# 3521680RFT ✔ ACTIVE

CGS | CGS 3521

TE Internal #: 4-2176070-5

680 ohm, Thick Film, Power Resistor, 1 %, 2512, 2 W, ±100 ppm/°C, Solder, 2 Terminations, .55 mm [.022 in] Height, 6.35 mm [.25 in] Length, CGS 3521

View on TE.com >

Passive Components > Resistors > Surface Mount Resistors > SMD Power Resistor: 2 Watt, 3521 Series




Resistor Type: **Power Resistor**

Element Type: **Thick Film**

Package Size Code: **2512**

Power Rating: **2 W**

Resistance Value: **680 Ω**

All SMD Power Resistor: 2 Watt, 3521 Series (120)

## Features

### Product Type Features

| | |
|---|---|
| Resistor Type | Power Resistor |
| Element Type | Thick Film |
| Package Size Code | 2512 |

### Configuration Features

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

### Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 250 V |
| Power Rating | 2 W |
| Resistance Value | 680 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 | .55 mm[.022 in] |

| | |
|---|---|
| Product Length | 6.35 mm[.25 in] |
| Product Width | 3.2 mm[.126 in] |

### Usage Conditions

| | |
|---|---|
| Temperature Coefficient | ±100 ppm/°C |

### Packaging Features

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

## Product Compliance

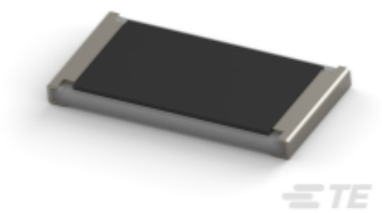
For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| 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)<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

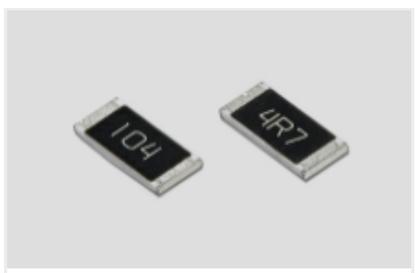
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # CAT-C339-A76A
SMD Power Resistor: 2 Watt, 3521 Series

## Also in the Series | CGS 3521




Surface Mount Resistors(122)

## Customers Also Bought



TE Part #1-66471-7
PIN,.062 DIA,.045 SQ POST,LP



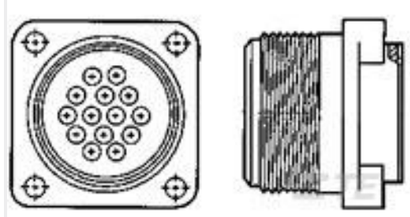
TE Part #1-66473-7
SKT,.062 DIA,.045 SQ POST,LP



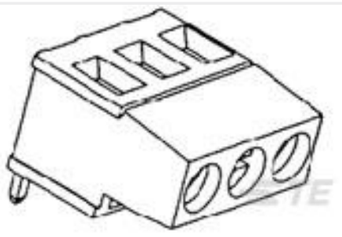
TE Part #1-66473-8
SKT,.062 DIA,.045 SQ POST,LP



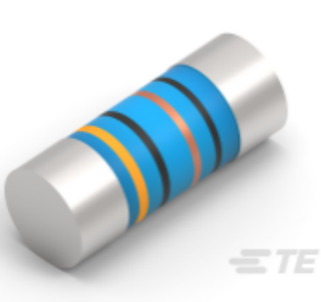
TE Part #211908-1
RECPT, 11-4, REVERSE SEX CPC



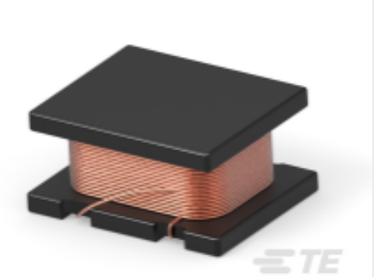
TE Part #213570-1
CPC RECPT 20-14 SPECIAL



TE Part #282851-4
TERMI-BLOK PCB MOUNT 180 4P.5



TE Part #4-2176315-0
MELF SMA_A 150R 1% 50PPM 0204 0.4 W



TE Part #2176635-7
3627 322515 15UH 10%



TE Part #5208006-2
HD-20 PLUG 9P VERT

TE Part #6-1768702-2
LBC-13041

## Documents

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_4-2176070-5_BB.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_4-2176070-5_BB.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_4-2176070-5_BB.3d_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

### Datasheets & Catalog Pages

SMD Power Resistor - Type 3521 Series

English