



Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **Power Resistor**
Number of Terminations: **2**
Package Size Code: **2512**
Packaging Method: **Taped & Reeled**
Passive Component Tolerance: **1 %**

Features

Product Type Features

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

Configuration Features

Number of Resistors	1
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Electrical Characteristics

Voltage Rating	100 V
Passive Component Tolerance	1 %
Resistance Class	Up to 1kΩ
Resistance Value	523 Ω
Power Rating	6 W

Termination Features

Number of Terminations	2
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Surface Mount Resistor Termination TypeSolder

Dimensions

Passive Component Dimensions	6.3 x 3.1 x .43 mm
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Usage Conditions

Operating Temperature Range	-55 – 155 $^{\circ}\text{C}$
Temperature Coefficient	± 50 ppm/ $^{\circ}\text{C}$

Packaging Features

Packaging Method	Taped & Reeled
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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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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 $^{\circ}\text{C}$

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

3504G3A523RFTDF

523 Ω , Thin Film, Power Resistor, 1 %, 2 Termination, 2512, Taped & Reeled, 6 W, ± 50 ppm/ $^{\circ}\text{C}$, Solder, 6.3 x 3.1 x .43 mm, CGS 3504



TE Part # 9-2176532-8
3504G 3A 523R 1% 4K RL

Also in the Series | CGS 3504

Surface Mount Resistors(534)

Customers Also Bought

TE Part #T4111002081-000
M12,MALE,STRAIGHT,A CODE,8P,
PG9,GOLD

TE Part #205204-8
HDP-20,PLUG,SIZE 1, 9 POSN

TE Part #1-1879073-2
THS10 1R8 5%

TE Part #217675-000
55PC0811-22-5LL-CS2502

TE Part #7-2176092-8
RP 2A 0.25W 4K99 0.1% 25PPM 1K RL

TE Part #4-2176403-2
3550 51R 1%

TE Part #6-2176370-9
RQ 0603 2K21 0.1% 10PPM 5K RL

TE Part #1-2176388-8
RQ 1206 15R 0.1% 10PPM 5K RL

TE Part #2334110-2
PIN CRIMP CONTACT AWG 20-24



Documents

Product Drawings

3504G 3A 523R 1% 1K RL

English

CAD Files

Customer View Model

ENG_CVM_CVM_9-2176529-8_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_9-2176529-8_A.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_9-2176529-8_A.2d_dxf.zip

English

3D PDF

3D

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Datasheets & Catalog Pages

1773270-5

English