Precision Metal Film Resistor 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 : $\pm (0.5\% + 0.05\Omega)$ Maximum, with no evidence of mechanical damage

Insulation Resistance : Minimum 10,000 $M\Omega$

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

Pulse Overload : $\pm (1\% + 0.05\Omega)$ Maximum, with no evidence of mechanical damage

Terminal Strength : No evidence of mechanical damage

Resistance to Soldering Heat $\pm (1\% + 0.05\Omega)$ Maximum, with no evidence of mechanical damage

Solderability : Minimum 95% coverage

Resistance to Solvent : No deterioration of protective coating and markings

Temperature Cycling : $\pm (1\% + 0.05\Omega)$ Maximum, with no evidence of mechanical damage Humidity (Steady state) : $\pm (2\% + 0.05\Omega)$ Maximum, with no evidence of mechanical damage

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

General Specifications

Part Number	Style	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Tolerance	Resistance Range	TCR
MCMF12	MF12	200V	400V	400V	±1%	10Ω to 1MΩ	±50 PPM/°C
MCMF0S4	MF25-S	200 V	4000		±2%	10Ω to 1MΩ	±100 PPM/°C
MCMFF04	MF40-SS	200V	400V	200V	±5%	1Ω to 1MΩ	±200 PPM/°C
MCMF0W4	MF25	250V	500V	500V	±1%	10Ω to 1MΩ	±50 PPM/°C
MCMF0W2	MF50	350V	700V	700V	-	-	-
MCMF0S2	MF50-S	3507			-	-	-
MCMF01W	MF100		1,000V	1,000V	±5%	51.1Ω to 1MΩ	±50 PPM/°C
MCMF02W	MF200	500V				51.1Ω to1MΩ	±100 PPM/°C
MCMF03W	MF300					10Ω to 1MΩ	±200 PPM/°C

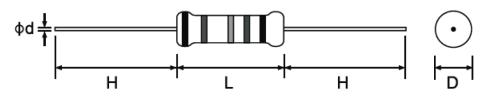
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	Special Order					
Part Number	Tolerance	Resistance Range	TCR			
MCMF12	±0.25%	51.1Ω to 200kΩ	±15 PPM/°C			
MCMF0S4	±0.5%	51.1Ω to 511kΩ	±25 PPM/°C			
MCMFF04	±0.5%	51.122 to 511k22	±50 PPM/°C			
MCMF0W4	±0.1%	100Ω to 100kΩ	±15 PPM/°C			
MCMF0W2		100Ω to 300kΩ	±15 PPM/°C			
MCMF0S2	±0.1%	51.1Ω to $511k\Omega$ 10Ω to $1M\Omega$	±25 PPM/°C ±50 PPM/°C			
MCMF01W	-	-	-			
MCMF02W	-	-	-			
MCMF03W	MCMF03W -		-			

Diagram



		Power Rating	Dimension (mm)					Standard
Part Number	Style	at 70°C	D Max.	L Max.	d ±0.05	H ±3	PT	Packing Quantity
Normal Size								
MCMF0W8	MF 12	1/8W (0.125W)	1.85	3.5	0.45	28	52	5,000
MCMF0W4	MF 25	1/4W (0.25W)	2.5	6.8	0.54	28	52	5,000
MCMF0W2	MF 50	1/2W (0.5W)	3.6	10	0.54	28	52	1,000
MCMF01W	MF 100	1W	5	12	0.7	25	52	1,000
MCMF02W	MF 200	2W	5.5	16	0.7	28	64	1,000
MCMF034	MF 300	3W	6.5	17.5	0.75	28	64	500
Small Size								
MCMF0S4	MF 25-S	1/4W (0.25W)	1.85	3.5	0.45	28	52	5,000
MCMFF04	MF 40-SS	0.4W	1.9	3.7	0.45	28	52	5,000
MCMF0S2	MF50-S	1/2W (0.5W)	3	9	0.54	28	52	2,000
MCMF0M7	MF 75-S	0.75W	3.5	10	0.54	28	52	5,000
MCMF01S	MF 100-S	1W	3.5	10	0.54	28	52	1,000
MCMF02S	MF 200-S	2W	5	12	0.7	28	52	1,000
MCMF03S	MF 300-S	3W	5.5	16	0.7	28	64	1,000

Note: Dimensions : Millimetres

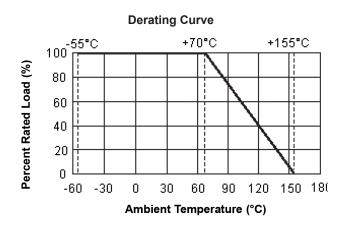
Extra small size types (-SS) are Non flame coating (Dark Green Colour)

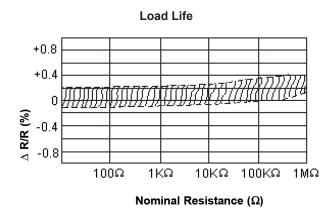
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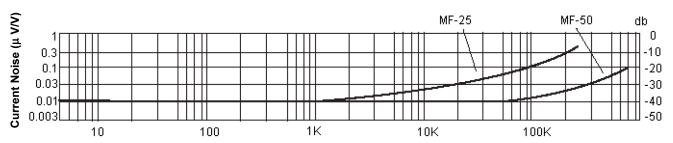
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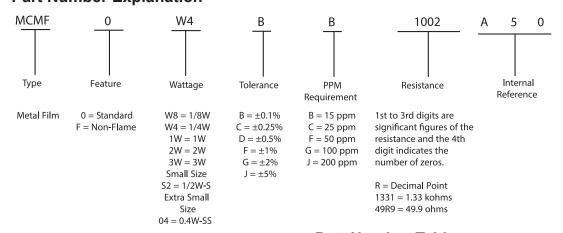




Current Noise Level



Part Number Explanation



Part Number Table

Description	Part Number		
Precision Metal Film Resistor	MCMF0W4BB1002A50		

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