



CGS | CGS 3522

TE Internal #: 2176230-2

Power Resistor, Thick Film, 2512, 3 W, 1 ohm, 5 %, ±400 ppm/°C,  
Solder, 2 Termination, Height 1.1 mm [.043 in], Length 6.35 mm [.25  
in], 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: **1 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            | 1 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 | ±400 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                   | 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)<br>Candidate List Declared Against: JUNE 2024 (241)<br>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



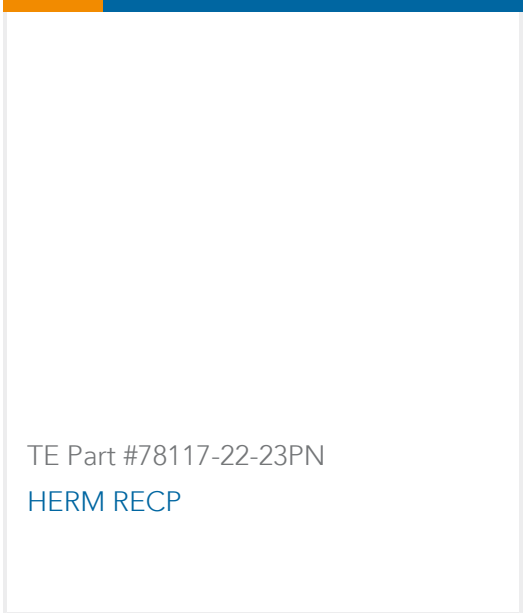
|                                                                   |                                              |                                              |                                              |
|-------------------------------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| <br>TE Part # CAT-C339-A76B<br>SMD Power Resistor: 3 Watt, 1% Tol | <br>TE Part # 4-2176230-2<br>3522 2K2 5% 3W  | <br>TE Part # 6-2176230-2<br>3522 100K 5% 3W | <br>TE Part # 2-2176230-6<br>3522 100R 5% 3W |
| <br>TE Part # 5-2176230-0<br>3522 10K 5% 3W                       | <br>TE Part # 8-2176230-6<br>3522 10M 5% 3W  | <br>TE Part # 6-2176230-3<br>3522 120K 5% 3W | <br>TE Part # 5-2176230-1<br>3522 12K 5% 3W  |
| <br>TE Part # 1-2176230-5<br>3522 12R 5% 3W                       | <br>TE Part # 2-2176230-8<br>3522 150R 5% 3W | <br>TE Part # 6-2176230-5<br>3522 180K 5% 3W | <br>TE Part # 2-2176230-9<br>3522 180R 5% 3W |
| <br>TE Part # 5-2176230-3<br>3522 18K 5% 3W                       | <br>TE Part # 1-2176230-7<br>3522 18R 5% 3W  | <br>TE Part # 3-2176230-8<br>3522 1K0 5% 3W  | <br>TE Part # 3-2176230-9<br>3522 1K2 5% 3W  |
| <br>TE Part # 4-2176230-0<br>3522 1K5 5% 3W                       | <br>TE Part # 4-2176230-1<br>3522 1K8 5% 3W  | <br>TE Part # 7-2176230-4<br>3522 1M0 5% 3W  | <br>TE Part # 7-2176230-5<br>3522 1M2 5% 3W  |

Also in the Series | CGS 3522





Customers Also Bought



Documents

Product Drawings

3522 1R0 5% 3W

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_2176230-2\_BA.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2176230-2\_BA.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2176230-2\_BA.3d\_stp.zip

English

3D PDF

3D

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

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Power Resistor, Thick Film, 2512, 3 W, 1 ohm, 5 %, ±400 ppm/°C, Solder, 2 Termination, Height 1.1 mm [.043 in], Length 6.35 mm [.25 in], CGS 3522



[Datasheets & Catalog Pages](#)  
[SMD POWER RESISTORS - TYPE 3522 SERIES](#)

English