

# 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)

# 40 Series

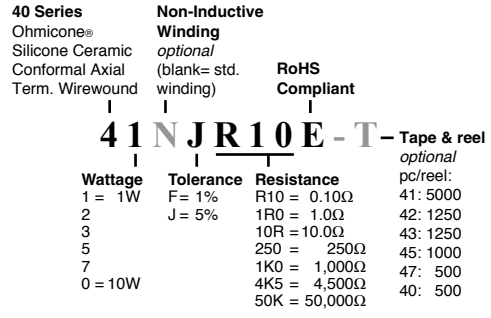
## Ohmicone® Silicone-Ceramic Conformal Axial Terminal Wirewound 1% and 5% Tolerance Standard

### ORDERING INFORMATION

#### Standard part numbers

| Ohmic value | Wattage and Tolerance      |              | Wattage and Tolerance |                            | Ohmic value | Wattage and Tolerance |              | Wattage and Tolerance      |              | Ohmic value  | Wattage and Tolerance |                            | Wattage and Tolerance |              |
|-------------|----------------------------|--------------|-----------------------|----------------------------|-------------|-----------------------|--------------|----------------------------|--------------|--|-----------------------|----------------------------|-----------------------|--------------|
|             | Part No. Prefix > Suffix > | 1% Tolerance | 5% Tolerance          | 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                   | ✓                          | ✓                     |              |
| 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           | 1R0                        | ✓            | ✓                     | ✓                          | 220         | 220                   | ✓            | ✓                          | ✳            | 4,700  | 4K7                   | ✳                          | ✓                     |              |
| 1.5         | 1R5                        | ✓            | ✓                     | ✓                          | 225         | 225                   | ✳            | ✳                          | ✓            | 5,000  | 5K0                   |                            | ✓                     |              |
| 2           | 2R0                        | ✓            | ✓                     | ✓                          | 250         | 250                   | ✓            | ✓                          | ✓            | 6,000  | 6K0                   | ✳                          | ✓                     |              |
| 2.2         | 2R2                        | ✓            | ✓                     | ✓                          | 270         | 270                   | ✓            | ✓                          | ✳            | 6,800  | 6K8                   |                            | ✓                     |              |
| 3           | 3R0                        | ✓            | ✓                     | ✳                          | 300         | 300                   | ✓            | ✳                          | ✓            | 7,000  | 7K0                   |                            | ✳                     |              |
| 4           | 4R0                        | ✓            | ✓                     | ✓                          | 330         | 330                   | ✓            | ✳                          | ✓            | 7,500  | 7K5                   |                            | ✓                     |              |
| 5           | 5R0                        | ✓            | ✓                     | ✓                          | 350         | 350                   | ✳            | ✓                          | ✳            | 8,000  | 8K0                   |                            | ✳                     |              |
| 7.5         | 7R5                        | ✓            | ✓                     | ✓                          | 390         | 390                   | ✳            | ✓                          | ✓            | 9,000  | 9K0                   |                            | ✓                     |              |
| 10          | 10R                        | ✓            | ✓                     | ✓                          | 400         | 400                   | ✓            | ✓                          | ✳            | 10,000   | 10K                   |                            | ✓                     |              |
| 12          | 12R                        | ✳            | ✓                     | ✓                          | 450         | 450                   | ✳            | ✓                          | ✳            | 12,000   | 12K                   |                            | ✓                     |              |
| 15          | 15R                        | ✓            | ✓                     | ✳                          | 470         | 470                   | ✓            | ✓                          | ✳            | 13,000   | 13K                   |                            | ✓                     |              |
| 18          | 18R                        | ✳            | ✓                     | ✳                          | 500         | 500                   | ✓            | ✓                          | ✳            | 15,000   | 15K                   |                            | ✓                     |              |
| 20          | 20R                        | ✓            | ✓                     | ✓                          | 560         | 560                   | ✓            | ✓                          | ✓            | 17,000   | 17K                   |                            | ✳                     |              |
| 22          | 22R                        | ✓            | ✓                     | ✳                          | 600         | 600                   | ✓            | ✓                          | ✓            | 20,000   | 20K                   |                            | ✓                     |              |
| 25          | 25R                        | ✓            | ✓                     | ✳                          | 680         | 680                   | ✓            | ✓                          | ✳            | 22,000   | 22K                   |                            | ✓                     |              |
| 27          | 27R                        | ✳            | ✓                     | ✓                          | 750         | 750                   | ✓            | ✓                          | ✓            | 25,000   | 25K                   |                            | ✓                     |              |
| 30          | 30R                        | ✓            | ✓                     | ✓                          | 800         | 800                   | ✓            | ✓                          | ✳            | 30,000   | 30K                   |                            | ✓                     |              |
| 33          | 33R                        | ✓            | ✓                     | ✓                          | 820         | 820                   | ✓            | ✓                          | ✓            | 33,000   | 33K                   |                            | ✓                     |              |
| 35          | 35R                        | ✓            | ✳                     | ✓                          | 900         | 900                   | ✓            | ✓                          | ✳            | 35,000   | 35K                   |                            | ✓                     |              |
| 39          | 39R                        | ✓            | ✓                     | ✳                          | 1,000       | 1K0                   | ✓            | ✓                          | ✓            | 40,000   | 40K                   |                            | ✓                     |              |
| 40          | 40R                        | ✓            | ✓                     | ✓                          | 1,100       | 1K1                   | ✓            | ✓                          | ✳            | 50,000   | 50K                   |                            | ✓                     |              |
| 47          | 47R                        | ✓            | ✓                     | ✳                          | 1,200       | 1K2                   | ✓            | ✓                          | ✳            | ✓ = Standard values<br>✳ = Non-standard values subject to minimum handling charge per item |                       |                            |                       |              |
| 50          | 50R                        | ✓            | ✓                     | ✓                          | 1,500       | 1K5                   | ✓            | ✓                          |              |  |                       |                            |                       |              |
| 56          | 56R                        | ✓            | ✓                     | ✓                          | 1,800       | 1K8                   | ✓            | ✓                          |              |  |                       |                            |                       |              |
| 62          | 62R                        | ✓            | ✓                     | ✓                          | 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.



## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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