



Passive Components > Resistors > Through-Hole Resistors



Resistor Type: **Power Resistor**

Passive Component Dimensions: **12.7 x 2.54 x 25.4 mm**

Number of Terminations: **2**

Packaging Method: **Loose Piece - Tray**

Passive Component Tolerance: **5 %**

Features

Product Type Features

Product Type	Fixed Resistor
Resistor Type	Power Resistor
Element Type	Thick Film

Configuration Features

Number of Resistors	1
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Electrical Characteristics

Voltage Rating	300 V
Passive Component Tolerance	5 %
Resistance Class	Up to 1kΩ
Resistance Value	500 Ω
Power Rating	5 W

Body Features

Passive Component Lead Type	Radial-Leaded
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Termination Features

Number of Terminations	2
Passive Component Termination Material Type	Tinned Copper Leads

Dimensions

Passive Component Dimensions	12.7 x 2.54 x 25.4 mm
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Usage Conditions

Operating Temperature Range	-55 – 125 $^{\circ}$ C
Temperature Coefficient	$\pm$ 100 ppm/ $^{\circ}$ C

Packaging Features

Packaging Method	Loose Piece - Tray
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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: JUNE 2023 (235) 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 $^{\circ}$ 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

MPC52501J

500 Ω, Thick Film, Power Resistor, 5 %, 12.7 x 2.54 x 25.4 mm, 2 Termination, Loose Piece - Tray, 5 W, ±100 ppm/°C, CGS MPC



TE Part # 1623776-3
MPC5 1K0 5%

TE Part # 1623776-9
MPC5 200R 5%

TE Part # 1-1623776-5
MPC5 50R 5%

TE Part # 1623776-1
MPC5 10R 5%

TE Part # 1623776-8
MPC5 20R 5%

TE Part # 1623775-8
MPC10 1K0 5%

TE Part # 1623775-3
MPC10 1R0 5%

TE Part # 1623776-4
MPC5 10K 5%

TE Part # 1-1623776-0
MPC5 2K0 5%

TE Part # 1-1623776-1
MPC5 20K 5%

TE Part # 1-1623776-7
MPC5 5K0 5%

TE Part # 1-1623776-8
MPC5 50K 5%

TE Part # 1-1623776-9
MPC5 5R0 5%

TE Part # 1623776-6
MPC5 1R0 5%

TE Part # 1623776-2
MPC5 100R 5%

TE Part # 1623775-2
MPC10 10K 5%

TE Part # 1-1623775-4
MPC10 50K 5%

TE Part # 1623775-6
MPC10 5R0 5%

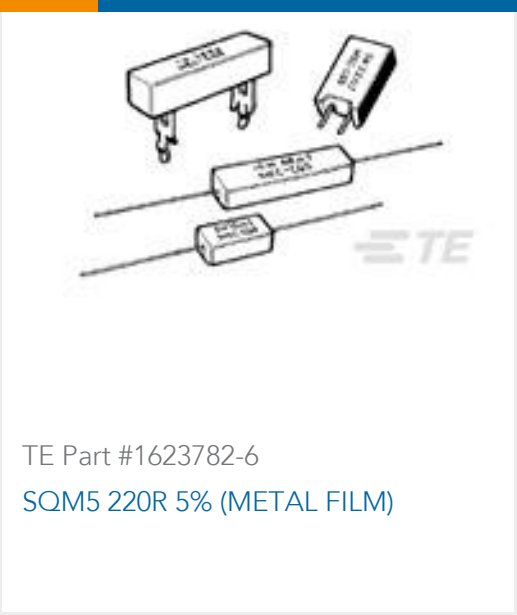
TE Part # 1623775-1
MPC10 10R 5%

TE Part # 1-1623775-8
MPC10 1R0 1%

Also in the Series | CGS MPC



Customers Also Bought



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-1623776-6_BA.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-1623776-6_BA.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-1623776-6_BA.3d_stp.zip

English

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

Datasheets & Catalog Pages

4-1773460-6_RESISTIVE_SOLUTIONS_RAIL

English

MPC52501J

500 Ω , Thick Film, Power Resistor, 5 %, 12.7 x 2.54 x 25.4 mm, 2 Termination, Loose
Piece - Tray, 5 W, ± 100 ppm/ $^{\circ}\text{C}$, CGS MPC



[1309350_PASSIVE_COMPONENT](#)

English

[High Power Resistors - Type MPC Series](#)

English

[8-1773459-4_POWER_FILTERING_AND_RESISTIVE_SOLUTIONS_FOR_ELEVATORS_AND_ESCALATORS](#)

English