

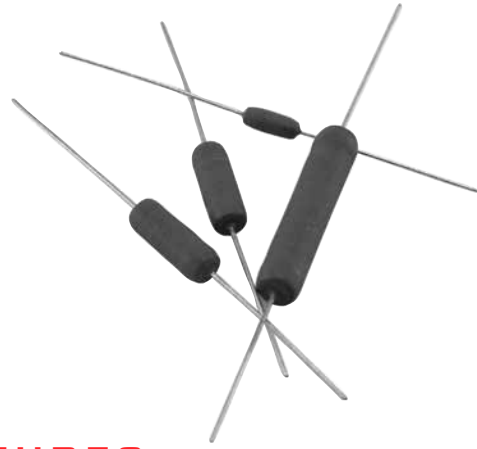


THE DATASHEET OF
42J220E



40 Series

Ohmicone® Silicone-Ceramic Conformal Axial Terminal Wirewound 1% and 5% Tolerance Standard



Ohmite 40 Series resistors are the most economical conformal silicone-ceramic coated resistors offered. These all-welded units are characterized by their low temperature coefficients and resistance to thermal shock, making them ideal for a wide range of electrical and electronic applications.

Units with 1% and 5% tolerances are identical in construction and electrical specifications. Durable but economical 40 Series resistors exceed industry requirements for quality.

FEATURES

- Economical
- Applications include commercial, industrial and communications equipment
- Stability under high temperature conditions
- All-welded construction
- RoHS compliant; add "E" suffix to part number to specify.

SERIES SPECIFICATIONS

| Series | Wattage | Ohms | Voltage |
|--------|---------|-----------|---------|
| 41 | 1.0 | 0.10-6K | 150 |
| 42 | 2.0 | 0.10-8K | 100 |
| 43 | 3.0 | 0.10-20K | 200 |
| 45 | 5.0 | 0.10-70K | 460 |
| 47 | 7.0 | 0.10-80K | 670 |
| 40 | 10.0 | 0.10-150K | 1000 |

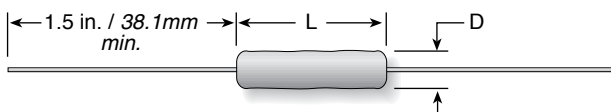
Non-Inductive versions available. Insert "N" before tolerance code.
Example: 42NJ27R

CHARACTERISTICS

| | |
|--------------------------------|---|
| Coating | Conformal silicone-ceramic. |
| Core | Ceramic. |
| Terminals | Solder-coated copper clad axial. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu |
| Derating | Linearly from 100% @ +25°C to 0% @ +275°C. |
| Tolerance | ±5% (J type), ±1% (F type) (other tolerances available). |
| Power rating | Based on 25°C free air rating |
| Overload | Under 5 watts: 5 times rated wattage for 5 seconds. 5 watts and over: 10 times rated wattage for 5 seconds. |
| Temperature coefficient | Under 1Ω: ±90 ppm/°C; 1Ω to 9.99Ω: ±50 ppm/°C; 10Ω and over: ±20 ppm/°C |
| Operating temp. range | -55°C to 275°C |

DIMENSIONS

(in./mm max.)



| Series | Wattage | Length | Diam.* | Lead ga. |
|--------|---------|--------------|--------------|----------|
| 41 | 1.0 | 0.437 / 11.1 | 0.125 / 3.2 | 24 |
| 42 | 2.0 | 0.406 / 10.3 | 0.219 / 5.6 | 20 |
| 43 | 3.0 | 0.593 / 15.1 | 0.219 / 5.6 | 20 |
| 45 | 5.0 | 0.937 / 23.8 | 0.343 / 8.7 | 18 |
| 47 | 7.0 | 1.280 / 32.5 | 0.343 / 8.7 | 18 |
| 40 | 10.0 | 1.900 / 48.3 | 0.406 / 10.3 | 18 |

*For Non-inductive versions, the diameter shown in the table may be different.

(continued)

40 Series

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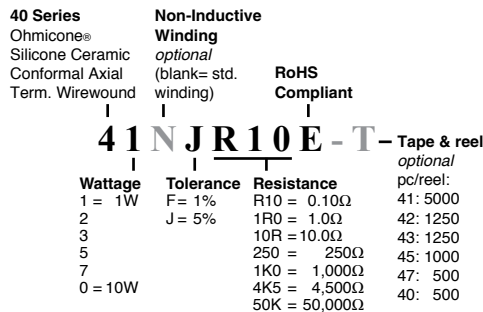
ORDERING INFORMATION

Standard part numbers

| Ohmic value | Wattage and Tolerance | | | | | | | | | | Ohmic value | Wattage and Tolerance | | | | | | | | | | Ohmic value | Wattage and Tolerance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Part No. Prefix Suffix | 1% Tolerance | | | | | 5% Tolerance | | | | | Part No. Prefix Suffix | 1% Tolerance | | | | | 5% Tolerance | | | | | Part No. Prefix Suffix | 1% Tolerance | | | | | 5% Tolerance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.1 | ---R10 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 68 | ---68R | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 2,200 | ---2K2 | ✓ | ✓ | ✓ | ✓ | ✓ | 2,500 | ---2K5 | ✓ | ✓ | ✓ | ✓ | ✓ | 2,700 | ---2K7 | ✓ | ✓ | ✓ | ✓ | ✓ | 3,000 | ---3K0 | ✓ | ✓ | ✓ | ✓ | ✓ | 3,300 | ---3K3 | ✓ | ✓ | ✓ | ✓ | ✓ | 3,500 | ---3K5 | ✓ | ✓ | ✓ | ✓ | ✓ | 3,900 | ---3K9 | ✓ | ✓ | ✓ | ✓ | ✓ | 4,000 | ---4K0 | ✓ | ✓ | ✓ | ✓ | ✓ | 4,500 | ---4K5 | ✓ | ✓ | ✓ | ✓ | ✓ | 4,700 | ---4K7 | ✓ | ✓ | ✓ | ✓ | ✓ | 5,000 | ---5K0 | ✓ | ✓ | ✓ | ✓ | ✓ | 6,000 | ---6K0 | ✓ | ✓ | ✓ | ✓ | ✓ | 6,800 | ---6K8 | ✓ | ✓ | ✓ | ✓ | ✓ | 7,000 | ---7K0 | ✓ | ✓ | ✓ | ✓ | ✓ | 7,500 | ---7K5 | ✓ | ✓ | ✓ | ✓ | ✓ | 8,000 | ---8K0 | ✓ | ✓ | ✓ | ✓ | ✓ | 9,000 | ---9K0 | ✓ | ✓ | ✓ | ✓ | ✓ | 10,000 | ---10K | ✓ | ✓ | ✓ | ✓ | ✓ | 12,000 | ---12K | ✓ | ✓ | ✓ | ✓ | ✓ | 13,000 | ---13K | ✓ | ✓ | ✓ | ✓ | ✓ | 15,000 | ---15K | ✓ | ✓ | ✓ | ✓ | ✓ | 17,000 | ---17K | ✓ | ✓ | ✓ | ✓ | ✓ | 20,000 | ---20K | ✓ | ✓ | ✓ | ✓ | ✓ | 22,000 | ---22K | ✓ | ✓ | ✓ | ✓ | ✓ | 25,000 | ---25K | ✓ | ✓ | ✓ | ✓ | ✓ | 30,000 | ---30K | ✓ | ✓ | ✓ | ✓ | ✓ | 33,000 | ---33K | ✓ | ✓ | ✓ | ✓ | ✓ | 35,000 | ---35K | ✓ | ✓ | ✓ | ✓ | ✓ | 40,000 | ---40K | ✓ | ✓ | ✓ | ✓ | ✓ | 50,000 | ---50K | ✓ | ✓ | ✓ | ✓ | ✓ |

✓ = Standard values
 ◆ = Non-standard values subject to minimum handling charge per item

Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.



Looking for pricing, stock, or lifecycle information?

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 [Ohmite Information](#)

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