Precision Metal Film Resistors





multicomp

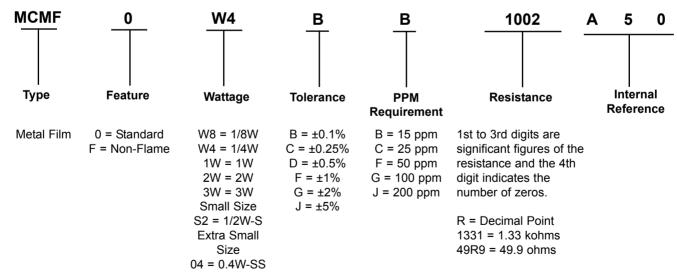
Features:

- EIA standard colour coding
- · Low noise and voltage coefficient
- Low temperature coefficient range
- Wide precision range in small package
- Too low or too high ohmic value can be supplied on 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

Performance Specifications

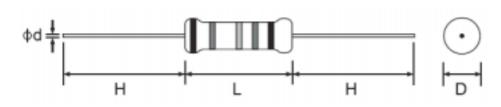
Temperature Coefficient : Within the maximum temperature coefficient specified Short Time Overload : \pm (0.5% + 0.05 Ω) Maximum, with no evidence of mechanical damage Insulation Resistance : Minimum 10,000 Mega Ohms **Dielectric Withstanding Voltage** : No evidence of flashover, mechanical damage, arcing or insulation breakdown Pulse Overload : \pm (1.0% + 0.05 Ω) Maximum, with no evidence of mechanical damage **Terminal Strength** : No evidence of mechanical damage Resistance to Soldering Heat : \pm (1.0% + 0.05 Ω) Maximum, with no evidence of mechanical damage Solderability : Minimum 95% coverage Resistance to Solvent : No deterioration of protective coating and markings Temperature Cycling : \pm (1% + 0.05 Ω) Maximum, with no evidence of mechanical damage : \pm (2% + 0.05 Ω) Maximum, with no evidence of mechanical damage Humidity (Steady state) Load Life in Humidity : Normal type ± (1.5% + 0.05 Ω) Maximum Load Life : Normal type \pm (1.5% + 0.05 Ω) Maximum

Part Number Explanation:





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Part Number	Style	Power Rating at 70°C		Standard				
			D Maximum	L Maximum	d ±0.05	H ±3	РТ	Packing Quantity
	Normal Size							
MF0W8	MF 12	1/8 W (0.125 W)	1.85	6.8	0.45	28	52	5,000
MF0W4	MF 25	1/4 W (0.25 W)	2.5	3.5	0.54	28	52	5,000
MF0W2	MF 50	1/2 W (0.5 W)	3.6	10	0.54	28	52	1,000
MF01W	MF 100	1 W	5	12	0.7	25	52	1,000
MF02W	MF 200	2 W	5.5	16	0.7	28	64	1,000
MF034	MF 300	3 W	6.5	17.5	0.75	28	64	500
	Small Size							
MF0S4	MF 25-S	1/4 W (0.25 W)	1.85	3.5	0.45	28	52	5,000
MFF04	MF 40-SS	0.4 W	1.9	3.7	0.45	28	52	5,000
MFFU2	MF 50-SS	1/2 W (0.5 W)	2.5	6.8	0.54 (2)	28	52	5,000
MF0S2	MF50-S	1/2 W (0.5W)	3	9	0.54	28	52	2,000
MF006	MF 60-S	0.6 W	2.5	6.8	0.54 (2)	28	52	5,000
MF0M7	MF 75-S	0.75 W	3.5	10	0.54	28	52	5,000
MF01S	MF 100-S	1 W	3.5	10	0.54	28	52	1,000
MF02S	MF 200-S	2 W	5	12	0.7	28	52	1,000
MF03S	MF 300-S	3 W	5.5	16	0.7	28	64	1,000

Notes:

• Extra small size types (-SS) are Non flame coating (Dark Green Colour)

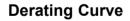
• ⁽²⁾ Lead diameter of MF0W4, MF006 & MFFU2 can be provided in 0.5, 0.54 and 0.6 mm

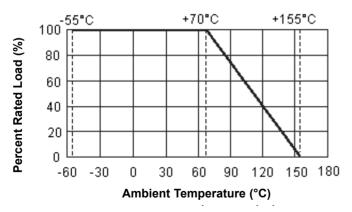


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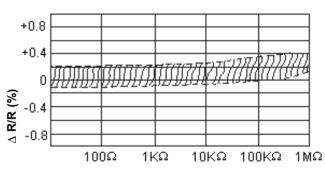
General Specifications

Part		Maximum	Maximum	Dielectric	Tolerance	ce Resistance Range		Special Order		
Number	Style	Working Voltage	Overload Voltage	Withstanding Voltage			TCR	Tolerance	Resistance Range	TCR
MF12	MF12	202.1/	400.1/	400.14	±1%	10 Ω to 1 M Ω	±50 PPM/°C	±0.25%	51.1 Ω to 200 KΩ	±15 PPM/°C
MF0S4	MF 25-S	200 V	400 V	400 V	±2%	10 Ω to 1 M Ω	±100 PPM/°C	.0.5%	51.1 Ω to 511 KΩ	±25 PPM/°C
MFF04	MF 40-SS	200 V	400 V	200 V	±5%	1 Ω to 1 M Ω	±200 PPM/°C	±0.5%		±50 PPM/°C
MF0W4	MF 25	050.14	500.14	500.14	±1%	10 Ω to 1 M Ω	±50 PPM/°C	±0.1%	100 Ω to 100 KΩ	±15 PPM/°C
MF006	MF 60-S	250 V	500 V	500 V	±2%	10 Ω to 1 M Ω	±100 PPM/°C	±0.25%	51.1 Ω to 330 KΩ	±25 PPM/°C
MFFU2	MF 50-SS	250 V	500 V	250 V	±5%	1 Ω to 1 M Ω	±200 PPM/°C	±0.5%	10 Ω to 1 M Ω	±50 PPM/°C
MF0W2	MF 50		√ 700 V	700 V	±1% ±2% ±5%		±50 PPM/°C ±100 PPM/°C ±200 PPM/°C	±0.1% ±0.25% ±0.5%	100 Ω to 300 KΩ 51.1 Ω to 511 KΩ 10 Ω to 1 M	
MF0S2	MF 50-S	350 V								
MF0m7	MF 75-S	350 V								
MF01S	MF 100-S								Ω	PPM/°C
MF02S	MF 200-S								100 Ω to	
MF03S	MF 300-S			1,000 V	±1% ±2% ±5%		±50 PPM/°C ±100 PPM/°C ±200 PPM/°C	±0.1% ±0.25% ±0.5%	300 ΚΩ 51.1 Ω to 511 ΚΩ 51.1 Ω to 1 ΜΩ	±15 PPM/°C ±25 PPM/°C ±50 PPM/°C
MF01W	01W MF 100		1,000 V							
MF02W										
MF03W	MF 300									





Load Life



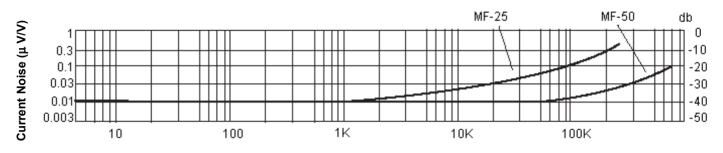
Nominal Resistance (Ω)



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Current Noise Level



Part Number Table

Description	Part Number			
Precision Metal Film Resistor	MCMF0W4BB1002A50			

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