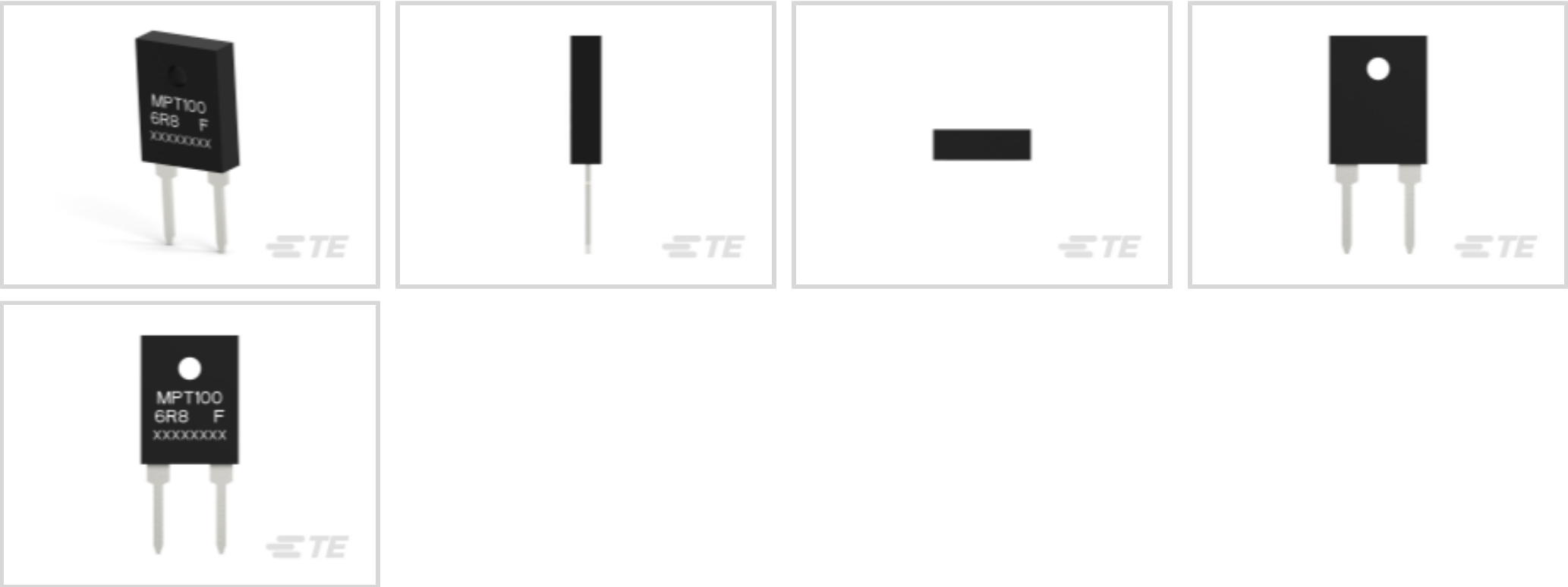




Passive Components > Resistors > Through-Hole Resistors



Resistor Type: **Power Resistor**
Element Type: **Thick Film**
Package Size Code: **TO247**
Power Rating: **100 W**
Resistance Class: **1k Ω - 1M Ω**

Features

Product Type Features

Resistor Type	Power Resistor
Element Type	Thick Film
Package Size Code	TO247

Configuration Features

Number of Resistors	1
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Electrical Characteristics

Operating Voltage	700 V
Power Rating	100 W
Resistance Class	1k Ω - 1M Ω
Resistance Value	6.8K Ω
Passive Component Tolerance	1 %

Body Features

Lead Type	Radial-Leaded
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Termination Features

Termination Area Base Material	Copper
Number of Terminations	2

Dimensions

Passive Component Dimensions	15.75 x 20.7 x 4.95 mm
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Usage Conditions

Temperature Coefficient	± 50 ppm/ $^{\circ}\text{C}$
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Packaging Features

Packaging Method	Tube
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Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	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	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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

MPT100C6K8F

Power Resistor, Thick Film, TO247, 100 W, 6.8K Ω , 1 %, ± 50 ppm/ $^{\circ}\text{C}$, Radial-Leaded, Copper Termination, 15.75 x 20.7 x 4.95 mm, Tube, CGS MPT





TE Part # 3-2176429-0
[MPT100 6K8 5%](#)



TE Part # 7-2176429-6
[MPT100 5K6 1%](#)

Also in the Series | [CGS MPT](#)



[Through-Hole Resistors\(172\)](#)

Customers Also Bought



TE Part # 1-487547-1
[FFC,RCPT CONTACT,.050" CNTRLIN](#)



TE Part # ZPF000000000006142
[951-00 R 8-33 P 50](#)

Documents

Product Drawings

[MPT100 6K8 1%](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_7-2176429-7_BA.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_7-2176429-7_BA.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_7-2176429-7_BA.3d_stp.zip](#)

MPT100C6K8F

Power Resistor, Thick Film, TO247, 100 W, 6.8K Ω , 1 %, ± 50 ppm/ $^{\circ}\text{C}$, Radial-Leaded, Copper Termination, 15.75 x 20.7 x 4.95 mm, Tube, CGS MPT



English

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Datasheets & Catalog Pages

MPT-0518

English