



Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **Precision Resistor**

Element Type: **Thin Film**

Package Size Code: **0402**

Power Rating: **.063 W**

Resistance Value: **51.1  $\Omega$**

Features

Industry Standards

|                            |   |
|----------------------------|---|
| Moisture Sensitivity Level | 1 |
|----------------------------|---|

Electrical Characteristics

|                             |                   |
|-----------------------------|-------------------|
| Operating Voltage           | 25 V              |
| Power Rating                | .063 W            |
| Resistance Value            | 51.1 $\Omega$     |
| Resistance Class            | Up to 1k $\Omega$ |
| Passive Component Tolerance | .1 %              |

Product Type Features

|                   |                    |
|-------------------|--------------------|
| Resistor Type     | Precision Resistor |
| Element Type      | Thin Film          |
| Package Size Code | 0402               |

Configuration Features

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

Termination Features

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

Dimensions

|                |                |
|----------------|----------------|
| Product Height | .3 mm[.012 in] |
|----------------|----------------|



|                |               |
|----------------|---------------|
| Product Length | 1 mm[.039 in] |
| Product Width  | .5 mm[.02 in] |

Usage Conditions

|                         |            |
|-------------------------|------------|
| Temperature Coefficient | ±50 ppm/°C |
|-------------------------|------------|

Packaging Features

|                  |                |
|------------------|----------------|
| Packaging Method | Taped & Reeled |
|------------------|----------------|

Other

|                    |           |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
| EU ELV Compliance  | Compliant |

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 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                     | Not reviewed for solder process capability                                                                                      |

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

CPF0402B51R1C1

Surface Mount Precision Resistor, Thin Film, 0402, .063 W, 51.1 ohm, .1 %, ±50 ppm/°C, Solder, 2 Terminations, Height .3 mm [.012 in], Neohm CPF



TE Part # 1-1614959-4  
CPF0805 2M0 0.1% 25PPM 1K RL

TE Part # 9-1879216-1  
CPF 0402 158K 0.1% 25PPM 5K RL

TE Part # 1-1879417-9  
CPF 0603 1M0 0.1% 25PPM 1K RL

TE Part # 1879417-8  
CPF0603 1M0 0.1% 25PPM 5K RL

TE Part # 3-1879216-5  
CPF0402 200K 0.1% 25PPM 1K RL

Also in the Series | Neohm CPF

Surface Mount Resistors(5842)

Customers Also Bought

TE Part #9-1625971-5  
HSA25 R01 10%

TE Part #2337238-3  
TACT MINI GW 5.2X5.2X2 160GF

TE Part #3-2176307-2  
RP 1E 0.1W 26K1 0.1% 25PPM 5K RL

TE Part #7-2176305-3  
RP 1E 0.1W 604R 0.1% 25PPM 5K RL

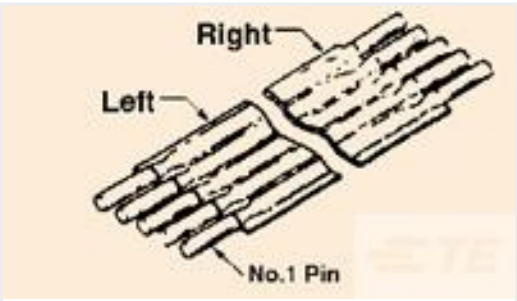
TE Part #1-1879353-9  
RR02 5% 24K AMMO

TE Part #7-1879354-5  
RR03 5% 390R AMMO

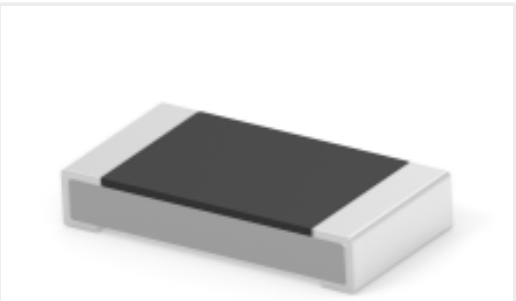
TE Part #7-1879648-1  
H4P 287R 0.5% 100PPM

TE Part #1-830611-0  
LGH 1/2 SNGL MLD END





TE Part #3-1437162-8  
[FSP-12A-11](#)



TE Part #2-2176392-9  
[RQ 1206 261K 0.1% 10PPM 5K RL](#)

Documents

Product Drawings

[CPF0402 51R1 0.1% 50PPM 1K RL](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_4-1879216-7\\_BA.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_4-1879216-7\\_BA.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_4-1879216-7\\_BA.3d\\_stp.zip](#)

English

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

Datasheets & Catalog Pages

[1309350\\_PASSIVE\\_COMPONENT](#)

English

[8-1773459-4\\_POWER\\_FILTERING\\_AND\\_RESISTIVE\\_SOLUTIONS\\_FOR\\_ELEVATORS\\_AND\\_ESCALATORS](#)

English

[CPF-1016](#)

English