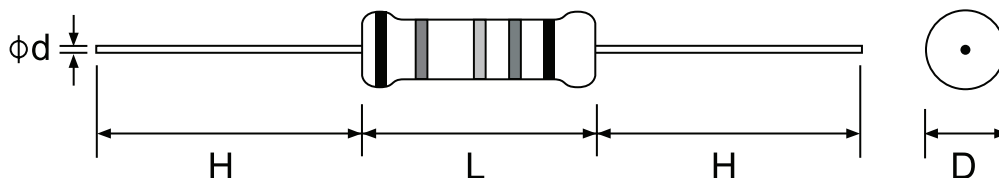
- EIA standard colour-coding
- Non-Flame type available
- Low noise and voltage coefficient
- Low temperature coefficient range
- Wide precision range in small package
- Too low or too high ohmic value can be supplied on a case to case basis
- Nichrome resistor element provides stable performance in 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 $\Omega$
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.
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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:

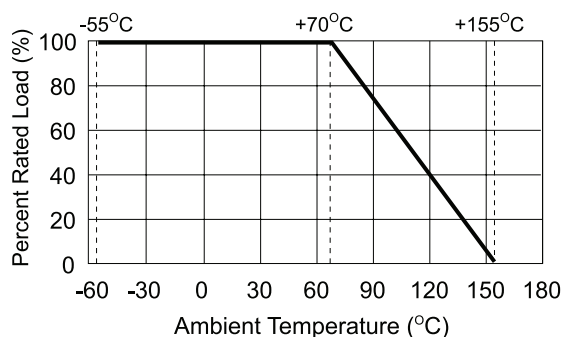
\*Lead diameter of MCMF0W4 series can be provided in 0.5mm, 0.54mm and 0.6mm.

## Specification Table

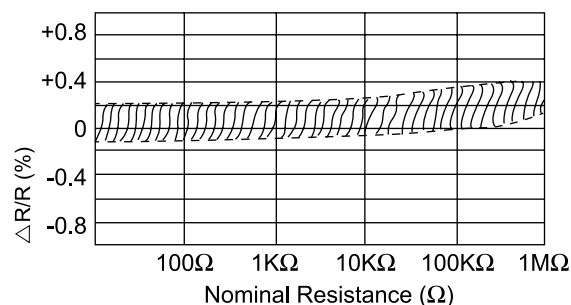
Style	Dielectric Withstanding Voltage (V)	Max. Working Voltage (V)	Max. Overload Voltage (V)	Resistance Tolerance	Temperature Coefficient	Resistance Range
MF12	400	200	400	±1%	±50ppm / °C	1Ω to 1MΩ
MF25	500	250	500			
MF50	700	350	700			

Dimensions : Millimetres

## Derating Curve



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### Current Noise Level

