

# SMA-A0207BTNT680R ✓ ACTIVE

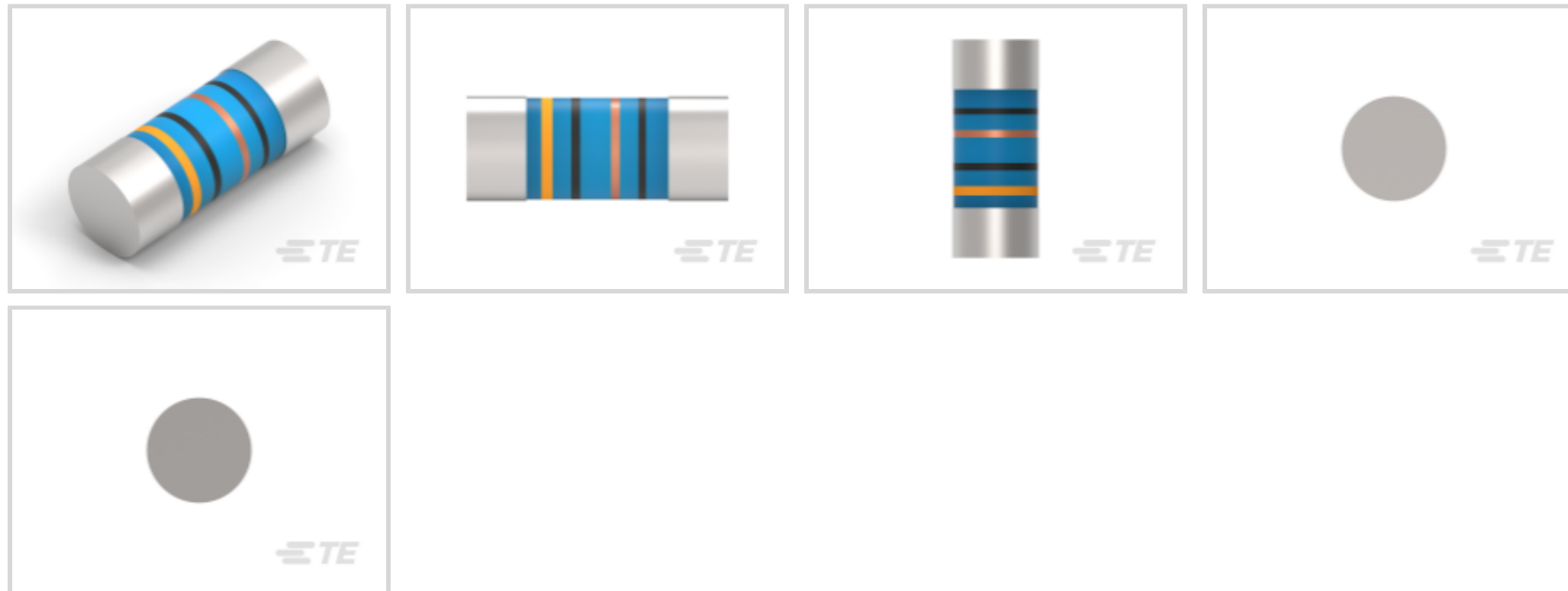
TE Internal #: 1-2176316-1

Surface Mount Resistors, Precision Resistor, 2 Termination, 0207, Taped & Reeled, .1 %, Thin Film, Resistance Class Up to 1k $\Omega$ , 680  $\Omega$ , 1 W,  $\pm 15$  ppm/ $^{\circ}\text{C}$

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Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **Precision Resistor**

Number of Terminations: **2**

Package Size Code: **0207**

Packaging Method: **Taped & Reeled**

Passive Component Tolerance: **.1 %**

## Features

### Product Type Features

Product Type	Fixed Resistor
Resistor Type	Precision Resistor
Package Size Code	0207
Element Type	Thin Film

### Configuration Features

Number of Resistors	1
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### Electrical Characteristics

Passive Component Tolerance	.1 %
Resistance Class	Up to 1k $\Omega$
Resistance Value	680 $\Omega$
Power Rating	1 W

### Termination Features

Number of Terminations	2
Surface Mount Resistor Termination Type	Metal Electrode Leadless Face (MELF)

### Dimensions

Passive Component Dimensions	5.9 x 2.2 mm
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### Usage Conditions

Operating Temperature Range	-55 – 155 $^{\circ}\text{C}$
Temperature Coefficient	$\pm 15$ ppm/ $^{\circ}\text{C}$

### Packaging Features

Packaging Method	Taped & Reeled
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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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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	Reflow solder capable to 260 $^{\circ}\text{C}$

#### 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 # 6-2176314-9  
MELF SMA-A 10R 1% 50PPM 0102 0.3 W



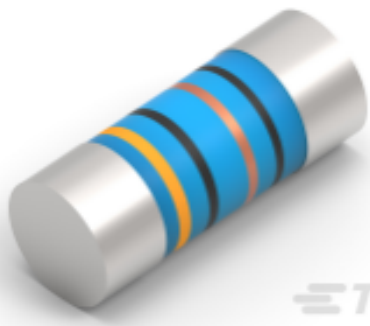
TE Part # 3-2176315-2  
MELF SMA\_A 39K 0.1% 15PPM 0204 0.4W



TE Part # 2176316-5  
MELF SMA\_A 220R 0.1% 15PPM 0207 1W



TE Part # 9-2176315-8  
MELF SMA-A 1M0 1% 50PPM 0204 0.4 W



TE Part # 9-2176316-4  
MELF SMA-A 330K 1% 50PPM 0207 1W

### Customers Also Bought



TE Part #2-1622820-6  
3520 22K 5%



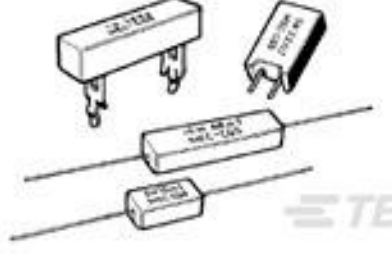
TE Part #1676292-2  
RN 0805 2K61 0.1% 10PPM 1KRL



TE Part #1676277-2  
RN 0805 28K7 0.1% 10PPM 1KRL



TE Part #6-1625890-8  
2W SM M/OX 5% 6R8



TE Part #1-1623788-7  
SQM5 68R 5% (WIRE)



TE Part #4-2176374-5  
RQ 0805 309R 0.1% 10PPM 1K RL



TE Part #9-2176375-0  
RQ 0805 9K76 0.1% 10PPM 1K RL

### Documents

#### Product Drawings

[MELF SMA\\_A 680R 0.1% 15PPM 0207 1W](#)

English

#### CAD Files

[3D PDF](#)

[3D](#)

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_1-2176316-1\\_BA.2d\\_dxf.zip](#)



English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_1-2176316-1\\_BA.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_1-2176316-1\\_BA.3d\\_stp.zip](#)

English

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**Datasheets & Catalog Pages**

[SMA-A-1017](#)

English

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**Product Environmental Compliance**

[Product Compliance](#)

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