

Precision Metal Film Fixed Resistors

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. 10,000 Mega Ohm

Dielectric Withstanding Voltage
No evidence of flashover, mechanical damage, arcing or insulation breakdown.

Pulse Overload $\pm (1.0\% + 0.05\Omega)$ Max, with no evidence of mechanical damage.

Terminal Strength No evidence of mechanical damage.

Resistance to Soldering Heat $\pm (1.0\% + 0.05\Omega)$ Max, with no evidence of mechanical damage.

Solderability Min. 95% coverage.

Resistance to Solvent No deterioration of protective coating and markings.

Temperature Cycling $\pm (1.0\% + 0.05\Omega)$ Max, with no evidence of mechanical damage. Humidity (Steady state) $\pm (2.0\% + 0.05\Omega)$ Max, with no evidence of mechanical damage.

Load Life in Humidity Normal type: $\pm (1.5\% + 0.05\Omega)$ Max

Non-Flame type: $\pm (5.0\% + 0.05\Omega)$ Max

Load Life Normal type: $\pm (1.5\% + 0.05\Omega)$ Max Non-Flame type: $\pm (5.0\% + 0.05\Omega)$ Max

Ordering Procedure: Ex.: MFR 1/2W, +/-5%, 200PPM, 10Ω, T/B-1000

M F 0 W 2 J J 1 0 0 Α 1 0 Type: Wattage: Resistance Value: MF = Metal Film Normal size E-24 series: MT = Metal Film W8 = 1/8W1st digit is "0" Tin plated W4 = 1/4W2nd & 3rd digits are the significant copper steel W2 = 1/2Wfigures of the resistance lead wire 4th indicates the number of zeros: 1W = 1W "J" ~ 0.1, "K" ~ 0.01 2W = 2W**Ex.:** $4.7\Omega \sim 47J$, $4.7K\Omega \sim 472$ 3W = 3W· E-96 series: Small size 1st to 3rd digits are the significant S4 = 1/4W-Sfigures of the resistance and S2 = 1/2W-Sthe 4th digit indicates the number of zeros. 06 = 0.6W-SFeature: M7 = 0.75W-S**Ex.:** 1.33K Ω = 13310 = Standard 1S = 1W-SPacking Type: F = Non-Flame 2S = 2W-S3S = 3W-SI = Non-Inductive A = Tape/Box T = Tape/Reel B = Bulk/BoxExtra small size P = Tape/Box of PT-26mm U2 = 1/2W-SS04 = 0.4W-SSPacking Qty: 1 = 1,000 pcs. 2 = 2,000 pcs.4 = 4.000 pcs. 5 = 5.000 pcs.Tolerance: A = 500 pcs.B = 2,500 pcs. $B = \pm 0.1\%$ $F = \pm 1\%$ 0 = Bulk/Box $C = \pm 0.25\%$ $G = \pm 2\%$ $D = \pm 0.5\%$ $J = \pm 5\%$ Additional Information: P = Panasert type 1 = Avisert type PPM requirement: 2 = Avisert type 2 B = 15ppm3 = Avisert type 3 C = 25ppm0 = PT-52mm, PT-26mm, F = 50ppmStandard lead wire for Bulk/Box 8 = PT-58mm G = 100ppm9 = PT-64mm J = 200ppm7 = Lead wire (H) 38mm





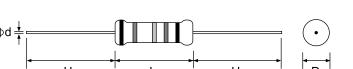
Precision Metal Film Fixed Resistors

Features

- · EIA standard color coding
- Non-Flame type available
- · Low noise & 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 environment
- Multiple epoxy coating on vacuum deposited metal film provides superior moisture protection



Standard : 2% ,5% ,10% -- E - 24 series 1% -- E - 96 series



Part No.	Style	Power Rating at 70°C		Std									
			D Max	L Max	H±3	d±0.05	PT	Packing Qty					
Normal Size													
MF0W8	MF 12	1/8W (0.125W)	1.85	3.5	28	0.45	52	5,000					
MF0W4	MF 25	1/4W (0.25W)	2.5	6.8	28	0.54(1)	52	5,000					
MF0W2	MF 50	1/2W (0.50W)	3.5	10.0	28	0.54	52	1,000					
MF01W	MF 100	1W	5.0	12.0	25	0.70	52	1,000					
MF02W	MF 200	2W	5.5	16.0	28	0.70	64	1,000					
MF03W	MF 300	3W	6.5	17.5	28	0.75	64	500					
Small Size													
MF0S4	MF 25-S	1/4W (0.25W)	1.85	3.5	28	0.45	52	5,000					
MFF04	MF 40-SS	0.4W	1.9	3.7	28	0.45	52	5,000					
MFFU2	MF 50-SS	1/2W (0.50W)	2.5	6.8	28	0.54(1)	52	5,000					
MF0S2	MF 50-S	1/2W (0.50W)	3.0	9.0	28	0.54	52	4,000					
MF006	MF 60-S	0.6W	2.5	6.8	28	0.54(1)	52	5,000					
MF0M7	MF 75-S	0.75W	3.5	10.0	28	0.54	52	1,000					
MF01S	MF 100-S	1W	3.5	10.0	28	0.54	52	1,000					
MF02S	MF 200-S	2W	5.0	12.0	25	0.70	52	1,000					
MF03S	MF 300-S	3W	5.5	16.0	28	0.70	64	1,000					

Note:

- Extra small size types (-SS) are Non flame coating (Dark Green color).
- (1) Lead diameter of MF0W4, MF006 & MFFU2 can be provided in 0.50mm, 0.54mm & 0.60mm

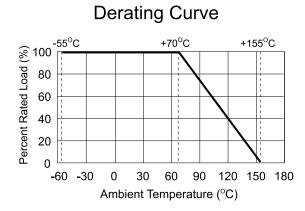




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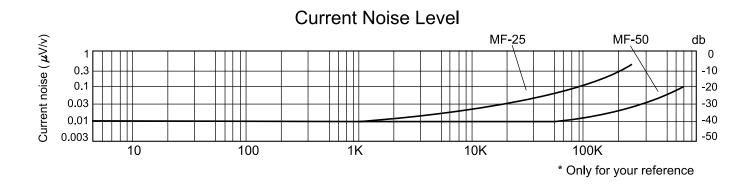
Part No.	Style	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Tolerance %	Resistance Range	T.C.R.	Special Order		
								Tolerance %	Resistance Range	T.C.R.
MF0W8	MF 12	200V	400V	400V	±1% ±2% ±5%	10Ω ~1MΩ 10Ω ~1MΩ 1Ω ~1MΩ	±50PPM/°C ±100PPM/°C ±200PPM/°C	±0.25%	51.1Ω~200KΩ	±15PPM/°C ±25PPM/°C ±50PPM/°C
MF0S4	MF 25-S	200 V	400 V	400 V				±0.5%	51.1Ω ~511ΚΩ	
MFF04	MF 40-SS	200V	400V	200V				10.5%		
MF0W4	MF 25	250)/	500/	500V	$\pm 1\%$ 10Ω ~1MΩ $\pm 2\%$ 10Ω ~1MΩ $\pm 5\%$ 1Ω ~1MΩ		±50PPM/°C ±100PPM/°C	±0.1%	100Ω~100ΚΩ	±15PPM/°C ±25PPM/°C
MF006	MF 60-S	250V	500V					±0.25%	51.1Ω~300KΩ	
MFFU2	MF 50-SS	250V	500V	250V		±200PPM/°C	±0.5%	10Ω~1MΩ	±50PPM/°C	
MF0W2	MF 50	IF 50-S 350V	700V	700V	$\pm 2\%$ $10\Omega \sim 1M\Omega$:		±50PPM/°C ±100PPM/°C	±0.1%	100Ω~330ΚΩ	±15PPM/°C ±25PPM/°C
MF0S2 MF0M7	MF 50-S MF 75-S							±0.25%	51.1Ω~511KΩ	
MF01S	MF 100-S					±200PPM/°C	±0.5%	10Ω~1MΩ	±50PPM/°C	
MF02S MF03S	MF 200-S MF 300-S		500V 1,000V	1,000V		51.1Ω ~1MΩ 51.1Ω ~1MΩ	±100PPM/°C	±0.1%	100Ω~330ΚΩ	
MF01W	MF 100	500V							51.1Ω~511KΩ	
MF02W MF03W	MF 200 MF 300					±200PPM/°C	±0.5%	51.1Ω~1MΩ	±50PPM/°C	

Note: MFFU2 (MF50-SS) Dielectric Withstanding Voltage Non flame 250V Epoxy 500V



+0.8 +0.4 0 $\frac{8}{2}$ -0.4 -0.8 100Ω 1ΚΩ 10ΚΩ 100ΚΩ 1ΜΩ Nominal Resistance (Ω)

Load Life





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FRN25J330R FRN50J1R0S H4100RBYA H415RBZA H41K1BYA H41K5BYA H41M0BDA H420R5BCA H421R5BZA H4221RBYA
H424K3BDA H442K2BDA H45K62BZA H4634RBZA H473R2BZA H4931KBZA H8160KFDA H8274KBZA H82K0FDA H82K0FZA
H8499RBCA H87K5DYA RLR05C1501GPB14 RLR05C6201GS RLR20C3240FRB14 RLR20C51R0GMB14 RLR32C7R50FMB14
RNC55H4642FPB14 HR01623J HR01682J 270-1.69M-RC 270-4.02M-RC LR0204F110R LR0204F18R LR0204F20K LR0204F20R
LR0204F510R LR1F121R LR1F133K LR1F383R LR1F3K01 LR1F4K75 LR2F330RJIT LR2F51R LR2F910R ERX-2SZJR20E SQMR5390RJ
SQMR53K3J SQMR73K3J SQMR74K7J