



Passive Components > Resistors > Through-Hole Resistors



Resistor Type: **General Purpose Resistor**

Element Type: **Carbon Film, Thin Film**

Power Rating: **.33 W**

Resistance Class: **Up to 1kΩ**

Resistance Value: **82 Ω**

Features

Product Type Features

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

Configuration Features

Number of Resistors	1
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Electrical Characteristics

Operating Voltage	250 V
Power Rating	.33 W
Resistance Class	Up to 1kΩ
Resistance Value	82 Ω
Passive Component Tolerance	5 %

Body Features

Lead Type	Axial-Leaded
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Termination Features

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Termination Area Base Material	Copper
Number of Terminations	2

Dimensions

Passive Component Dimensions	6.8 x 2.5 mm
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Usage Conditions

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

Packaging Features

Packaging Method	Ammo Packed
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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	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) Candidate List Declared Against: JUL 2021 (219) 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

CFR25J82R

General Purpose Resistor, Carbon Film / Thin Film, .33 W, 82 ohm, 5 %, -1200 – 0 ppm /°C, Axial-Leaded, Copper Termination, 6.8 x 2.5 mm, Neohm CFR



TE Part # 1623930-3
CFR25 5% 10K



TE Part # 1623927-8
CFR16 5% 120R



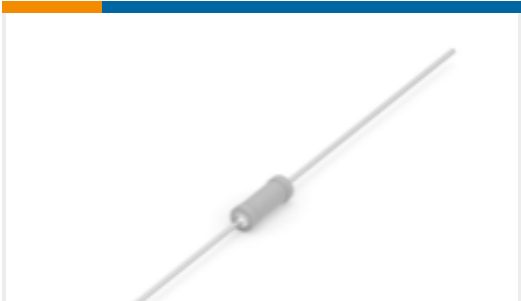
TE Part # 1623932-8
CFR50 5% 10K



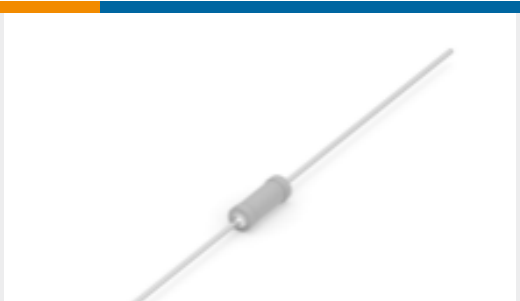
TE Part # 1623925-2
CFR100 5% 100R



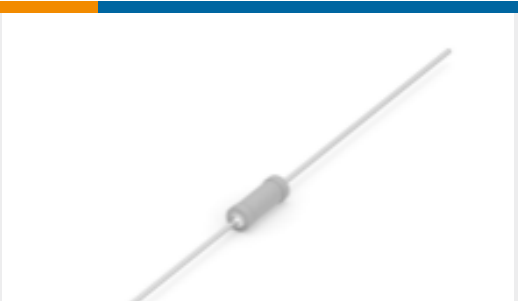
TE Part # 2-1623929-2
CFR200 5% 22K



TE Part # 1-1623931-5
CFR25 5% 390K



TE Part # 5-1623931-4
CFR25 5% 5M6



TE Part # 5-1623931-6
CFR25 5% 5R6



TE Part # 6-1623931-7
CFR25 5% 6M8



TE Part # 7-1623931-8
CFR25 5% 82K



TE Part # 8-1623931-3
CFR25 5% 8M2

Also in the Series | Neohm CFR



Through-Hole Resistors(378)

Customers Also Bought



TE Part #1-1623730-0
BCHE 4 W 22R 5%



TE Part #1-1622825-8
RL73K 3A R27 5% 1K RL



TE Part #4-1879021-3
SMW3 5R6 5%



TE Part #1624009-2
SC30-10-2513-10 1UH AMMO 1000

CFR25J82R

General Purpose Resistor, Carbon Film / Thin Film, .33 W, 82 ohm, 5 %, -1200 – 0 ppm /°C, Axial-Leaded, Copper Termination, 6.8 x 2.5 mm, Neohm CFR



TE Part #1-1623819-4
SBL4 R051 5%

TE Part #1623128-1
CRG0805 1% 18K

TE Part #1623747-9
ER74 18R 5% AMMO PK

TE Part #1624031-1
SC30-10-2535-10 68UH AMMO 1000

TE Part #M7139-350BG-200000
PRESS XDCR M7139-350BG-200000

TE Part #86509-000
FLS801-51 LIQUID LEVEL SENSOR

Documents

Product Drawings

CFR25 5% 82R

English

CAD Files

Customer View Model

ENG_CVM_CVM_7-1623931-9_BA.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_7-1623931-9_BA.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_7-1623931-9_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