



Passive Components > Resistors > Through-Hole Resistors



Resistor Type: **Precision Resistor**

Passive Component Dimensions: **10.2 x 4 mm**

Number of Terminations: **2**

Packaging Method: **Bulk**

Passive Component Tolerance: **.1 %**

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
Passive Component Tolerance	.1 %
Resistance Class	Up to 1kΩ
Resistance Value	250 Ω
Power Rating	.5 W

Body Features

Lead Type	Axial-Leaded
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Termination Features

Number of Terminations	2
Termination Area Base Material	Copper

Dimensions

Passive Component Dimensions	10.2 x 4 mm
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Usage Conditions

Operating Temperature Range	-55 – 125 °C
Temperature Coefficient	±5 ppm/°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: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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

UPF50B250RV

250 Ω, Metal Film, Precision Resistor, .1 %, 10.2 x 4 mm, 2 Termination, Bulk, .5 W, ±5 ppm/°C, Copper Termination, Axial-Leaded, Holsworthy UPF



 <p>TE Part # 2176162-5 UPF25 0.1% 5PPM 120R</p>	 <p>TE Part # 2176162-7 UPF25 0.1% 5PPM 250R</p>	 <p>TE Part # 2176163-2 UPF50 0.1% 5PPM 100R</p>	 <p>TE Part # 2176163-4 UPF50 0.1% 5PPM 10R</p>
 <p>TE Part # 2176163-6 UPF50 0.1% 5PPM 1K0</p>	 <p>TE Part # 2176163-9 UPF50 0.1% 5PPM 20R</p>	 <p>TE Part # 1-2176163-5 UPF50 0.1% 5PPM 500R</p>	 <p>TE Part # 2176162-1 UPF25 0.1% 5PPM 100K</p>
 <p>TE Part # 2176162-2 UPF25 0.1% 5PPM 100R</p>	 <p>TE Part # 2176162-3 UPF25 0.1% 5PPM 10K</p>	 <p>TE Part # 2176162-4 UPF25 0.1% 5PPM 10R</p>	 <p>TE Part # 2176162-6 UPF25 0.1% 5PPM 1K0</p>
 <p>TE Part # 2176162-8 UPF25 0.1% 5PPM 350R</p>	 <p>TE Part # 2176162-9 UPF25 0.1% 5PPM 50R</p>	 <p>TE Part # 1-2176162-0 UPF25 0.1% 5PPM 5K0</p>	 <p>TE Part # 2176163-3 UPF50 0.1% 5PPM 10K</p>
 <p>TE Part # 2176163-5 UPF50 0.1% 5PPM 120R</p>	 <p>TE Part # 2176163-7 UPF50 0.1% 5PPM 200R</p>	 <p>TE Part # 2176163-8 UPF50 0.1% 5PPM 20K</p>	 <p>TE Part # 1-2176163-1 UPF50 0.1% 5PPM 2K0</p>

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

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Through-Hole Resistors(28)

Customers Also Bought



TE Part #34541  
PIDG SPD 22-16 COMM 22-18MIL 6



TE Part #1-284517-0  
10P TERMIBLOK HDR DIR POL



TE Part #DT04-08PA-P021  
REC, 8P, GRY, BUSBAR 1X8, NICKEL, A



TE Part #284517-3  
3P TERMIBLOK HDR DIR POLAR



TE Part #144176-E  
ERBIC BUS B BUS-SYSTEM SYS PROF  
HO SC CU



TE Part #1SNA114994R0700  
FEM62



TE Part #374Z-05180  
Speed sen DSS 1610.08 AHV

Documents

Product Drawings

UPF50 0.1% 5PPM 250R

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-2176163-0\_BA.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-2176163-0\_BA.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-2176163-0\_BA.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

UPF50B250RV

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



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**Datasheets & Catalog Pages**

**High Precision Metal Film Leaded Resistor Type UPF Series**

English