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

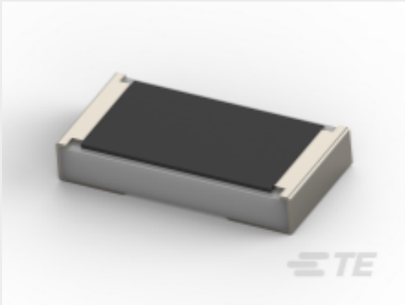
For compliance documentation, visit the product page on TE.com>

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) 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

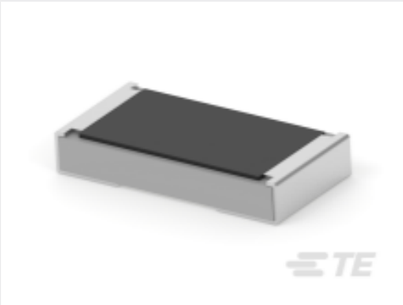
Product Compliance Disclaimer

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

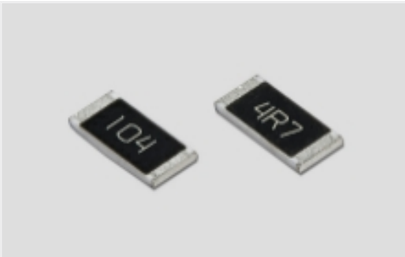


TE Part # CAT-C339-A76B
SMD Power Resistor: 3 Watt, 1% Tol



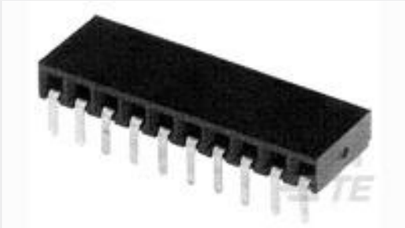
TE Part # 4-2176230-2
3522 2K2 5% 3W

Also in the Series | CGS 3522

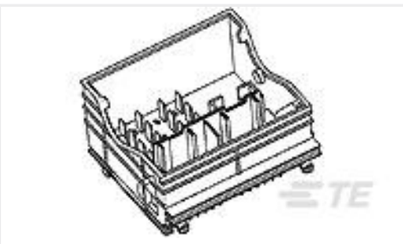


Surface Mount Resistors(211)

Customers Also Bought



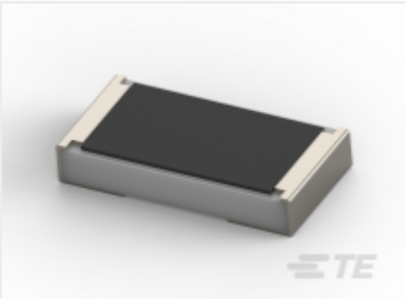
TE Part #216602-2
2P HV190 FEDERLEIS



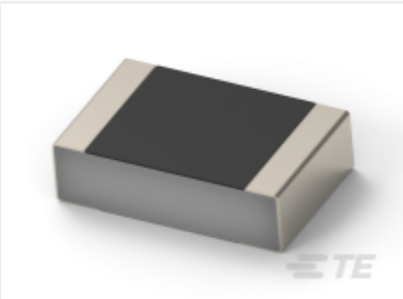
TE Part #1241768-1
MPQ/MQS ST-STE40+2P

TE Part #1648163-1
261-0007-01100

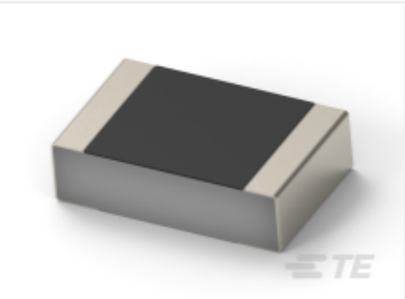
TE Part #1879459-1
RL73N 1E R10 1% 5K RL



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

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Datasheets & Catalog Pages

SMD POWER RESISTORS - TYPE 3522 SERIES

English