

### 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

Dieiectric 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

М	F	0	W	2	J	J	0	1	0	0	Α	1	0
MT = M T Co	Metal Film Metal Film in plated ooper steel ead wire		Wattag Normal W8 = 1/ W4 = 1/ W2 = 1/ 1W = 1V 2W = 2V 3W = 3V	size: 8W 4W 2W V			• E-2 1st of 2nd figu 4th i "J" Ex.	~0.1, "K" 4.7Ω ~ 4	s are sign resistanc he numbe ~ 0.01	er of zeros			
	Feature: 0 = Stand: F = Non-F I = Non-In	lame	Small size: S4 = 1/4W-S S3 = 1/3W-S 06 = 0.6W-S M7 = 0.75W-S 1S = 1W-S 2S = 2W-S 3S = 3W-S  Extra small size: U2 = 1/2W-SS 04 = 0.4W-SS  Tolerance: B = ± 0.1% F = ± 1%				<ul> <li>E-96 series: 1st to 3rd digits are significant figures of the resistance 4th digit indicates the number of zeros. Ex.: 1.33KΩ = 1331</li> <li>Packing Type: A = Tape/Box T = Tape/Reel B = Bulk/Box P = Tape/Box of PT-26mm</li> <li>Packing Qty: 1 = 1,000 pcs. 2 = 2,000 4 = 4,000 pcs. 5 = 5,000 A = 500 pcs. B = 2,500</li> </ul>						
			C = ± D = ±	0.5% P B C F	G = ±2% J = ±5% PM requir = 15ppm = 25ppm = 50ppm = 100ppm = 200ppm		0 = Bulk/Box  Additional Information: P = Panasert type 1 = Avisert type 2 = Avisert type 2 3 = Avisert type 3 0 = PT-52mm, PT-26mm, Standard lead wire for Bulk/Box 8 = PT-58mm 9 = PT-64mm 7 = Lead wire (H) 38mm						



## ROYALOHM

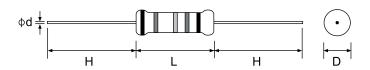
### Precision Metal Film Fixed Resistors

#### **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



5 (N	0.1	Power		Std						
Part No.	Style	Rating at 70 <sup>o</sup> 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										
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		
MF0D2	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

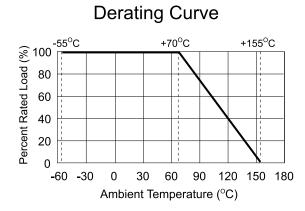




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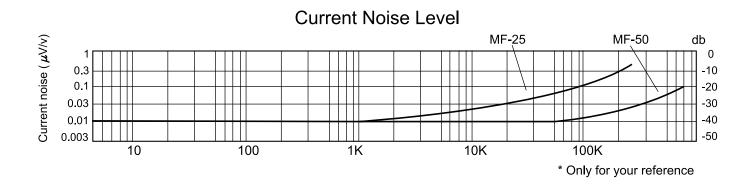
	Style	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Tolerance %	Resistance Range	T.C.R.	Special Order			
Part No.								Tolerance %	Resistance Range	T.C.R.	
MF0W8	MF 12	200V	400V	400V	±1%	10Ω~1MΩ	±50PPM/°C	±0.25%	51.1Ω~200KΩ	±15PPM/°C	
MF0S4	MF 25-S	200 V	400 V	400 V	±2%			±0.5%	51.1Ω ~ 511KΩ	±25PPM/°C ±50PPM/°C	
MFF04	MF 40-SS	200V	400V	200V	$\pm 5\%$ 1 $\Omega$ ~1M $\Omega$		±200PPM/°C	±0.570	31.12~311K22		
MF0W4	MF 25	250)/	E00\/	E00\/	±1%	10Ω~1ΜΩ	±50PPM/°C ±100PPM/°C ±200PPM/°C	±0.1%	100Ω~100ΚΩ	±15PPM/°C ±25PPM/°C ±50PPM/°C	
MF006	MF 60-S	250V	500V	500V		$10\Omega \sim 10\Omega$		±0.25%	51.1Ω~300KΩ		
MFFU2	MF 50-SS	250V	500V	250V	±5%	1Ω~1MΩ		±0.5%	10Ω~1MΩ		
MF0W2	MF 50				+1%	1 1 7 1 1 1 1 1 1	$\Omega \sim 1 M\Omega$ ± 100PPM/°C	±0.1%	100Ω~330ΚΩ	±15PPM/°C ±25PPM/°C ±50PPM/°C	
MF0S2 MF0M7	MF 50-S MF 75-S	350V	700V	700V				±0.25%	51.1Ω~511KΩ		
MF01S	MF 100-S				±5%			±0.5%	10Ω~1MΩ		
MF02S MF03S	MF 200-S MF 300-S					51.1Ω~1MΩ		±0.1%	100Ω~330ΚΩ	±15PPM/°C	
MF01W	MF 100	500V	1,000V	1,000V		51.1Ω ~1MΩ			51.1Ω~511KΩ		
MF02W MF03W	MF 200 MF 300				±5%			±0.5%	51.1Ω~1MΩ		

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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