

# 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

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

(continued)

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

### ORDERING INFORMATION

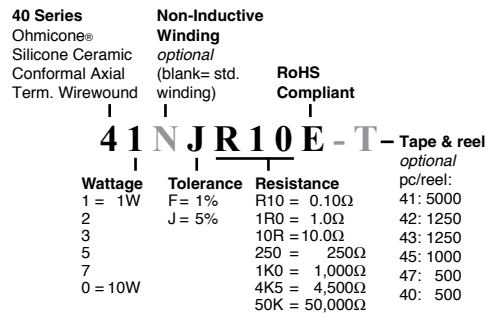
#### Standard part numbers

| Wattage and Tolerance |                            |              |   |   |    |              |   |   |   |    | Wattage and Tolerance |                            |              |   |   |    |              |   |   |   |        | Wattage and Tolerance   |                            |              |   |   |    |              |   |   |   |    |   |   |   |   |   |
|-----------------------|----------------------------|--------------|---|---|----|--------------|---|---|---|----|-----------------------|----------------------------|--------------|---|---|----|--------------|---|---|---|--------|---|----------------------------|--------------|---|---|----|--------------|---|---|---|----|---|---|---|---|---|
| Ohmic value           | Part No. Prefix > Suffix < | 1% Tolerance |   |   |    | 5% Tolerance |   |   |   |    | Ohmic value           | Part No. Prefix > Suffix < | 1% Tolerance |   |   |    | 5% Tolerance |   |   |   |        | Ohmic value   | Part No. Prefix > Suffix < | 1% Tolerance |   |   |    | 5% Tolerance |   |   |   |    |   |   |   |   |   |
|                       |                            | 1            | 3 | 5 | 10 | 1            | 2 | 3 | 5 | 10 |                       |                            | 1            | 3 | 5 | 10 | 1            | 2 | 3 | 5 | 10     |   |                            | 1            | 3 | 5 | 10 | 1            | 2 | 3 | 5 | 10 |   |   |   |   |   |
| 0.1                   | R10                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 68                    | 68R                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 2,200  | 2K2   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ |   |   |
| 0.15                  | R15                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 75                    | 75R                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 2,500  | 2K5   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ |   |   |   |
| 0.2                   | R20                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 82                    | 82R                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 2,700  | 2K7   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ |   |   |   |
| 0.25                  | R25                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 100                   | 100                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 3,000  | 3K0   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ |   |   |   |
| 0.3                   | R30                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 120                   | 120                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 3,300  | 3K3   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ |   |   |   |
| 0.33                  | R33                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 125                   | 125                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 3,500  | 3K5   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ |   |   |   |
| 0.4                   | R40                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 150                   | 150                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 3,900  | 3K9   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ |   |   |   |
| 0.5                   | R50                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 180                   | 180                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 4,000  | 4K0   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ |   |   |   |
| 0.75                  | R75                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 200                   | 200                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 4,500  | 4K5   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ |   |   |   |
| 1                     | R100                       | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 220                   | 220                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 4,700  | 4K7   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ |   |   |   |
| 1.5                   | R150                       | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 225                   | 225                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 5,000  | 5K0   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ |   |   |   |
| 2                     | R200                       | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 250                   | 250                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 6,000  | 6K0   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ |   |   |
| 2.2                   | R220                       | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 270                   | 270                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 6,800  | 6K8   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ |   |   |
| 3                     | R300                       | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 300                   | 300                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 7,000  | 7K0   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ |   |   |
| 4                     | R400                       | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 330                   | 330                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 7,500  | 7K5   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ |   |   |
| 5                     | R500                       | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 350                   | 350                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 8,000  | 8K0   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ |   |   |
| 7.5                   | R750                       | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 390                   | 390                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 9,000  | 9K0   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ |   |   |
| 10                    | R1000                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 400                   | 400                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 10,000 | 10K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ |   |   |
| 12                    | R1200                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 450                   | 450                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 12,000 | 12K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ | ✓ |   |
| 15                    | R1500                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 470                   | 470                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 13,000 | 13K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ | ✓ |   |
| 18                    | R1800                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 500                   | 500                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 15,000 | 15K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ | ✓ |   |
| 20                    | R2000                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 560                   | 560                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 17,000 | 17K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ | ✓ |   |
| 22                    | R2200                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 600                   | 600                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 20,000 | 20K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ | ✓ |   |
| 25                    | R2500                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 680                   | 680                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 22,000 | 22K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 27                    | R2700                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 750                   | 750                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 25,000 | 25K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 30                    | R3000                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 800                   | 800                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 30,000 | 30K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 33                    | R3300                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 820                   | 820                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 33,000 | 33K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 35                    | R3500                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 900                   | 900                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 35,000 | 35K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 39                    | R3900                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 1,000                 | 1K0                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 40,000 | 40K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 40                    | R4000                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 1,100                 | 1K1                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | 50,000 | 50K   | ✓                          | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | ✓ | ✓ | ✓ | ✓ |   |
| 47                    | R4700                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 1,200                 | 1K2                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓      | Standard values   |                            |              |   |   |    |              |   |   |   |    |   |   |   |   |   |
| 50                    | R5000                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 1,500                 | 1K5                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓      | Non-standard values subject to minimum handling charge per item |                            |              |   |   |    |              |   |   |   |    |   |   |   |   |   |
| 56                    | R5600                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 1,800                 | 1K8                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓      |   |                            |              |   |   |    |              |   |   |   |    |   |   |   |   |   |
| 62                    | R6200                      | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓  | 2,000                 | 2K0                        | ✓            | ✓ | ✓ | ✓  | ✓            | ✓ | ✓ | ✓ | ✓      |   |                            |              |   |   |    |              |   |   |   |    |   |   |   |   |   |

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

✓ = Standard values

✦ = Non-standard values subject to minimum handling charge per item





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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