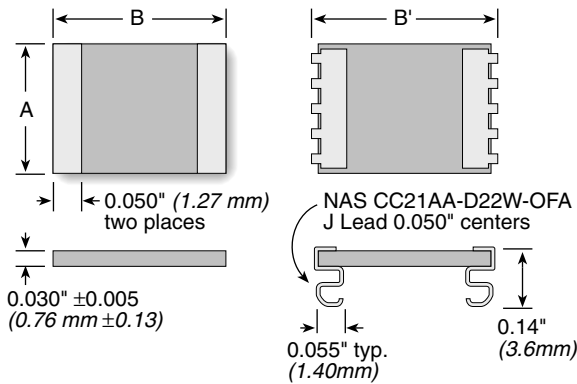


Macrochip Resistors

Surface Mount
Precision Thick Film
High Voltage/High Resistance



With J-bend Option:



Ohmite's MacroChip resistors bring precision high voltage capabilities to the surface mount level. Designed with thick film on alumina substrate technology, the resistors can be provided in precision tolerances, high voltage ratings, and high resistance values. The planar package design is low profile for easy use with instrumentation, medical equipment, voltage regulators, and power supplies.

APPLICATIONS

- Medical instrumentation
- Power Supplies
- Avionics
- Light Magnification Systems

SPECIFICATIONS

Material

Resistor: Thick film on Alumina

Electrical

Resistance Range: 100 Ohms to 5,000M

Power Rating: 0.5W to 3,25W

Voltage Rating: 2.0KV to 10.0KV

Tolerance: 0.5% to 20%

Operating Temperature: -55°C to +180°C

Note: Silver solder is recommended for Macrochip 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 Macrochip product.

FEATURES

- Non-inductive design
- Low voltage coefficient
- Surface mount
- Pd Ag terminations
- J-bend terminals for applications involving shock and vibration

Ohmite Series	Resistance Range (Ohms)	Power @25°C	Voltage Rating	Dimensions (in./mm)			Standard Temperature Coefficient	
				A ±.01"	B ±.01"	B' max. (J-bend)	50PPM/°C	100PPM/°C
MC101	100 ohms to 1,000M	0.75W	2.0KV	0.25" (6.35)	0.25" (6.35)	0.29" (7.37)	100 ohms-100 Meg	101 Meg-1,000 Meg
MC102	200 ohms to 5,000M	1.50W	5.0KV	0.25" (6.35)	0.50" (12.70)	0.54" (13.72)	200 ohms-250 Meg	251 Meg-5,000 Meg
MC103	250 ohms to 5,000M	2.00W	7.5KV	0.25" (6.35)	0.75" (19.05)	0.79" (20.07)	250 ohms-100 Meg	101 Meg-5,000 Meg
MC104	1K to 5,000M	2.50W	10.0KV	0.25" (6.35)	1.00" (25.40)	1.04" (26.42)	500 ohms-450 Meg	451 Meg-5,000 Meg
MC202	500 to 5,000M	2.50W	5.0KV	0.50" (12.70)	0.50" (12.70)		500 ohms-200 Meg	201 Meg-5,000 Meg
MC204	1K to 5,000M	3.25W	10.0KV	0.50" (12.70)	1.00" (25.40)		1K-375 Meg	376 Meg-5,000 Meg

Call factory for custom configurations.

ORDERING INFORMATION

Coating: 2 = Blue silicone | E = RoHS compliant Available Jan. 2006

MC102821006FE

Macro Chip Series: M, C
 Style: 101, 102, 104, 202, 204
 Lead: 8 = No lead, 5 = J-bend (use for MC103 and larger), 4 = Edge wrap
 Ohms: First 3 digits are significant; 4th digit is multiplier (# of zeroes to follow). Examples: 10R2 = 10.2 ohms, 1000 = 100 ohms, 1503 = 150,000 ohms
 Tolerance: D = 0.5%, F = 1%, G = 2%, J = 5%, K = 10%, M = 15%, P = 20%

STANDARD PART NUMBERS

Series	MC10282	Series	MC10282	Series	MC10282
Tolerance	1%	Tolerance	1%	Tolerance	1%
Watts	1W	Watts	1W	Watts	1W
Ohms		Ohms		Ohms	
1K	MC102821001J	50K	MC102825002J	1.25M	MC102821254J
2.5K	MC102822501J	75K	MC102827502J	1.5M	MC102821504J
5K	MC102825001J	100K	MC102821003J	1.75M	MC102821754J
7.5K	MC102827501J	125K	MC102821253J	2M	MC102822004J
10K	MC102821002J	150K	MC102821503J	2.5M	MC102822504J
12.5K	MC102821252J	200K	MC102822003J	5M	MC102825004J
15K	MC102821502J	250K	MC102822503J	10M	MC102821005J
17.5K	MC102821752J	500K	MC102825003J	25M	MC102822505J
20K	MC102822002J	750K	MC102827503J	50M	MC102825005J
25K	MC102822502J	1M	MC102821004J		