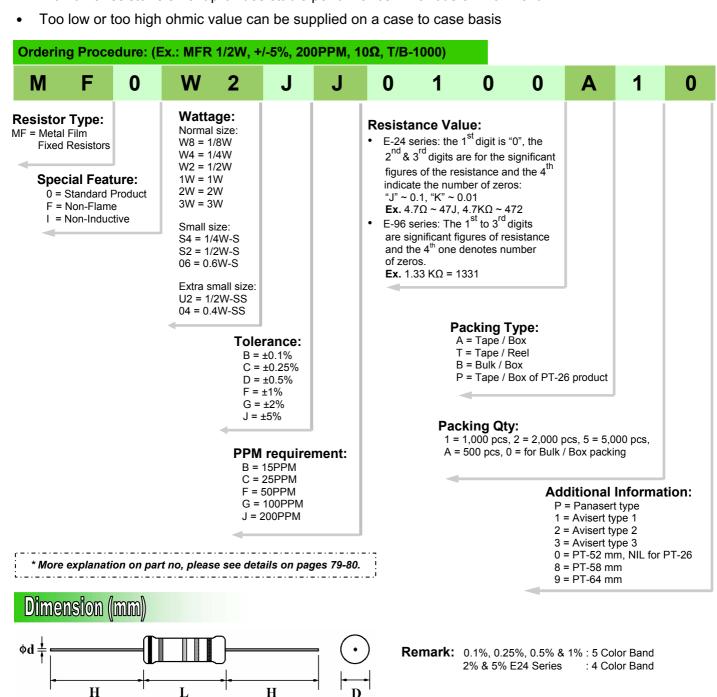


PRECISION METAL FILM FIXED RESISTORS

Features

2006 - 2007

- EIA standard color coding
- Non Flame type available
- Low noise & voltage coefficient
- Low temperature coefficient range
- Wide precision range in small package
- Multiple epoxy coating on vacuum deposited metal film provides superior moisture protection
- Nichrome resistor element provides stable performance in various environment







PRECISION METAL FILM FIXED RESISTORS

Normal Size

Part No.	Style	Power Rating at 70°C	Dimension (mm)					
			D Max.	L Max.	d ± 0.05	H ± 3		
MF0W8	MF-12	1/8W (0.125W)	1.85	3.5	0.45	28		
MF0W4	MF-25	1/4W (0.25W)	2.5	6.8	0.54 (2)	28		
MF0W2	MF-50	1/2W (0.5W)	3.5	10.0	0.54	28		
MF01W	MF-100	1W	5.0	12.0	0.70	28		
MF02W	MF-200	2W	5.5	16.0	0.70	28		
MF03W	MF-300	3W	6.5	17.5	0.75	28		

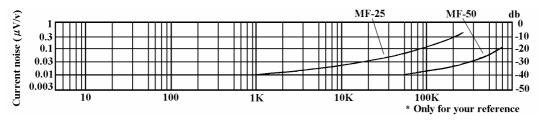
Small Size

Part No.	Style	Power Rating at 70°C	Dimension (mm)					
			D Max.	L Max.	d ± 0.05	H ± 3		
MF0S4	MF-25-S	1/4W (0.25W)	1.85	3.5	0.45	28		
MFF04	MF-40-SS	0.4W	1.9	3.7	0.45	28		
MFFU2	MF-50-SS	1/2W (0.5W)	2.5	6.8	0.54 (2)	28		
MF0S2	MF-50-S	1/2W (0.5W)	3.0	9.0	0.54	28		
MF006	MF-60-S	0.6W	2.5	6.8	0.54 ⁽²⁾	28		

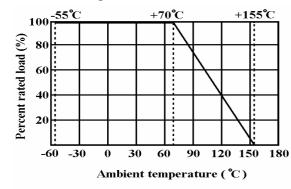
Note:

- Extra small size types (-SS) are non-flame coated.
- (2) Lead diameter of MF0W4, MF006 & MFFU2 can be provided in 0.50mm, 0.54mm & 0.60mm

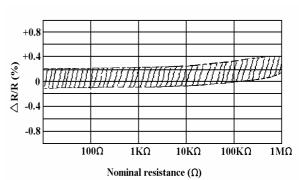
Current Noise Level



Derating Curve



Load Life





www.royalohm.com

PRECISION METAL FILM FIXED RESISTORS

General Specifications

Part No.	Style	Max. Working Voltage	Max. Overload Voltage	Dielectric With - standing Voltage	Resistance Tolerance	T.C.R.	Resistance Range	Special Order		
								Resistance Tolerance	T. C. R.	Resistance Range
MF0W8	MF-12				± 5%	±200PPM/°C	1Ω - 1ΜΩ	±0.25%	±15PPM°C	51.1Ω-200ΚΩ
MF0S4	MF-25-S	200V	400V	400V	± 2%	±100PPM/°C	10Ω - 1ΜΩ		±25PPM/°C	
MFF04	MF-40-SS	200V	400V	200V	± 1%	±50PPM/°C	10Ω - 1ΜΩ	±0.5%	±50PPM/°C	51.1Ω-511ΚΩ
							10 1110	±0.1%	4-000400	100Ω-100ΚΩ
MF0W4 MF-25 MF-60-S		250V	500V	500V	± 5% ± 2%	±200PPM/°C ±100PPM/°C	1Ω - 1MΩ 10Ω - 1MΩ	±0.25%	±15PPM/°C ±25PPM/°C	51.1Ω-330ΚΩ
MFFU2	MF-50-SS	250V	500V	250V	± 1%	±50PPM/°C	10Ω - 1ΜΩ	±0.5%	±50PPM/°C	10Ω–1ΜΩ
								±0.1%		100Ω-330ΚΩ
MF0W2 MF0S2	MF-50 MF-50S	350V	700V	700V	± 5% ± 2%	±200PPM/°C ±100PPM/°C	1Ω - 1MΩ 10Ω - 1MΩ	±0.25%	±15PPM/°C ±25PPM/°C	51.1Ω-511ΚΩ
WII 002					± 1%	±50PPM/°C	10Ω - 1ΜΩ	±0.5%	±50PPM/°C	10Ω–1ΜΩ
					± 5%	±200PPM/°C	10Ω - 1ΜΩ	±0.1%	±15PPM/°C	100Ω-330ΚΩ
MF01W MF02W MF03W	MF-100 MF-200 MF-300	500V	1,000V	1,000V	± 2%	±100PPM/°C	51.1Ω - 1ΜΩ	±0.25%	±25PPM/°C	51.1Ω-511ΚΩ
					± 1%	±50PPM/°C	51.1Ω - 1ΜΩ	±0.5%	_ ±50PPM/°C	51.1Ω-1ΜΩ

Note: MF - xx - ss is Non-Flame coating.

Performance Specifications

Temperature coefficient Within the maximum temperature coefficient specified

Short time overload $\Delta R/R \le \pm (0.5\% + 0.05\Omega)$, with no evidence of mechanical damage.

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

Pulse overload $\Delta R/R \le \pm (1.0\% + 0.05\Omega)$, with no evidence of mechanical damage.

Terminal strength No evidence of mechanical damage.

Resistance to soldering heat $\Delta R/R \le \pm (1.0\% + 0.05\Omega)$, with no evidence of mechanical damage.

Solderability Min. 95% coverage

Resistance to solvent No deterioration of protective coating and markings.

Temperature cycling $\Delta R/R \le \pm (1.0\% + 0.05\Omega)$, with no evidence of mechanical damage.

 $\textbf{Load life in humidity} \qquad \text{Normal type: } \Delta R/R \leq \pm \ 1.5\%; \ \text{Non-Flame type: } \Delta R/R \leq \pm \ 5\%$

Load life Normal type: $\Delta R/R \le \pm 1.5\%$; Non-Flame type: $\Delta R/R \le \pm 5\%$

*More details, please see pages 77-78.



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