



Passive Components > Resistors > Through-Hole Resistors



Resistor Type: **General Purpose Resistor**  
Element Type: **Carbon Film, Thin Film**  
Power Rating: **.25 W**  
Resistance Class: **Up to 1k $\Omega$**   
Resistance Value: **180  $\Omega$**

Features

Product Type Features

|               |                          |
|---------------|--------------------------|
| Resistor Type | General Purpose Resistor |
| Element Type  | Carbon Film, Thin Film   |

Configuration Features

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

Electrical Characteristics

|                             |                   |
|-----------------------------|-------------------|
| Operating Voltage           | 200 V             |
| Power Rating                | .25 W             |
| Resistance Class            | Up to 1k $\Omega$ |
| Resistance Value            | 180 $\Omega$      |
| Passive Component Tolerance | 5 %               |

Body Features

|           |              |
|-----------|--------------|
| Lead Type | Axial-Leaded |
|-----------|--------------|

Termination Features

|                                |        |
|--------------------------------|--------|
| Termination Area Base Material | Copper |
| Number of Terminations         | 2      |

Dimensions

|                              |               |
|------------------------------|---------------|
| Passive Component Dimensions | 3.5 x 1.85 mm |
|------------------------------|---------------|



Usage Conditions

|                             |                  |
|-----------------------------|------------------|
| Operating Temperature Range | -55 - 155 °C     |
| Temperature Coefficient     | -1200 - 0 ppm/°C |

Packaging Features

|                  |             |
|------------------|-------------|
| Packaging Method | Ammo Packed |
|------------------|-------------|

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: JAN 2024 (240)<br>Candidate List Declared Against: JUNE 2023 (235)<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                     | Wave solder capable to 265°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

CFR16J180R

General Purpose Resistor, Carbon Film / Thin Film, .25 W, 180  $\Omega$ , 5 %, -1200 - 0 ppm/°C, Axial-Leaded, Copper Termination, 3.5 x 1.85 mm, Neohm CFR



TE Part # 1623930-3  
CFR25 5% 10K

TE Part # 1623927-8  
CFR16 5% 120R

TE Part # 1623932-8  
CFR50 5% 10K

TE Part # 1623925-2  
CFR100 5% 100R

TE Part # 2-1623929-2  
CFR200 5% 22K

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

[Through-Hole Resistors\(379\)](#)

Customers Also Bought

TE Part # 1-826631-0  
AMPMODU II R/A DR HEADER

TE Part # 4-1625892-1  
3W SM M/OX 5% 330R

TE Part # 1623927-4  
CFR16 5% 10K

TE Part # 1-1623932-6  
CFR50 5% 120R

TE Part # 5-1625890-8  
2W SM M/OX 5% 560R

TE Part # 8-1879026-9  
YR1 0.1% 499K

TE Part # 1337771-2  
50 OHM COAX BNC STR PLUG STR P





Documents

Product Drawings

CFR16 5% 180R

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_1-1623927-9\_BA.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-1623927-9\_BA.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1623927-9\_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

Ceramic Film Fixed Resistors - Type CFR Series - Tyco Electronics Passives

English