Precision Metal Film Resistor multicomp

RoHS

Compliant



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 10,000MΩ
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 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

Diagram



Part Style Number	Ctude	Power Rating	Dimension (mm)					Standard
	at 70°C	D Max.	L Max.	d ±0.05	H ±3	РТ	Packing Quantity	
Normal Size								
MCMF0W8	MF 12	1/8W (0.125W)	1.85	6.8	0.45	28	52	5,000
MCMF0W4	MF 25	1/4W (0.25W)	2.5	3.5	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

Dimensions : Millimetres

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Part Number Style	Stude	Power Rating	Dimension (mm)					Standard
	at 70°C	D Max.	L Max.	d ±0.05	H ±3	РТ	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	1/2 W (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

Notes:

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

Dimensions : Millimetres

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 $1M\Omega$	±50 PPM/°C
MCMF0S4	MF25-S	2007	4007	400 V	±2%	10Ω to $1M\Omega$	±100 PPM/°C
MCMFF04	MF40-SS	200V	400V	200V	±5%	1Ω to $1M\Omega$	±200 PPM/°C
MCMF0W4	MF25	250V	500V	500V	±1%	10Ω to $1M\Omega$	±50 PPM/°C
MCMF0W2	MF50	350V	7001/	700V	-	-	-
MCMF0S2	MF50-S	350V	700V	7000	-	-	-
MCMF01W	MF100					51.1Ω to 1MΩ	±50 PPM/°C
MCMF02W	MF200	500 V	1,000V	1,000V	±5%	51.1Ω to 1MΩ	±100 PPM/°C
MC MF03W	MF300					10Ω to 1MΩ	±200 PPM/°C

		Special Order					
Part Number	Style	Tolerance	Resistance Range	TCR			
MCMF12	MF12	±0.25%	51.1 Ω to 200k Ω	±15 PPM/°C			
MCMF0S4	MF25-S	±0.5%	51.1Ω to 511kΩ	±25 PPM/°C			
MCMFF04	MF40-SS	±0.5%	51.122 10 511K12	±50 PPM/°C			
MCMF0W4	MF25	±0.1%	100Ω to $100k\Omega$	±15 PPM/°C			
MCMF0W2	MF50		100Ω to 300kΩ	±15 PPM/°C			
MCMF0S2	MF50-S	±0.1%	51.1Ω to 511kΩ 10Ω to 1MΩ	±25 PPM/°C ±50 PPM/°C			
MCMF01W	MF100	-	-	-			
MCMF02W	MF200	-	-	-			
MC MF03W	MF300	-	-	-			

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Current Noise Level



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