

ROX05SJ82R

✓ ACTIVE

Neohm | Neohm ROX

TE Internal #: 4-1676123-9

Through-Hole General Purpose Resistor, Metal Oxide Film, .5 W, 82 ohm, 5 %, ±350 ppm/°C, Axial-Leaded, Copper Termination, 7.2 x 2.5 mm, Neohm ROX

[View on TE.com >](#)



Passive Components > Resistors > Through-Hole Resistors



Resistor Type: **General Purpose Resistor**

Element Type: **Metal Oxide Film**

Power Rating: **.5 W**

Resistance Class: **Up to 1kΩ**

Resistance Value: **82 Ω**

Features

Usage Conditions

|                             |              |
|-----------------------------|--------------|
| Operating Temperature Range | -55 – 155 °C |
| Temperature Coefficient     | ±350 ppm/°C  |

Electrical Characteristics

|                             |           |
|-----------------------------|-----------|
| Operating Voltage           | 250 V     |
| Power Rating                | .5 W      |
| Resistance Class            | Up to 1kΩ |
| Resistance Value            | 82 Ω      |
| Passive Component Tolerance | 5 %       |

Product Type Features

|               |                          |
|---------------|--------------------------|
| Resistor Type | General Purpose Resistor |
| Element Type  | Metal Oxide Film         |

Configuration Features

|                     |   |
|---------------------|---|
| Number of Resistors | 1 |
|---------------------|---|



Body Features

|           |              |
|-----------|--------------|
| Lead Type | Axial-Leaded |
|-----------|--------------|

Termination Features

|                                |        |
|--------------------------------|--------|
| Termination Area Base Material | Copper |
| Number of Terminations         | 2      |

Dimensions

|                              |              |
|------------------------------|--------------|
| Passive Component Dimensions | 7.2 x 2.5 mm |
|------------------------------|--------------|

Packaging Features

|                  |             |
|------------------|-------------|
| Packaging Method | Ammo Packed |
|------------------|-------------|

Other

|                    |           |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
| EU ELV Compliance  | Compliant |

Product Compliance

For compliance documentation, visit the product page on TE.com>

|                                               |                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Compliant                                                                                                                       |
| EU ELV Directive 2000/53/EC                   | Compliant                                                                                                                       |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold                                                                                         |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2024 (241)<br>Candidate List Declared Against: JUNE 2023 (235)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                             |
| Solder Process Capability                     | Wave solder capable to 265°C                                                                                                    |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>



Compatible Parts



TE Part # 1625881-2  
1W STD M/OX 2% 220R



TE Part # 2-1625892-1  
3W SM M/OX 5% 1K0



TE Part # 6-1676123-7  
1/2W SM M/OX 5% 470R



TE Part # 1625893-5  
5W SM M/OX 5% 47K



TE Part # 4-1625886-1  
1W SM M/OX 5% 820K

Also in the Series | [Neohm ROX](#)



[Through-Hole Resistors\(783\)](#)

Customers Also Bought



TE Part #1630027-5  
HSC300 1K0 5%



TE Part #4-1437624-3  
PKE60B1/4=KNOB PLASTIC BLK FLU



TE Part #1676178-2  
RN 0805 133R 0.1% 10PPM 1KRL



TE Part #1676335-3  
RN 0805 40K2 0.1% 10PPM 5KRL



TE Part #3-1625890-4

[2W SM M/OX 5% 270K](#)

TE Part #2176330-3

[CRGP 2010 15R 1%](#)

TE Part #2176411-1

[1/2W SM M/OX 5% 11K](#)

TE Part #5-1676123-7

[1/2W SM M/OX 5% 180R](#)

TE Part #9246090001

[TMS-SCE-1/8-2.0-S1-9](#)

TE Part #3-1768803-4

[LBC-TYC-BS7671-S](#)

Documents

Product Drawings

[1/2W SM M/OX 5% 82R](#)

English

Datasheets & Catalog Pages

[Flame Proof Power Metal Oxide Film Resistors - Type ROX Series - Tyco Electronics Passives](#)

English