



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 1k Ω**

Resistance Value: **820 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 1k Ω
Resistance Value	820 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: JAN 2024 (240) 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

CFR25J820R

General Purpose Resistor, Thin Film / Carbon Film, .33 W, 820 Ω , 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

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

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

Customers Also Bought

TE Part # 8-1879208-1
CPF 0402 22K 0.1% 25PPM 1K RL

TE Part # 2008563-1
Connector,1 Pos SMT Poke-In

Documents

Product Drawings

[CFR25 5% 820R](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_7-1623931-7_BA.2d_dxf.zip](#)

CFR25J820R

General Purpose Resistor, Thin Film / Carbon Film, .33 W, 820 Ω , 5 %, -1200 - 0 ppm/°C, Axial-Leaded, Copper Termination, 6.8 x 2.5 mm, Neohm CFR



English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_7-1623931-7_BA.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_7-1623931-7_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

[Ceramic Film Fixed Resistors - Type CFR Series - Tyco Electronics Passives](#)

English