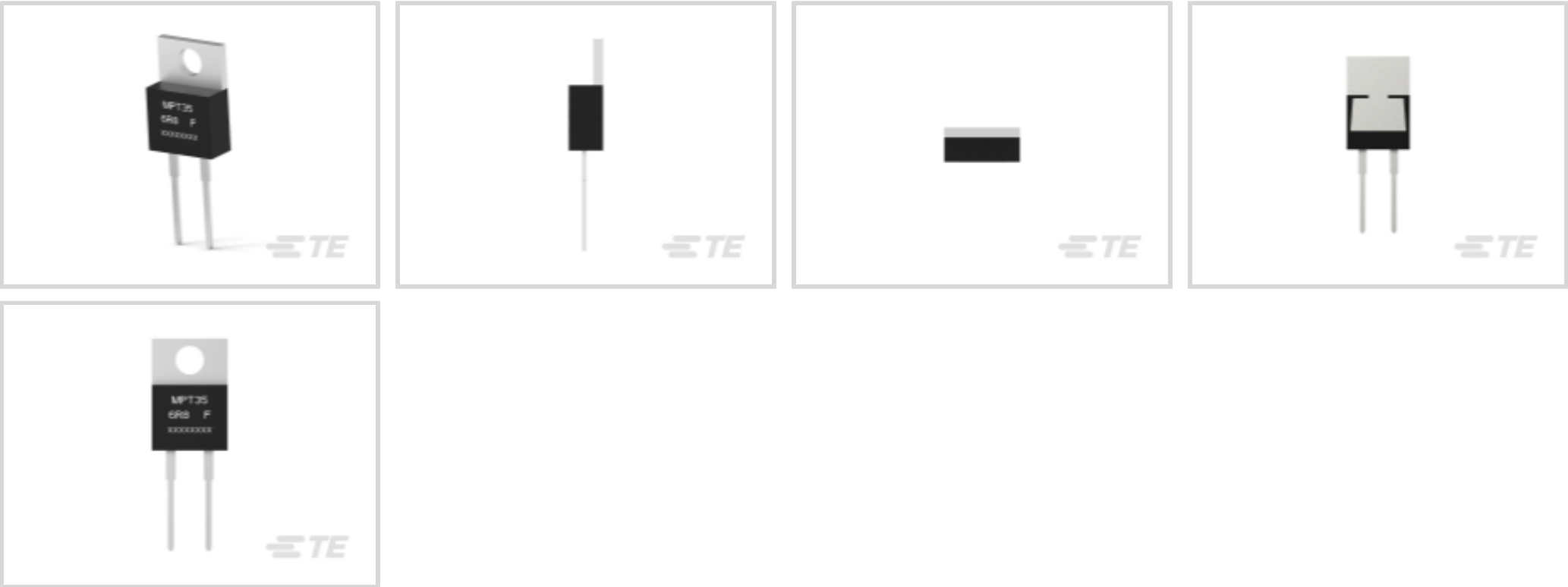




Passive Components > Resistors > Through-Hole Resistors



Resistor Type: **Power Resistor**  
Element Type: **Thick Film**  
Package Size Code: **TO220**  
Power Rating: **35 W**  
Resistance Class: **Up to 1k $\Omega$**

Features

Product Type Features

Resistor Type	Power Resistor
Element Type	Thick Film
Package Size Code	TO220

Configuration Features

Number of Resistors	1
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Electrical Characteristics

Operating Voltage	350 V
Power Rating	35 W
Resistance Class	Up to 1k $\Omega$
Resistance Value	12 $\Omega$
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	10.16 x 15 x 4.6 mm
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Usage Conditions

Temperature Coefficient	$\pm 50$ 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: JAN 2024 (240) SVHC > Threshold: Pb (92.5% in Component Part) <b>Article Safe Usage Statements:</b> Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
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

TE Part # 4-2176430-6

MPT35 15R 1%

Also in the Series | CGS MPT

Through-Hole Resistors(172)

Customers Also Bought

TE Part # 178803-5

DYNAMIC D3100D TAB HSG PM 10P

TE Part # 5177983-5

0.8FH,R05H.5,120,08/Sn,TU

TE Part # 177909-1

POWER DBL LOCK CAP HSG P/M 6P

TE Part # 177900-1

POWER DBL LOCK PLUG HSG 4P

TE Part # 177918-1

POWER DBL LOCK PLATE 2P

TE Part # 6-1618241-1

K81C345=RELAY, VACUUM, SPDT

TE Part # 171825-3

POST HEADER ASSY EI SRS 3POS

TE Part # 177907-1

POWER DBL LOCK CAP P/M 3P

MPT35C12RF

Power Resistor, Thick Film, TO220, 35 W, 12  $\Omega$ , 1 %,  $\pm 50$  ppm/ $^{\circ}\text{C}$ , Radial-Leaded, Copper Termination, 10.16 x 15 x 4.6 mm, Tube, 2 Termination, CGS MPT



Documents

Product Drawings

MPT35 12R 1%

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_4-2176430-5\_BA.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_4-2176430-5\_BA.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_4-2176430-5\_BA.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

MPT-0518

English