Precision Metal Film Resistor multicomp



Features:

RoHS **Compliant**

- 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 $10,000M\Omega$

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

: $\pm (1.0\% + 0.05\Omega)$ Maximum, with no evidence of mechanical damage Pulse Overload

Terminal Strength : No evidence of mechanical damage

Resistance to Soldering Heat : $\pm(1.0\% + 0.05\Omega)$ Maximum, with no evidence of mechanical damage

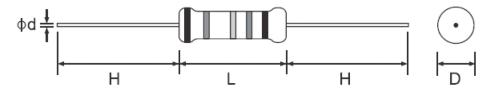
Solderability : Minimum 95% coverage

Resistance to Solvent : No deterioration of protective coating and markings

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

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

Dimensions



Part Number	Style	Power Rating at 70°C	Dimension (mm)					Standard
			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

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Part Number	Style	Power Rating at 70°C	Dimension (mm)					Standard
			D Max.	L Max.	d ±0.05	H ±3	PT	Packing Quantity
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:

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

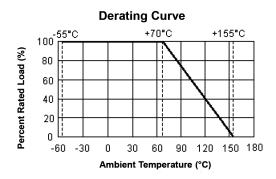
General Specifications

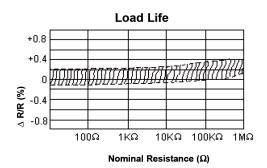
Part Number	Style	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Tolerance
MCMF12	MF 12	2001/	4001/	400)/	±1%
MCMF0S4	MF 25-S	200V	400V	400V	±2%
MCMFF04	MF 40-SS	200V	400V	200V	±5%
MCMF0W4	MF25	250V	500V	500V	±1%
MCMF0W2	MF50	250)/	700V	700V	
MCMF0S2	MF50-S	350V	7000	7000	-
MCMF01W	MF100				
MCMF02W	MF200	500V	1,000V	1,000V	±5%
MCMF03W	MF300				

Part Number	Resistance	TCR	Special Order			
Part Number	Range	ICK	Tolerance	Resistance Range	TCR	
MCMF12	10Ω to 1MΩ	±50 PPM/°C	±0.25%	51.1Ω to 200kΩ	±15 PPM/°C	
MCMF0S4	10Ω to 1MΩ	±100 PPM/°C	±0.5%	51.1Ω to 511kΩ	±25 PPM/°C	
MCMFF04	1Ω to 1MΩ	±200 PPM/°C	±0.5%	51.122 (0 511822	±50 PPM/°C	
MCMF0W4	10Ω to 1MΩ	±50 PPM/°C	±0.1%	100Ω to 100kΩ	±15 PPM/°C	
MCMF0W2				100Ω to 300kΩ	±15 PPM/°C	
MCMF0S2	-	-	±0.1%	51.1Ω to 511kΩ 10Ω to 1MΩ	±25 PPM/°C ±50 PPM/°C	
MCMF01W	51.1Ω to 1MΩ	±50 PPM/°C				
MCMF02W	51.1Ω to 1MΩ	±100 PPM/°C ±200 PPM/°C	-	-	-	
MCMF03W	10Ω to 1MΩ					

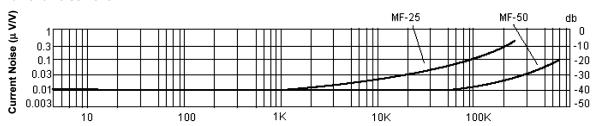


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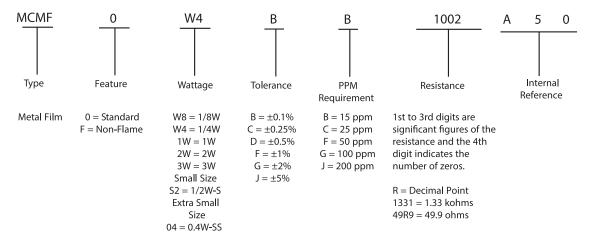




Current Noise Level



Part Number Explanation



Part Number Table

Description	Part Number		
Precision Metal Film Resistor	MCMF0W4BB1002A50		

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