



CGS | CGS TLRP

TE Internal #: 8-2176422-2

.005 ohm, Surface Mount Current Sensing Resistor, Metal Strip, 2512, 3 W, 1 %, ±75 ppm/°C, Solder, 2 Terminations, .7 mm [.028 in] Height, CGS TLRP

[View on TE.com >](#)

Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **Current Sensing Resistor**

Element Type: **Metal Strip**

Package Size Code: **2512**

Power Rating: **3 W**

Resistance Value: **.005 Ω**

**Features**

**Product Type Features**

Resistor Type	Current Sensing Resistor
Element Type	Metal Strip
Package Size Code	2512

**Configuration Features**

Number of Resistors	1
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**Electrical Characteristics**

Power Rating	3 W
Resistance Value	.005 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	.7 mm[.028 in]
Product Length	6.4 mm[.252 in]
Product Width	3.2 mm[.126 in]

### Usage Conditions

Temperature Coefficient	±75 ppm/°C
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### Industry Standards

ESD HBM Classification	2
UL Flammability Rating	UL 94V-0
Industry Standard	AEC-Q200 Compliant
Moisture Sensitivity Level	1

### Packaging Features

Packaging Method	Tape & Reel
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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	Out of Scope
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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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



## Also in the Series | CGS TLRP



## Customers Also Bought





## Documents

### Product Drawings

[TLRP 2512 3.0W R005 1% 75PPM 4K RL](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_8-2176422-2\\_BA.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_8-2176422-2\\_BA.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_8-2176422-2\\_BA.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

[SMD Low Ohmic Current Sense Resistors - Type TLRP Series](#)

English