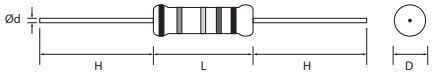
Precision Metal Film Fixed Resistors

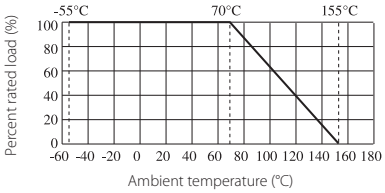
Feature

- EIA standard color.
- Flame Retardant type available
- Low noise & voltage coefficient
- Low temperature coefficient range
- Multiple epoxy coating on vacuum-deposited metal film provideds superior moisture protection
- Nichrome resistive element provides stable performance in various environments

Dimension (mm)



Derating Curve



Specification

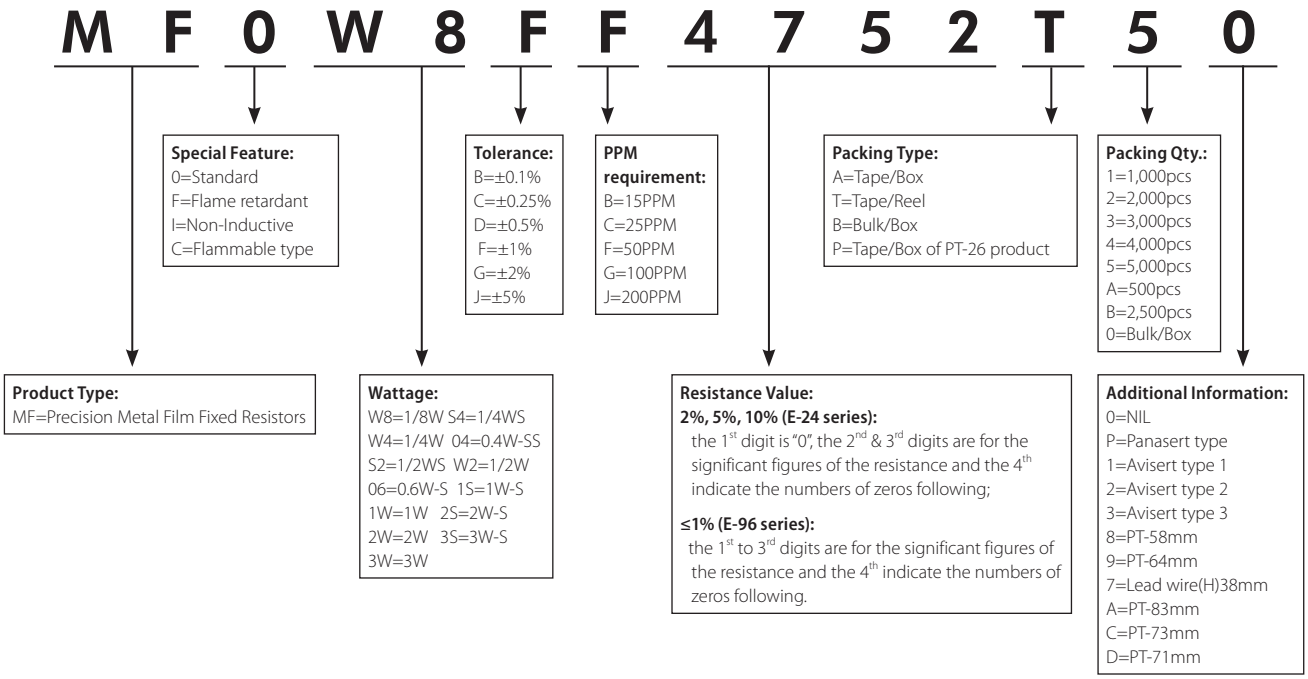
Part No	Type	Power Rating 70 °C	Dimension (mm)					MAX. Working Voltage	MAX. Overlaod Voltage	Dielectric Withstanding Voltage
			D	L	d ±0.05	H±3	PT			
MF0W8	MF-12	1/8W	1.9±0.3	3.3±0.3	0.45	28	52	200V	400V	400V
MF0S4	MF-25-S	1/4W-S	1.9±0.3	3.3±0.3	0.45	28	52			
MF004	MF-40-SS	0.4W-SS	1.9±0.5	3.3±0.3	0.45	28	52	200V	400V	400V
MF0W4	MF-25	1/4W	2.2±0.3	6.5±1.0	0.54	28	52	250V	500V	500V
MF0S2	MF-50-S	1/2W-S	2.2±0.5	6.5±1.0	0.54	28	52	250V	500V	250V
MF0W2	MF-50	1/2W	3.0±0.6	9.5±1.0	0.54	28	52	350V	700V	700V
MF006	MF-60-S	0.6W-S	2.2±0.5	6.5±1.0	0.54	28	52	250V	500V	500V
MF01S	MF-100-S	1W-S	3.0±0.6	9.5±1.0	0.54	28	52	350V	700V	700V
MF01W	MF-100	1W	4.5±0.6	11.5±1.0	0.70	25	52	500V	1000V	1000V
MF02S	MF-200-S	2W-S	4.5±0.6	11.5±1.0	0.70	25	52	500V	1000V	1000V
MF02W	MF-200	2W	5.0±0.6	15.5±1.0	0.70	28	64	500V	1000V	1000V
MF03S	MF-300-S	3W-S	5.0±0.6	15.5±1.0	0.70	28	64	500V	1000V	1000V
MF03W	MF-300	3W	6.0±0.6	17.5±1.0	0.75	28	64	500V	1000V	1000V

Part No	Type	Standard Order			Special Order		
		Tolerance	Resistance Range	TCR	Tolerance	Resistance Range	TCR
MF0W8 **MF0S4** **MF004**	MF0W8 MF0S4 MF004	±1%	10Ω~1MΩ	±50	±0.25%	51.1Ω~200KΩ	±15
		±2%	10Ω~1MΩ	±100	±0.5%	51.1Ω~511KΩ	±25
		±5%	1Ω~1MΩ	±200	±0.5%	51.1Ω~511KΩ	±50
MF0W4 **MF0S2** **MF006**	MF-25 MF-50-S MF-60-S	±1%	10Ω~1MΩ	±50	±0.1%	10Ω~1MΩ	±15
		±2%	1Ω~1MΩ	±100	±0.25%	10Ω~1MΩ	±25
		±5%	1Ω~1MΩ	±200	±0.5%	10Ω~1MΩ	±50
MF0W2 **MF01S**	MF-50 MF-100-S	±1%	10Ω~1MΩ	±50	±0.1%	100Ω~330KΩ	±15
		±2%	10Ω~1MΩ	±100	±0.25%	51.1Ω~511KΩ	±25
		±5%	1Ω~1MΩ	±200	±0.5%	10Ω~1MΩ	±50
MF01W **MF02S** **MF02W** **MF03S** **MF03W**	MF-100 MF-200-S MF-200 MF-300-S MF-300	±1%	51.1Ω~1MΩ	±50	±0.1%	100Ω~330KΩ	±15
		±2%	51.1Ω~1MΩ	±100	±0.25%	51.1Ω~511KΩ	±25
		±5%	1Ω~1MΩ	±200	±0.5%	51.1Ω~1MΩ	±50

Performance Specification

Short-time Overload	ΔR/R ≤ ±(0.5%+0.05 Ω),with no evidence of mechanical damage
Dielectric withstanding voltage	With no evidence of flashover, mechanical damage,arcing or insulation breakdown
Pulse Overload	ΔR/R ≤ ± (1%+0.05),with no evidence of mechanical damage
Terminal strength	No evidence of mechanical damage
Soldering heat	ΔR/R ≤ ±(1%+0.05 Ω) with no evidence of mechanical damage
Solderability	Coverage must be over 95%.
Resistance to solvent	No deterioration of protective coating and markings
Rapid change of temperature	ΔR/R ≤ ±(1%+0.05 Ω) with no evidence of mechanical damage
Load life in humidity	Normal type: ΔR/R ≤ ±1.5% & Flame retardant type: ΔR/R ≤ ±5%
Load life	Normal type: ΔR/R ≤ ±1.5% & Flame retardant type: ΔR/R ≤ ±5%

Ordering Procedure (Example: MF 1/8W 1% 47.5KΩ T/R-5000)



New/Old Part.no Contrast

New Part.no	Old Part.no
MF0W8FF**A*0**	MFR0W8F****A*0
MF0S4FF**A*0**	MFR0S4F****A*0
MF004FF**A*0**	MFR004F****A*0
MF0W4FF**A*0**	MFR0W4F****A*0
MF0S2FF**A*0**	MFR0S2F****A*0
MF0W2FF**A*0**	MFR0W2F****A*0
MF006FF**A*0**	MFR006F****A*0

New Part.no	Old Part.no
MF01SFF**A*0**	MFR01SF****A*0
MF01WFF**A*0**	MFR01WF****A*0
MF02SFF**A*0**	MFR02SF****A*0
MF02WFF**A*0**	MFR02WF****A*0
MF03SFF**A*0**	MFR03SF****A*0
MF03WFF**A*0**	MFR03WF****A*0

Remark: For more details, please check page 135, Part No. System