



Passive Components > Resistors > Through-Hole Resistors



Resistor Type: **Power Resistor**

Element Type: **Thick Film**

Power Rating: **5 W**

Resistance Class: **Up to 1kΩ**

Resistance Value: **50 Ω**

Features

Product Type Features

Resistor Type	Power Resistor
Element Type	Thick Film

Configuration Features

Number of Resistors	1
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Electrical Characteristics

Operating Voltage	300 V
Power Rating	5 W
Resistance Class	Up to 1kΩ
Resistance Value	50 Ω
Passive Component Tolerance	5 %

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	12.7 x 2.54 x 25.4 mm
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Usage Conditions

Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]
Temperature Coefficient	±100 ppm/°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	有害物质含量超出标准 Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 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

MPC52500J

50 ohm, Thick Film, Power Resistor, 5 %, 5 W, ±100 ppm/°C, Radial-Leaded, Copper Termination, 12.7 x 2.54 x 25.4 mm, Loose Piece - Tray, CGS MPC



TE Part # 1-1623776-6
MPC5 500R 5%

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

TE Part # 1623775-2
MPC10 10K 5%

TE Part # 1623775-8
MPC10 1K0 5%

TE Part # 1623775-3
MPC10 1R0 5%

TE Part # 1623775-1
MPC10 10R 5%

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

TE Part # 1623776-2
MPC5 100R 5%

TE Part # 1623776-6
MPC5 1R0 5%

TE Part # 1623775-6
MPC10 5R0 5%

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

TE Part # 1-1623775-2
MPC10 500R 5%

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

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

TE Part # 1623777-6
MPC7 200R 5%

TE Part # 1-1623775-0
MPC10 2K0 5%

TE Part # 1623775-9
MPC10 200R 5%

TE Part # 1623776-8
MPC5 20R 5%

TE Part # 2-1623776-3
MPC5 39R 5%

TE Part # 1623776-1
MPC5 10R 5%

Also in the Series | CGS MPC



Through-Hole Resistors(28)

Customers Also Bought



TE Part #5913834003
LSTT-6.4-0-SP



TE Part #800337-SF
FN284-4-06



TE Part #ZPF000000000000345
006-0912-20 A



TE Part #474034-E
DRCBUG B 2,54 10 * CSI 112 E012
ADV J 2



TE Part #5059070006
TRSA-1014/C/1/4



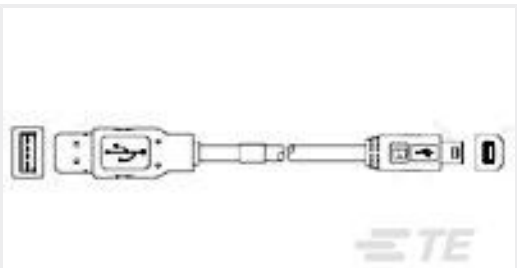
TE Part #154807-E
SMCB 50 F AB VV 7-13 CL * H007 137
E002



TE Part #205559-2
RECEPT ASSY,25 POSN,AMPLIMITE



TE Part #1-640456-4
14P MTA100 HDR ASSY F/L SQ STR



TE Part #1487586-3
USB, A-B, 28/28, WHITE, 0.16M



TE Part #1676223-2
RN 0805 1K15 0.1% 10PPM 1KRL

Documents

Product Drawings

MPC5 50R 5%

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-1623776-5_BA.2d_dxf.zip

MPC52500J

50 ohm, Thick Film, Power Resistor, 5 %, 5 W, ±100 ppm/°C, Radial-Leaded, Copper Termination, 12.7 x 2.54 x 25.4 mm, Loose Piece - Tray, CGS MPC



English

Customer View Model

[ENG_CVM_CVM_1-1623776-5_BA.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-1623776-5_BA.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[4-1773460-6_RESISTIVE_SOLUTIONS_RAIL](#)

English

[1309350_PASSIVE_COMPONENT](#)

English

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

English

[8-1773459-4_POWER_FILTERING_AND_RESISTIVE_SOLUTIONS_FOR_ELEVATORS_AND_ESCALATORS](#)

English