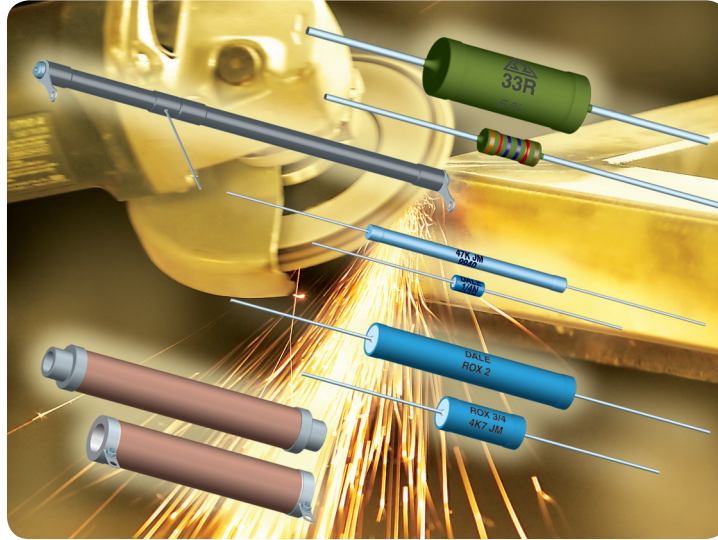


# METAL OXIDE RESISTORS

## Resistive Products



### An Overview of Metal Oxide Resistors from Vishay



#### KEY BENEFITS

- A wide range of power ratings (0.25 W to 400 W)
- A wide resistance range (0.16  $\Omega$  to 10 G $\Omega$ )
- Low/high temperature performance (- 55  $^{\circ}\text{C}$  to + 200  $^{\circ}\text{C}$ )
- Tight tolerances (down to  $\pm 0.5\%$ )
- Low temperature coefficients (down to  $\pm 50$  ppm/ $^{\circ}\text{C}$ )
- Highly stable construction

#### APPLICATIONS

- Power supplies
- Refrigerators
- Air conditioners
- Clothes dryers
- Welding equipment
- Car electronics
- High-power, high-voltage applications
- Voltage dividers

#### RESOURCES

- For technical questions on Dale Metal Oxide products, contact [ff2aresistors@vishay.com](mailto:ff2aresistors@vishay.com)
- For technical questions on Draloric Metal Oxide products, contact [leadedresistors@vishay.com](mailto:leadedresistors@vishay.com)

One of the World's Largest Manufacturers of  
Discrete Semiconductors and Passive Components


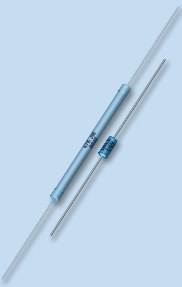
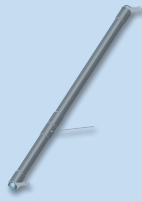


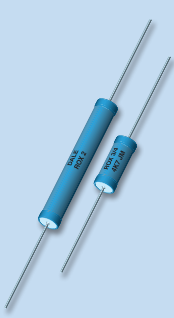
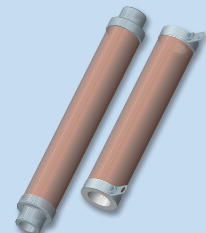
# METAL OXIDE RESISTORS

## Resistive Products



### Resistors - Wide Range of Power Ratings

| Model  | Product                | Wattage Rating |       |        | Resistance Range                               | TC<br>ppm/°C           | Tolerance   |
|--|------------------------|----------------|-------|--------|--|------------------------|---|
| <b>WK/WR</b><br><br>                            | WK2                    | 1.0            |       |        | 4.7 Ω - 1 MΩ<br>0.22 Ω - 1 MΩ                  | ± 50<br>± 100, ± 200   | ± 1 %<br>± 5 %  |
|  | WR4                    | 2.0            |       |        | 0.33 Ω - 1 MΩ                                  | ± 200                  | ± 5 %   |
|  | WR5                    | 3.0            |       |        | 0.22 Ω - 560 KΩ                                | ± 200                  | ± 5 %   |
|  | WR8                    | 4.0            |       |        | 0.22 Ω - 100 KΩ                                | ± 200                  | ± 5 %   |
| <b>RNX<br/>(Non-Inductive RNX...N)</b><br><br> | RNX025<br>(RNX-1/4)    | 25 °C          | 70 °C | 125 °C | 1 KΩ - 100 MΩ<br>1 KΩ - 100 MΩ<br>1 MΩ - 22 MΩ | ± 200<br>± 100<br>± 50 | ± 0.5 %, ± 1 %, ± 2 %, ± 5 %, ± 10 %<br><br>± 1 % standard up to 1 GΩ<br><br>± 5 % above 1 GΩ<br><br>± 0.5 % available for ± 50 ppm/°C only |
|  |                        | 0.5            | 0.36  | 0.25   |  |                        |   |
|  | RNX038<br>(RNX-3/8)    | 1.0            | 0.72  | 0.50   | 1 KΩ - 1 GΩ<br>1 KΩ - 100 MΩ<br>1 MΩ - 50 MΩ   | ± 200<br>± 100<br>± 50 |   |
|  | RNX050<br>(RNX-1/2)    | 1.2            | 0.86  | 0.60   | 1 KΩ - 2 GΩ<br>1 KΩ - 250 MΩ<br>1 MΩ - 100 MΩ  | ± 200<br>± 100<br>± 50 |   |
|  | RNX075<br>(RNX-3/4)    | 2.0            | 1.44  | 1.0    | 1 KΩ - 2 GΩ<br>1 KΩ - 500 MΩ<br>1 MΩ - 100 MΩ  | ± 200<br>± 100<br>± 50 |   |
|  | RNX100<br>(RNX-1)      | 2.5            | 1.80  | 1.25   | 1 KΩ - 2 GΩ<br>1 KΩ - 500 MΩ<br>1 MΩ - 100 MΩ  | ± 200<br>± 100<br>± 50 |   |
|  | RNX125<br>(RNX-1-1/4)  | 3.0            | 2.16  | 1.50   | 1 KΩ - 2 GΩ<br>1 KΩ - 500 MΩ                   | ± 200<br>± 100         |   |
|  | RNX 150<br>(RNX-1-1/2) | 4.0            | 2.88  | 2.0    | 1 KΩ - 2 GΩ<br>1 KΩ - 500 MΩ                   | ± 200<br>± 100         |   |
|  | RNX200<br>(RNX-2)      | 5.0            | 3.60  | 2.5    | 1 KΩ - 2 GΩ<br>1 KΩ - 500 MΩ                   | ± 200<br>± 100         |   |
| <b>RDX</b><br><br>                            | RDX2                   | 125 °C         |       |        | MIN R <sub>1</sub>                             | MAX R <sub>2</sub>     | ± 200 standard<br>± 100 available<br><br>± 1 %, ± 2 %, ± 5 %, ± 10 %  |
|  |                        | 4              |       |        | 2 KΩ   | 2 GΩ                   |   |
|  | RDX3                   | 5              |       |        | 3 KΩ   | 10 GΩ                  |   |
|  | RDX4                   | 7              |       |        | 4 KΩ   | 10 GΩ                  |   |
|  | RDX5                   | 8              |       |        | 5 KΩ   | 10 GΩ                  |   |
|  | RDX6                   | 10             |       |        | 6 KΩ   | 10 GΩ                  |   |
|  | RDX7                   | 12             |       |        | 7 KΩ   | 10 GΩ                  |   |

| Model  | Product               | Wattage Rating |       |               | Resistance Range                              | TC<br>ppm/°C           | Tolerance                                   |
|--|-----------------------|----------------|-------|---------------|---|------------------------|---|
|  |                       | 25 °C          | 70 °C | 125 °C        |   |                        |   |
| <b>ROX</b><br>(Non-Inductive ROX...N)<br> | ROX050<br>(ROX-1/2)   | 2.0            | 1.4   | 1             | 1 KΩ - 1 GΩ<br>1 KΩ - 100 MΩ<br>1 MΩ - 100 MΩ | ± 200<br>± 100<br>± 50 | ± 1 %, ± 2 %, ± 5 %, ± 10 %                 |
|  | ROX075<br>(ROX-3/4)   | 3.0            | 2.16  | 1.5           | 1 KΩ - 3 GΩ<br>1 KΩ - 500 MΩ<br>1 MΩ - 100 MΩ | ± 200<br>± 100<br>± 50 |   |
|  | ROX100<br>(ROX-1)     | 4.0            | 2.88  | 2             | 1 KΩ - 3 GΩ<br>1 KΩ - 500 MΩ<br>1 MΩ - 100 MΩ | ± 200<br>± 100<br>± 50 |   |
|  | ROX150<br>(ROX-1-1/2) | 5.0            | 3.6   | 2.5           | 1 KΩ - 3 GΩ<br>1 KΩ - 500 MΩ<br>1 MΩ - 100 MΩ | ± 200<br>± 100<br>± 50 |   |
|  | ROX200<br>(ROX-2)     | 6.0            | 4.32  | 3             | 1 KΩ - 3 GΩ<br>1 KΩ - 1 GΩ<br>1 MΩ - 500 MΩ   | ± 200<br>± 100<br>± 50 |   |
|  | ROX300<br>(ROX-3)     | 10.0           | 7.2   | 5             | 1 KΩ - 3 GΩ<br>1 KΩ - 1 GΩ<br>1 MΩ - 500 MΩ   | ± 200<br>± 100<br>± 50 |   |
|  | ROX400<br>(ROX-4)     | 12.0           | 8.64  | 6             | 1 KΩ - 3 GΩ<br>1 KΩ - 1 GΩ<br>1 MΩ - 500 MΩ   | ± 200<br>± 100<br>± 50 |   |
|  | ROX500<br>(ROX-5)     | 16.0           | 11.52 | 8             | 1 KΩ - 3 GΩ<br>1 KΩ - 1 GΩ<br>1 MΩ - 500 MΩ   | ± 200<br>± 100<br>± 50 |   |
|  | ROX600<br>(ROX-6)     | 20.0           | 14.4  | 10            | 1 KΩ - 3 GΩ<br>1 KΩ - 1 GΩ<br>1 MΩ - 500 MΩ   | ± 200<br>± 100<br>± 50 |   |
| <b>RJU</b><br>                          |                       | 25 °C          |       |               |   |                        | ± 200, ± 100<br>± 1 %, ± 2 %, ± 5 %, ± 10 % |
|  | RJU040                | 40             |       |               | 1 KΩ - 1 GΩ                                   |                        |   |
|  | RJU050                | 50             |       |               | 1 KΩ - 1 GΩ                                   |                        |   |
|  | RJU070                | 70             |       |               | 1 KΩ - 1 GΩ                                   |                        |   |
|  | RJU095/<br>RJU095..1  | 95             |       |               | 1 KΩ - 1 GΩ                                   |                        |   |
|  | RJU140/<br>RJU140..1  | 140            |       |               | 1 KΩ - 1 GΩ                                   |                        |   |
|  | RJU150/<br>RJU150..1  | 150            |       |               | 100 KΩ - 1 GΩ                                 |                        |   |
|  | RJU275/<br>RJU275..1  | 275            |       |               | 100 KΩ - 1 GΩ                                 |                        |   |
| RJU400/<br>RJU400..1   | 400                   |                |       | 100 KΩ - 1 GΩ |   |                        |   |



# METAL OXIDE RESISTORS

## Resistive Products



Resistors - Wide Range of Power Ratings

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