



Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **Power Resistor**  
Element Type: **Thick Metal Film**  
Package Size Code: **2010**  
Power Rating: **2 W**  
Resistance Value: **1.6 Ω**

Features

Product Type Features

|                   |                  |
|-------------------|------------------|
| Resistor Type     | Power Resistor   |
| Element Type      | Thick Metal Film |
| Package Size Code | 2010             |

Configuration Features

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

Electrical Characteristics

|                             |           |
|-----------------------------|-----------|
| Operating Voltage           | 200 V     |
| Power Rating                | 2 W       |
| Resistance Value            | 1.6 Ω     |
| Resistance Class            | Up to 1kΩ |
| Passive Component Tolerance | 1 %       |

Termination Features

|                                         |        |
|-----------------------------------------|--------|
| Surface Mount Resistor Termination Type | Solder |
| Number of Terminations                  | 2      |



Dimensions

|                |                 |
|----------------|-----------------|
| Product Height | 1.1 mm[.043 in] |
| Product Length | 5 mm[.197 in]   |
| Product Width  | 2.5 mm[.098 in] |

Usage Conditions

|                         |             |
|-------------------------|-------------|
| Temperature Coefficient | ±200 ppm/°C |
|-------------------------|-------------|

Packaging Features

|                  |                |
|------------------|----------------|
| Packaging Method | Taped & Reeled |
|------------------|----------------|

Product Compliance

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

|                                               |                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Compliant with Exemptions                                                                                                       |
| EU ELV Directive 2000/53/EC                   | Not Compliant                                                                                                                   |
| China RoHS 2 Directive MIIT Order No 32, 2016 | 有害物质含量超出标准 Restricted Substance(s) Above Threshold                                                                              |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                                |
| Solder Process Capability                     | Reflow solder capable to 260°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 # 3-2176397-1  
3502 18R 1%

TE Part # 8-2176397-0  
3502 2K0 1%

TE Part # 8-2176397-3  
3502 2K7 1%

TE Part # 3-2176397-2  
3502 20R 1%

TE Part # 4-2176397-1  
3502 47R 1%

Also in the Series | CGS 3502

Surface Mount Resistors(254)

Customers Also Bought

TE Part #CONMHF1-SMD-G-T  
U.FL/MHF1 Jack 50 Ohm PCB Surface Mount

TE Part #32948  
PG R 22-16 COMM 22-18 MIL 8

TE Part #55148-1  
TERM,PIDG, RT, 22-16, #10, BENT 90

TE Part #710031-4  
XCT 10-6

TE Part #747275-2  
025 LP HDF STRAIN RELIEF

TE Part #1571262-1  
SWITCH,TACTILE,SMT,TURTLE

TE Part #8-1676480-8  
CRG0402 1% 75K

TE Part #2-1761607-9  
IDC LOW PRO HDR 26P RA LAT



Documents

Product Drawings

3502 1R6 1%

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2176397-6\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2176397-6\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2176397-6\_A.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

SMD HIGH POWER RESISTORS - TYPE 3502 SERIES

English