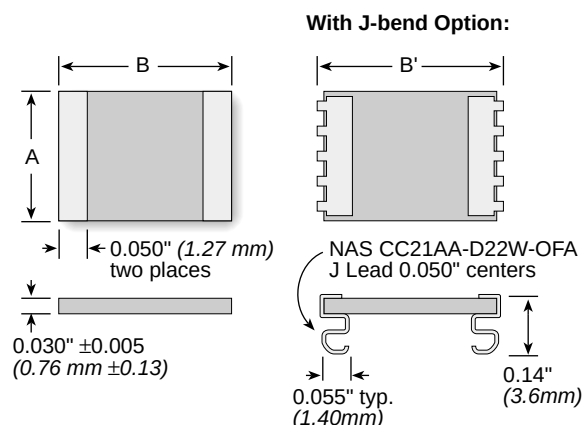


Macrochip Resistors

Surface Mount Precision Thick Film High Voltage/High Resistance



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.

FEATURES

- Non-inductive design
- Low voltage coefficient
- Surface mount
- Pd Ag terminations

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 2.0W

Voltage Rating: 2.0KV to 10.0KV

Tolerance: 0.5% to 20%

Operating Temperature:

-55°C to +180°C

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	0.5W	2.0KV	0.25" (6.35)	0.25" (6.35)	0.29" (7.37)	100 ohms-100 Meg	101 Meg-1,000 Meg
MC101	100 ohms to 1,000M	0.5W	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	1.0W	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	1.25W	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	1.5W	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	1.5W	5.0KV	0.50" (12.70)	0.50" (12.70)		500 ohms-200 Meg	201 Meg-5,000 Meg
MC204	1K to 5,000M	2.0W	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			
MC	102821006F		
Macro Chip Series	Style	Lead	Ohms
101	8 = No lead		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
102	5 = J-bend		
104	4 = Edge wrap		
202			
204			
			Tolerance
			D = 0.5%
			F = 1%
			G = 2%
			J = 5%
			K = 10%
			M = 15%
			P = 20%

STANDARD PART NUMBERS

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