

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	0	1	0	0	Α	1	0			
Type: MF = Metal Film	Wattage: Normal size			stance Valu 4 series:	ue:							
MT = Metal Film	W8 = 1/8W		1 st digit is "0"									
Tin plated	W4 = 1/4W			& 3rd digits a								
copper steel	W2 = 1/2W		0	ures of the r ndicates the								
lead wire	1W = 1W			~ 0.1, "K" ~		er or zeros.						
	2W = 2W 3W = 3W			: 4.7Ω ~ 47		Ω ~ 472						
			• E-9	6 series:								
	Small size			o 3 rd digits a								
	S4 = 1/4W-S		0	res of the re								
	S2 = 1/2W-S			4 th digit indi zeros.	cates th	ne number						
Feature:	06 = 0.6W-S M7 = 0.75W-S			: 1.33KΩ =	1331							
0 = Standard	1S = 1W-S		L Λ.	. 1.001(22 -	1001							
F = Non-Flame	2S = 2W-S		,	Pac	cking T	vne.						
I = Non-Inductive					Tape/B							
←					Tape/R							
	Extra small size				Bulk/B							
	U2 = 1/2W-SS			P =	Tape/B	Box of PT-2	3mm					
	04 = 0.4W-SS			←		01						
	—					king Qty: 1,000 pcs.	2 - 2 000					
	Tolerance:					4,000 pcs.		•				
	B = $\pm 0.1\%$ F = \pm	. 1%				500 pcs.	B = 2,500	•				
	$C = \pm 0.25\%$ $G = \pm$				0 =	Bulk/Box						
	$D = \pm 0.5\%$ J = \pm		Additional Information:									
	P = Panasert ty											
	PPM requirer B = 15ppm C = 25ppm F = 50ppm				t: 1 = Avisert type 2 = Avisert type 2							
					3 = Avisert type 3 0 = PT-52mm, PT-26mm,							
					0 = P1- Sta							
	G = 10	0ppm					PT-58mm					
	0ppm	9 = PT-64mm 7 = Lead wire (H) 38m										
	◀		_			/ =	Lead wire	(H) 38mm				





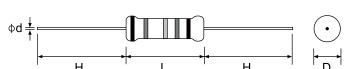
Precision Metal Film Fixed Resistors

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.	0.1.	Power		Std							
	Style	Rating at 70°C	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	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



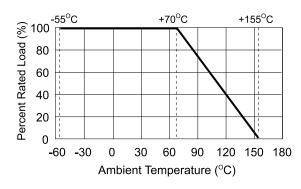


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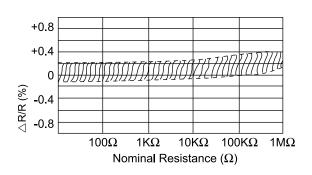
		Max	Max	Dielectric				Special Order						
Part No.	Style	Style Working Overload Withstanding Tolerance Resistan	Resistance Range	T.C.R.	Tolerance %	Resistance Range	T.C.R.							
MF0W8	MF 12	200V	400V	400V		$10\Omega \sim 1M\Omega$ $10\Omega \sim 1M\Omega$ $1\Omega \sim 1M\Omega$	± 50PPM/°C	±0.25%	51.1Ω ~ 200ΚΩ	±15PPM/°C				
MF0S4	MF 25-S	200 V	7007				±100PPM/°C	±0.5%	51.1Ω ~ 511KΩ	±25PPM/°C				
MFF04	MF 40-SS	200V	400V	200V			±200PPM/°C	±0.5%	31.122 3111022	±50PPM/°C				
MF0W4	MF 25	050)/	E00\/	500V	±1%	10Ω ~ 1ΜΩ	± 50PPM/°C	±0.1%	100Ω ~ 100ΚΩ	+15PPM/°C				
MF006	MF 60-S	250V	500V		5007	500V	3007	±2%	$10\Omega \sim 10\Omega$		±100PPM/°C	±0.25%	51.1Ω ~ 330ΚΩ	±25PPM/°C
MFFU2	MF 50-SS	250V	500V	250V	±5%	1Ω ~ 1MΩ	1Ω ~ 1MΩ	1Ω ~ 1ΜΩ	1Ω ~ 1MΩ		$1\Omega \sim 1M\Omega$	±200PPM/°C	±0.5%	10Ω ~ 1MΩ
MF0W2	MF 50				±1%	100 ~ 1MO	100 ~ 1MO	10Ω ~ 1MΩ	±50PPM/°C	±0.1%	100Ω ~ 330ΚΩ	±15PPM/°C		
MF0S2 MF0M7	MF 50-S MF 75-S	350V	700V	700V	700V	700V	700V	±2%	1022 111122 -		±100PPM/°C	±0.25%	51.1Ω ~ 511KΩ	±25PPM/°C
MF01S	MF 100-S				±5%	$1\Omega \sim 1M\Omega$ ± 200	±200PPM/°C	±0.5%	10Ω ~ 1ΜΩ	±50PPM/°C				
MF02S MF03S	MF 200-S MF 300-S				±1%	51.10 -: 1MO	51 10 ~ 1MO	51.1Ω ~ 1MΩ	$51.1\Omega \sim 1M\Omega$	±50PPM/°C	$\pm 0.1\%$ $100\Omega \sim 3\%$		+15DDM/°C	
MF01W	MF 100	500V	1,000V	1,000V	1,000V	1,000V	±2%			±100PPM/°C	±0.25%	51.1Ω ~ 511ΚΩ	±25PPM/°C	
MF02W MF03W	MF 200 MF 300				±5%	10Ω ~ 1ΜΩ	10Ω ~ 1MΩ			±200PPM/°C	$\pm 0.5\%$ 51.1Ω ~	51.1Ω ~ 1ΜΩ	±25PPM/°C ±50PPM/°C ±15PPM/°C ±25PPM/°C ±50PPM/°C ±25PPM/°C ±25PPM/°C ±15PPM/°C	

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

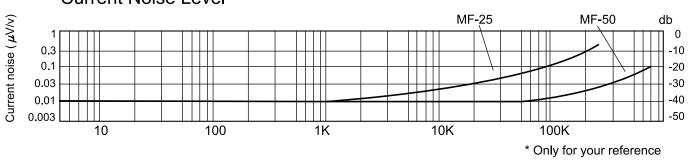
Derating Curve



Load Life



Current Noise Level





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