3502820RFT ✔ ACTIVE

CGS | CGS 3502

TE Internal #: 7-2176397-1

820 ohm, Thick Metal Film, Power Resistor, 1 %, 2010, 2 W, ±100 ppm/°C, Solder, 2 Terminations, 1.1 mm [.043 in] Height, CGS 3502

View on TE.com >

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: **820 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	820 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	±100 ppm/°C

Packaging Features

Packaging Method	Taped & Reeled

Product Compliance

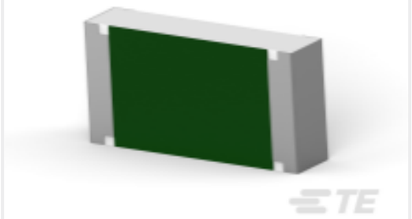
For compliance documentation, visit the product page on TE.com>

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) Candidate List Declared Against: JUNE 2025 (250) 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

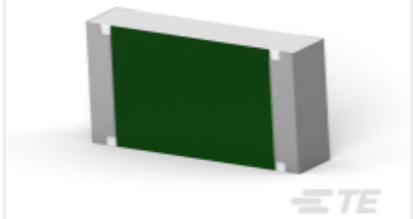
Product Compliance Disclaimer

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

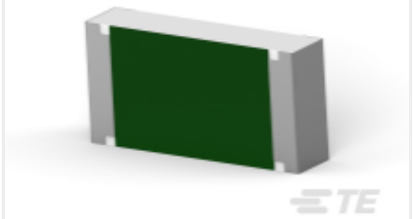
Compatible Parts



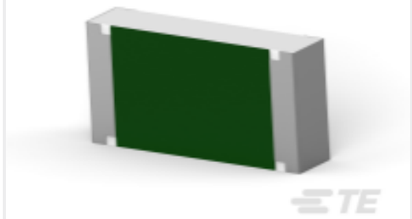
TE Part # 8-2176397-0
3502 2K0 1%



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



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

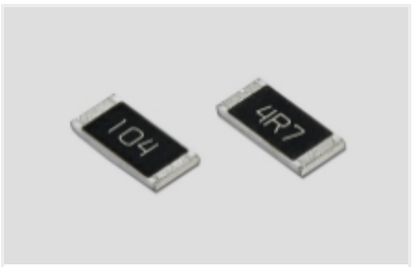


TE Part # 4-2176397-1
3502 47R 1%



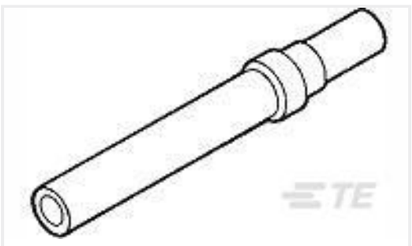
TE Part # 3-2176397-1
3502 18R 1%

Also in the Series | CGS 3502



Surface Mount Resistors(254)

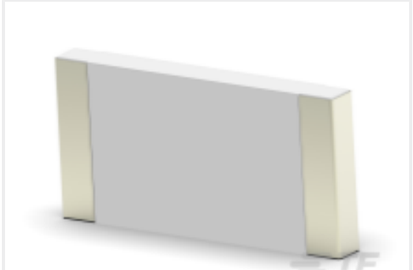
Customers Also Bought



TE Part #205090-1
HD 20 SOCKET CONTACT



TE Part #5-1393789-0
V23079G2002B301



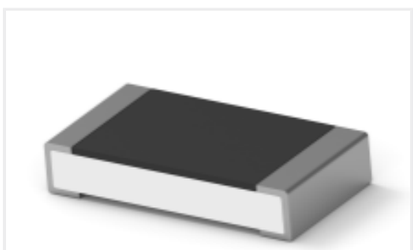
TE Part #2-2176251-1
CRGS2010 5% 47R



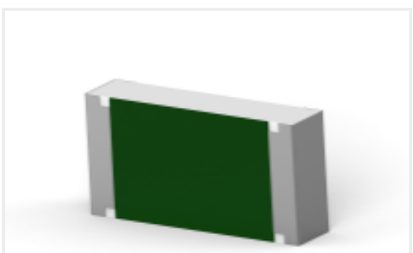
TE Part #5-2176328-1
CRGP 1206 150K 1%



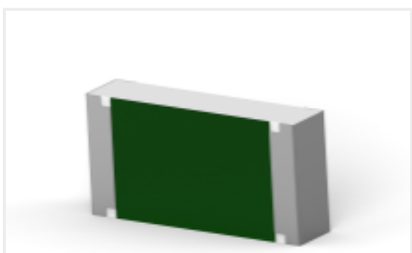
TE Part #2-2176329-6
CRGP 1210 1K2 1%



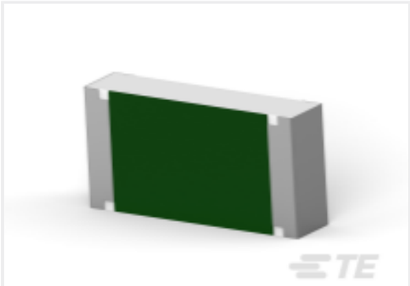
TE Part #4-2176385-1
RQ 1206 3K01 0.1% 10PPM 1K RL



TE Part #5-2176397-3
3502 150R 1%



TE Part #6-2176397-7
3502 560R 1%



TE Part #6-2176397-9
3502 680R 1%



TE Part #5103309-6
A/L LOW PRO HDR 26P VERT BLACK

Documents

Product Drawings

3502 820R 1%

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_7-2176397-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_7-2176397-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_7-2176397-1_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