



Passive Components > Resistors > Through-Hole Resistors



Resistor Type: **Precision Resistor**

Element Type: **Metal Film**

Power Rating: **.5 W**

Resistance Class: **1k $\Omega$  - 1M $\Omega$**

Resistance Value: **20K  $\Omega$**

Features

Product Type Features

Resistor Type	Precision Resistor
Element Type	Metal Film

Configuration Features

Number of Resistors	1
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Electrical Characteristics

Operating Voltage	300 V
Power Rating	.5 W
Resistance Class	1k $\Omega$ - 1M $\Omega$
Resistance Value	20K $\Omega$
Passive Component Tolerance	.1 %

Body Features

Lead Type	Axial-Leaded
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Termination Features

Termination Area Base Material	Copper
Number of Terminations	2

Dimensions

Passive Component Dimensions	10.2 x 4 mm
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Usage Conditions

Operating Temperature Range	-55 - 125 $^{\circ}\text{C}$
Temperature Coefficient	$\pm 5$ ppm/ $^{\circ}\text{C}$

Packaging Features

Packaging Method	Bulk
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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: JUNE 2023 (235) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 265 $^{\circ}\text{C}$

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

UPF50B20KV

Precision Resistor, Metal Film, .5 W, 20K  $\Omega$ , .1 %,  $\pm 5$  ppm/ $^{\circ}$ C, Axial-Leaded, Copper Termination, 10.2 x 4 mm, Bulk, 2 Termination, Holsworthy UPF





TE Part # 2176162-7  
UPF25 0.1% 5PPM 250R



TE Part # 1-2176163-5  
UPF50 0.1% 5PPM 500R



TE Part # 2176162-9  
UPF25 0.1% 5PPM 50R



TE Part # 2176163-3  
UPF50 0.1% 5PPM 10K



TE Part # 1-2176163-0  
UPF50 0.1% 5PPM 250R

Also in the Series | [Holsworthy UPF](#)



[Through-Hole Resistors\(28\)](#)

Customers Also Bought



TE Part # 3-640707-1  
SL 156 RECEPTACLE LP

Document

[Product Drawings](#)  
[UPF50 0.1% 5PPM 20K](#)

English

[CAD Files](#)  
[3D PDF](#)

3D



Customer View Model

[ENG\\_CVM\\_CVM\\_2176163-8\\_BA.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2176163-8\\_BA.3d\\_igs.zip](#)

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Customer View Model

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Datasheets & Catalog Pages

[High Precision Metal Film Leaded Resistor Type UPF Series](#)

English