



Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **Power Resistor**
Element Type: **Thick Film**
Package Size Code: **2512**
Power Rating: **3 W**
Resistance Value: **680 Ω**

Features

Product Type Features

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

Configuration Features

Number of Resistors	1
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Electrical Characteristics

Power Rating	3 W
Resistance Value	680 Ω
Resistance Class	Up to 1kΩ
Passive Component Tolerance	5 %

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

Temperature Coefficient	±100 ppm/°C
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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 with Exemptions
EU ELV Directive 2000/53/EC	Not Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	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	Low Halogen - Br, Cl, F, I < 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 #2-2176231-9
SMD Power Resistor: 3 Watt, 1% Tol

TE Part #5-794630-4
24P MICRO MNL ASSY,VRT,HDR,LF

TE Part #1676300-2
RN 0805 30K1 0.1% 10PPM 1KRL

TE Part #3-2176230-8
3522 1K0 5% 3W

TE Part #4-2176406-5
3560 68R 1%

TE Part #3-794679-2
02P MICRO MNL ASSY,R/A,THRU,LF

Documents

Product Drawings
3522 680R 5% 3W

English

CAD Files
Customer View Model
ENG_CVM_CVM_3-2176230-6_BA.2d_dxf.zip

3522680RJT

Power Resistor, Thick Film, 2512, 3 W, 680 ohm, 5 %, ±100 ppm/°C, Solder, 2 Termination, Height 1.1 mm [.043 in], Length 6.35 mm [.25 in], CGS 3522



English

Customer View Model

[ENG_CVM_CVM_3-2176230-6_BA.3d_stp.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_3-2176230-6_BA.3d_igs.zip](#)

English

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Datasheets & Catalog Pages

[SMD POWER RESISTORS - TYPE 3522 SERIES](#)

English