# 352251RFT ✔ ACTIVE

CGS | CGS 3522

TE Internal #: 1-2176231-8

51 ohm, Thick Film, Power Resistor, 1 %, 2512, 3 W, ±100 ppm/°C, Solder, 2 Terminations, 1.1 mm [.043 in] Height, 6.35 mm [.25 in] Length, CGS 3522

View on TE.com >

Passive Components > Resistors > Surface Mount Resistors > SMD Power Resistor: 3 Watt, 1% Tol




Resistor Type: **Power Resistor**

Element Type: **Thick Film**

Package Size Code: **2512**

Power Rating: **3 W**

Resistance Value: **51 Ω**

All SMD Power Resistor: 3 Watt, 1% Tol (140)

## Features

### Product Type Features

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

### Configuration Features

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

### Electrical Characteristics

| | |
|---|---|
| Power Rating | 3 W |
| Resistance Value | 51 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 | 6.35 mm[.25 in] |

| | |
|---|---|
| Product Width | 3.2 mm[.126 in] |

### Usage Conditions

| | |
|---|---|
| Operating Temperature Range | -55 – 155 °C[-67 – 311 °F] |
| Temperature Coefficient | ±100 ppm/°C |

### Packaging Features

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

## Product Compliance

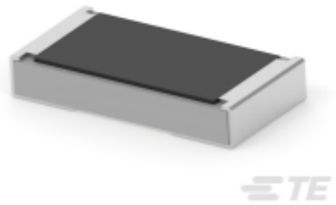
For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant with Exemptions |
| EU ELV Directive 2000/53/EC | Compliant with Exemptions |
| 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 |

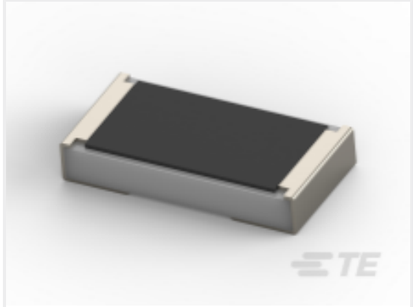
Product Compliance Disclaimer

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

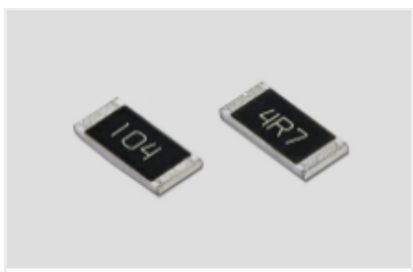


TE Part # 4-2176230-2
3522 2K2 5% 3W



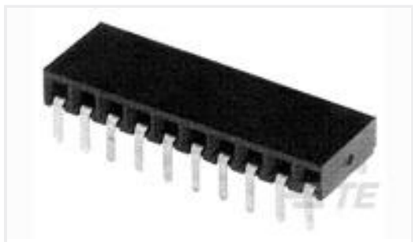
TE Part # CAT-C339-A76B
SMD Power Resistor: 3 Watt, 1% Tol

## Also in the Series | CGS 3522

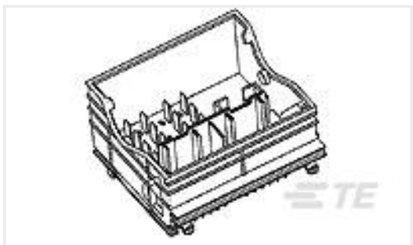



Surface Mount Resistors(211)

## Customers Also Bought



TE Part #216602-2
2P HV190 FEDERLEIS



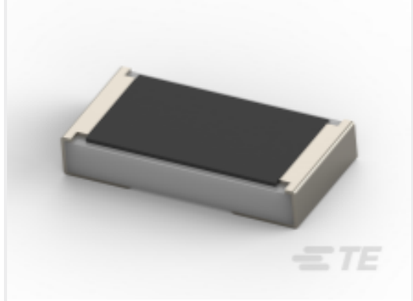
TE Part #1241768-1
MPQ/MQS ST-STE40+2P



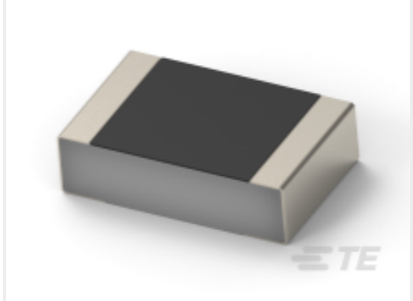
TE Part #1648163-1
261-0007-01100



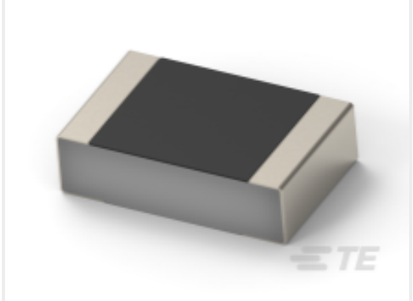

TE Part #1879459-1
RL73N 1E R10 1% 5K RL



TE Part #CAT-C339-A76B
SMD Power Resistor: 3 Watt, 1% Tol



TE Part #6-2176452-6
CPF 0201 2K55 0.1% 25ppm 1K RL



TE Part #8-2176452-9
CPF 0201 4K42 0.1% 25ppm 1K RL



TE Part #5-1823071-3
HSD,HDR ASSY,90DEG,COD D

## Documents

### Product Drawings

3522 51R 1% 3W

English

### CAD Files

3D PDF

3D

### Customer View Model

ENG_CVM_CVM_1-2176231-8_BA.2d_dxf.zip

English

### Customer View Model

ENG_CVM_CVM_1-2176231-8_BA.3d_igs.zip

English

### Customer View Model

ENG_CVM_CVM_1-2176231-8_BA.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 RESISTORS - TYPE 3522 SERIES

English