



Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **Power Resistor**
Element Type: **Thin Film**
Package Size Code: **2512**
Power Rating: **6 W**
Resistance Value: **51.1 Ω**

Features

Usage Conditions

Operating Temperature Range	-55 – 155 °C
Temperature Coefficient	±50 ppm/°C

Electrical Characteristics

Operating Voltage	100 V
Power Rating	6 W
Resistance Value	51.1 Ω
Resistance Class	Up to 1kΩ
Passive Component Tolerance	1 %

Product Type Features

Resistor Type	Power Resistor
Element Type	Thin Film
Package Size Code	2512

Configuration Features

Number of Resistors	1
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Termination Features

Surface Mount Resistor Termination Type	Solder
Number of Terminations	2

Dimensions

Product Height	.43 mm[.017 in]
Product Length	6.3 mm[.248 in]
Product Width	3.1 mm[.122 in]

Packaging Features

Packaging Method	Taped & Reeled
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Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

Product Compliance

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

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
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 # 2176532-1
3504G 3A 51R1 1% 4K RL

Also in the Series | CGS 3504

Surface Mount Resistors(534)

Customers Also Bought

TE Part #4515-DS5A002DP
2IN DP PRESSURE SENSOR 10% TO 90%

TE Part #9333-BBE-S-125-000
125PA DIFF. DIGITAL PRESSURE SENSOR

TE Part #1-1734035-1
MINI USB, TYPE B, R/A, SMT

TE Part #CONBNC001
BNC Jack 50 Ohm PCB Through Hole

TE Part #364914-E
STVC 64 M AC VV 4-00 0606 * * 247 E007 1

TE Part #5-2176421-2
TLRP 2512 2.0W R018 1% 50PPM 4K RL

TE Part #5-2176421-4
TLRP 2512 2.0W R022 1% 50PPM 4K RL

TE Part #6-2176421-8
TLRP 2512 2.0W R082 1% 50PPM 4K RL



Documents

Product Drawings

3504G 3A 51R1 1% 1K RL

English

CAD Files

Customer View Model

ENG_CVM_CVM_2176529-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2176529-1_A.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_2176529-1_A.2d_dxf.zip

English

3D PDF

3D

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

Datasheets & Catalog Pages

1773270-5

English