MC4 Series

High Voltage 4-Resistor SMD DIP Package

Ohmite's MC4 Series offers 4 high voltage SMD resistors in a single DIP package, supplied on tape and reel for automated placement. Each resistor provides a rating of 0.75W with a maximum voltage of 2500 VDC. Designers can specify up to 4 different resistor value/ tolerance combinations and connect then individually, in series, or parallel to derive countless results. The flexible S-Bend terminals provide solder joint integrity while leaving space between the resistor pack and the PCB. Standard parts are available in single resistance values for immediate delivery.

FEATURES

- Unique terminals allow spacing between board and resistor
- Design allows multiple configurations
- 2,500 volts max. per resistor per pack; 10KV total
- Supplied on tape & reel for automated placement



SERIES SPECIFICATIONS							
	Resistance	Power @25°C	Max. Operating	Standard Temperature Coefficient			
Series	Range (Ohms)	per resistor	Voltage	50PPM/°C	100PPM/°C		
MC4	200 Ω to 5,000M	0.75W	2,500	200Ω-250M	251M-5,000M		

CHAR	ACTERISTICS	PERFORMANCE DATA		
Resistor	Thick film on Alumina	Characteristic	Test Method	Specification
Resistance Range	200 ohms to 5,000M	Humidity	MIL-STD-202, Method 103B, Condition B	±0.25%
Power Rating	0.75W per resistor, 3.0W total	Dielectric Withstanding		±0.25%
Voltage Rating	2500 VDC per resistor	Voltage	MIL-STD-202, Method 301, 750V	±0.23%
Tolerance	5% to 20%	Insulation Resistance	MIL-STD-202, Method 302,	>10,000M or
Operating	-55°C to +180°C		Condition A or B	greater dry
Temperature		Thermal Shock	MIL-STD-202, Method 107G,	±0.20%
TCR and VCR	see Slim Mox		Condition B, B-1, or F	
Solder	r Silver solder is recommended for MC4 resistors. Leaching of the silver in the termination will occur if non-silver solder is used. 60/40 tin- lead solders are not recommended for use with the MC4 product.	Load Life	MIL-STD-202, Method 108A, Condition D	±1.0%
		Resistance to Solvents	MIL-STD-202, Method 215G	No degrada- tion of coating or marking
		Shock (Specified Pulse)	MIL-STD-202, Method 213B, Condition I	±0.25%
		Vibration, High Frequency	MIL-STD-202, Method 204D, Condition D	±.020%
		Power Conditioning	MIL-R-49462A, Par 4.8	±0.50%

POSSIBLE CONFIGURATIONS



2500 VDC each

4 individual 0.75W each



4 in series 3W 10,000 VDC 3 in parallel 2500 VDC

5000 VDC

2500 VDC

3 in series 2.25W 7500 VDC 2 in parallel 1 individual 0.75W 2500 VDC

2 pairs in series 1.5W each 5000 VDC each

4 in parallel 3W 2500 VDC

OHMIT

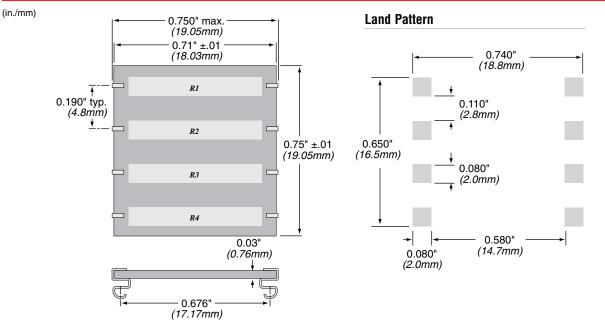
1 individual

0 75\ 2500 VDC

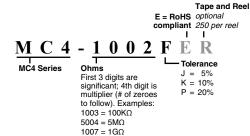
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DIMENSIONS



ORDERING INFORMATION



el Standard Part Numbers

Part	Description
MC4-1003JER	100K ohms per resistor, 5%
MC4-5003JER	500K ohms per resistor, 5%
MC4-1004JER	1M ohms per resistor, 5%
MC4-5004JER	5M ohms per resistor, 5%
MC4-1005JER	10M ohms per resistor, 5%
MC4-5005JER	50M ohms per resistor, 5%
MC4-1006JER	100M ohms per resistor, 5%
MC4-5006JER	500M ohms per resistor, 5%
MC4-1007KER	1G ohms per resistor, 10%
MC4-5007KER	5G ohms per resistor, 10%

*Custom part numbers are assigned sequentially. MC4-SP0001, MC4-SP0002, etc. Go to this link to design your own MC4 resistor and have a unique part number assigned. www. ohmite.com/mc4sp/

Design online at: www.ohmite.com/mc4sp/

Tape and Reel Orientation

