

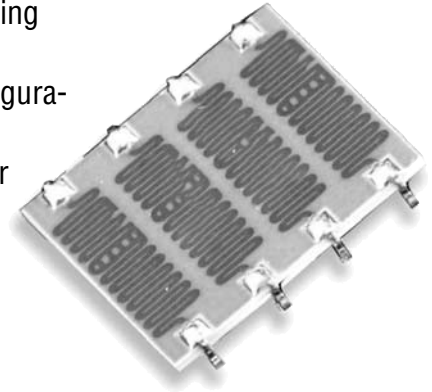
MC4 Series

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 them 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

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

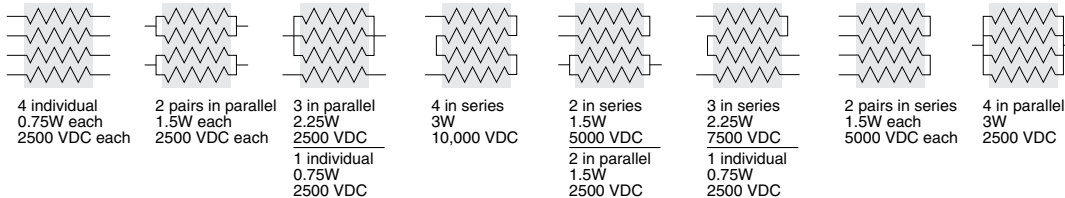
CHARACTERISTICS

| | |
|------------------------------|---|
| Resistor | Thick film on Alumina |
| Resistance Range | 200 ohms to 5,000M |
| Power Rating | 0.75W per resistor, 3.0W total |
| Voltage Rating | 2500 VDC per resistor |
| Tolerance | 5% to 20% |
| Operating Temperature | -55°C to +180°C |
| TCR and VCR | see Slim Mox |
| Solder | 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. |

PERFORMANCE DATA

| Characteristic | Test Method | Specification |
|--|--|--------------------------------------|
| Humidity | MIL-STD-202, Method 103B, Condition B | ±0.25% |
| Dielectric Withstanding Voltage | MIL-STD-202, Method 301, 750V | ±0.25% |
| Insulation Resistance | MIL-STD-202, Method 302, Condition A or B | >10,000M or greater dry |
| Thermal Shock | MIL-STD-202, Method 107G, Condition B, B-1, or F | ±0.20% |
| Load Life | MIL-STD-202, Method 108A, Condition D | ±1.0% |
| Resistance to Solvents | MIL-STD-202, Method 215G | No degradation 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 | ±0.20% |
| Power Conditioning | MIL-R-49462A, Par 4.8 | ±0.50% |

POSSIBLE CONFIGURATIONS

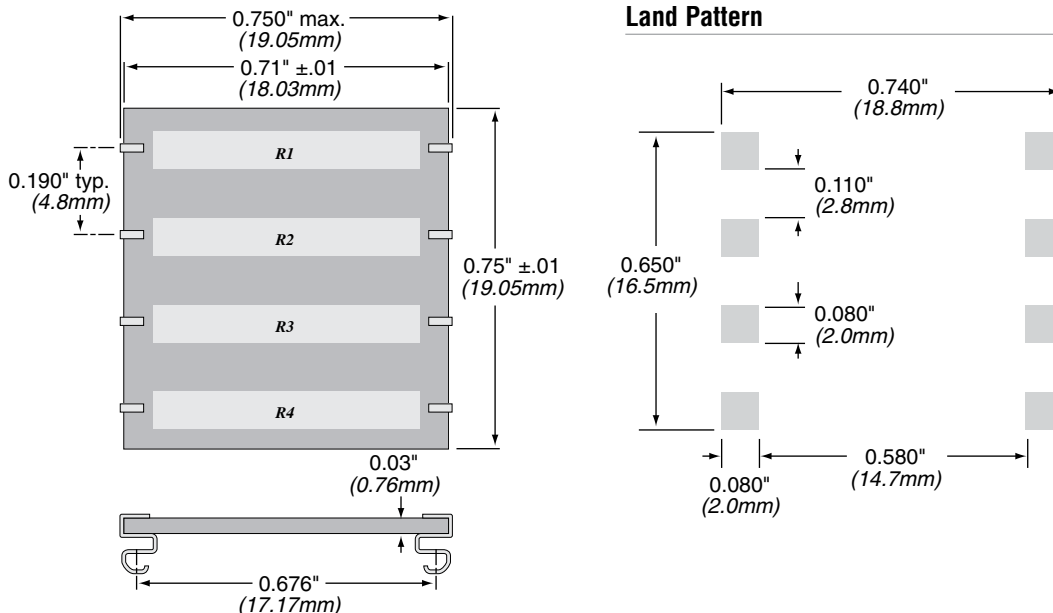


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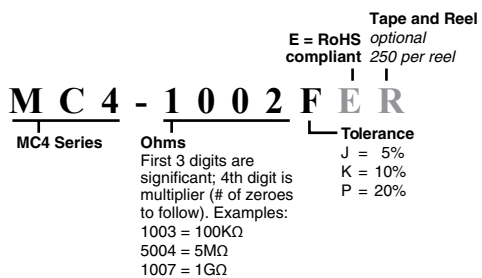
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DIMENSIONS

(in./mm)



ORDERING INFORMATION

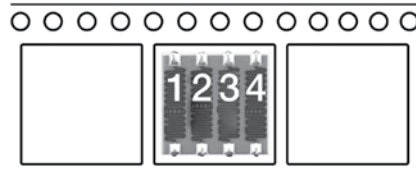


Standard Part Numbers

| 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/

Tape and Reel Orientation



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

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[M8340108K4992FGD03](#) [M8340109K2002GCD03](#) [M8340109K2202GCD03](#) [RKC8BD104J](#) [RM3216B-103103-PBXW10](#) [TDP16031001BUF](#)