



Passive Components > Resistors > Surface Mount Resistors



Resistance Value: 680 Ω

Resistor Type: General Purpose Resistor

Element Type: Thick Film

Package Size Code: 0603

Power Rating: .25 W

Features

Product Type Features

|                   |                          |
|-------------------|--------------------------|
| Resistor Type     | General Purpose Resistor |
| Element Type      | Thick Film               |
| Package Size Code | 0603                     |

Configuration Features

|                     |   |
|---------------------|---|
| Number of Resistors | 1 |
|---------------------|---|

Electrical Characteristics

|                             |           |
|-----------------------------|-----------|
| Operating Voltage           | 50 V      |
| Resistance Value            | 680 Ω     |
| Power Rating                | .25 W     |
| Resistance Class            | Up to 1kΩ |
| Passive Component Tolerance | 1 %       |

Termination Features

|                                         |        |
|-----------------------------------------|--------|
| Surface Mount Resistor Termination Type | Solder |
| Number of Terminations                  | 2      |

Dimensions

|                |                 |
|----------------|-----------------|
| Product Height | .45 mm[.018 in] |
| Product Length | 1.6 mm[.063 in] |



|               |                |
|---------------|----------------|
| Product Width | .8 mm[.031 in] |
|---------------|----------------|

Usage Conditions

|                         |             |
|-------------------------|-------------|
| Temperature Coefficient | ±100 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: JAN 2025 (247)<br>Candidate List Declared Against: JAN 2025 (247)<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

CRGP0603F680R

680 ohm, Surface Mount General Purpose Resistor, Thick Film, 0603, .25 W, 1 %, ±100 ppm/°C, Solder, 2 Terminations, Neohm CRGP



TE Part # 2-2176328-3  
CRGP 1206 680R 1%

TE Part # 2176326-2  
CRGP 0603 12R 1%

TE Part # 6-2176330-1  
CRGP 2010 1M0 1%

TE Part # 4-2176331-9  
CRGP 2512 100K 1%

TE Part # 5-2176327-4  
CRGP 0805 270K 1%

Also in the Series | [Neohm CRGP](#)

Surface Mount Resistors(420)

Customers Also Bought

TE Part #1-2176340-7  
CRGCQ 0603 470R 5%

TE Part #2-2176326-5  
CRGP 0603 1K0 1%

TE Part #2-2176340-5  
CRGCQ 0603 10K 5%

TE Part #1-2176326-3  
CRGP 0603 100R 1%

TE Part #1-2176341-7  
CRGCQ 0805 220R 1%

TE Part #2176055-1  
RLP73V 2B R010 1% 1K RL

TE Part #2176338-4  
CRGCQ 0402 3R3 5%

TE Part #6-1879499-5  
CRGH2010 5% 470R 1W



Documents

Product Drawings

[CRGP 0603 680R 1%](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2-2176326-3\\_BA.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-2176326-3\\_BA.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-2176326-3\\_BA.3d\\_stp.zip](#)

English

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Datasheets & Catalog Pages

[CRGP Data Sheet](#)

English