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 eveidence 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
Туре:			Wattage	e:			Resi	stance Va	alue:				
MF = M	letal Film		Normal size				• E-2	4 series:					
MT = Metal Film		W8 = 1/8W				1 st (digit is "0"						
Ti	n plated		W4 = 1/-	4W			2 nd	& 3rd digits	are the	significant			
CC	pper steel		W2 = 1/	2W				ures of the					
lea	ad wire		1W = 1V	N						er of zeros:			
			2W = 2V	Ν				~ 0.1, "K"		(O 170			
			3W = 3V	N			Ex.	.: 4.7Ω ~ ⁴	1/J, 4./K	(12 ~ 4/2			
			Small siz	70				6 series:					
			S4 = 1/4							significant			
			S2 = 1/2					res of the		ce and he number			
			06 = 0.6				1	zeros.	ulcates t	ine mannber			
	Feature:		M7 = 0.7					: 1.33KΩ	= 1331				
0 = Standard			1S = 1W				■	1.001	1001				
	F = Non-Fl		2S = 2W					P	acking 1	Tyne:			
	I = Non-Ir		3S = 3V						= Tape/E				
	1 1101111	iddotivo	00 01	. 0					= Tape/R				
			Extra sm	all size					= Bulk/B				
			U2 = 1/2					Р	= Tape/E	Box of PT-26	3mm		
			04 = 0.4					+					
								Pad	cking Qty:				
			•		_					1,000 pcs.	2 = 2,000	pcs.	
			Tolerar	nce:						4,000 pcs.		•	
			$B = \pm 0.1\%$ $F = \pm 1\%$							500 pcs.	B = 2,500	pcs.	
			$C = \pm 0$).25%	$3 = \pm 2\%$				0 =	Bulk/Box			
			$D = \pm 0$).5% J	$1 = \pm 5\%$						Δdditio	nal Inforr	nation
			←									nasert type	nation
			PPM requirement: B = 15ppm					1 = Avisert type					
							2 = Avisert type 2						
			C = 25ppm F = 50ppm				3 = Avisert						
												52mm, PT-	26mm
				= 100ppm	1					8 = PT-5			
			J = 200ppm				9 = PT-64mm						20
							7 = Lead wire (H)						



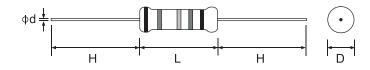
Precision Metal Film Fixed Resistors

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



Dort No.	Ct-10	Power		Std									
Part No.	Style	Rating at 70°C	D Max	L Max	d±0.05	H±3	PT	Packing Qty					
Normal Size	Normal Size												
MF0W8	MF 12	1/8W (0.125W)	1.85	3.5	0.45	28	52	5,000					
MF0W4	MF 25	1/4W (0.25W)	2.5	6.8	0.54(2)	28	52	5,000					
MF0W2	MF 50	1/2W (0.50W)	3.5	10.0	0.54	28	52	1,000					
MF01W	MF 100	1W	5.0	12.0	0.70	25	52	1,000					
MF02W	MF 200	2W	5.5	16.0	0.70	28	64	1,000					
MF03W	MF 300	3W	6.5	17.5	0.75	28	64	500					
Small Size	Small Size												
MF0S4	MF 25 - S	1/4W (0.25W)	1.85	3.5	0.45	28	52	5,000					
MFF04	MF 40 - SS	0.4W	1.9	3.7	0.45	28	52	5,000					
MFFU2	MF 50 - SS	1/2W (0.50W)	2.5	6.8	0.54(2)	28	52	5,000					
MF0S2	MF 50 - S	1/2W (0.50W)	3.0	9.0	0.54	28	52	2,000					
MF006	MF 60-S	0.6W	2.5	6.8	0.54(2)	28	52	5,000					
MF0M7	MF 75 - S	0.75W	3.5	10.0	0.54	28	52	5,000					
MF01S	MF 100-S	1W	3.5	10.0	0.54	28	52	1,000					
MF02S	MF 200-S	2W	5.0	12.0	0.70	25	52	1,000					
MF03S	MF 300-S	3W	5.5	16.0	0.70	28	64	1,000					

Note:

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

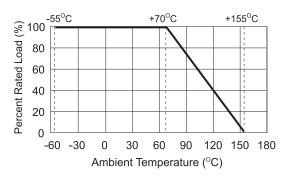


Precision Metal Film Fixed Resistors

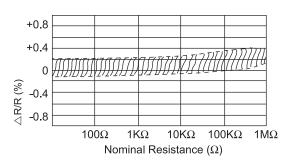
General Specification

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%	10Ω ~ 1MΩ	± 50PPM/°C	±0.25%	51.1Ω ~ 200ΚΩ	±15PPM/°C ±25PPM/°C	
MF0S4	MF 25-S	2001	4001	400 V	±2%	10Ω ~ 1ΜΩ	±100PPM/°C	±0.5%	51.1Ω ~ 511ΚΩ		
MFF04	MF 40-SS	200V	400V	200V	±5%	1Ω ~ 1MΩ	±200PPM/°C	±0.576	31.122 3111(22	±50PPM/°C	
MF0W4	MF 25	2501/	E00\/	500\/	±1%	10Ω ~ 1ΜΩ	± 50PPM/°C	±0.1%	100Ω ~ 100ΚΩ	±15PPM/°C	
MF006	MF 60-S	250V	500V	500V			±100PPM/°C	±0.25%	51.1Ω ~ 330ΚΩ	±25PPM/°C	
MFFU2	MF 50-SS	250V	500V	250V	±5%	1Ω ~ 1ΜΩ	±200PPM/°C	±0.5%	10Ω ~ 1ΜΩ	±50PPM/°C	
MF0W2	MF 50	WF 50-S 350V 700V 700V $\pm 1\%$ 1002 \sim	100 ~ 1MO	10Ω ~ 1MΩ ±50PPM/°C	±0.1%	100Ω ~ 330ΚΩ	±15PPM/°C				
MF0S2 MF0M7	MF 50-S MF 75-S		700V	700V	$200V$ $\pm 2\%$ $10\Omega \sim 1M\Omega$ ± 1	$10\Omega \sim 1 M\Omega$	±100PPM/°C	±0.25%	51.1Ω ~ 511ΚΩ	±25PPM/°C	
MF01S	MF 100-S					±200PPM/°C	±0.5%	10Ω ~ 1ΜΩ	±50PPM/°C		
MF02S MF03S	MF 200-S MF 300-S				±1%	51.1Ω ~ 1MΩ	±50PPM/°C	±0.1%	100Ω ~ 330ΚΩ	±15PPM/°C ±25PPM/°C	
MF01W	MF 100	500V	1,000V	1,000V	±2%	51.1Ω ~ 1MΩ	±100PPM/°C	±0.25%	51.1Ω ~ 511ΚΩ		
MF02W MF03W	MF 200 MF 300				±5%		10Ω ~ 1MΩ	±200PPM/°C	±0.5%	51.1Ω ~ 1ΜΩ	±50PPM/°C

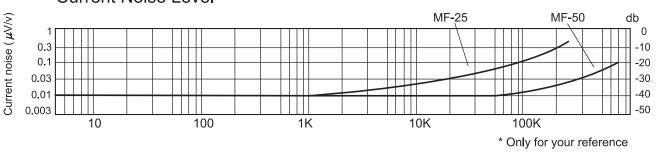
Derating Curve



Load Life



Current Noise Level





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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