# SMA-A0207BTNT6K8 ✔ ACTIVE

Neohm | Neohm SMA-A

TE Internal #: 2-2176316-3

Precision Resistor, Thin Film, 0207, 1 W, 6.8K Ω, .1 %, ±15 ppm/°C, Metal Electrode Leadless Face (MELF), 2 Termination, Neohm SMA-A

View on TE.com >

Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **Precision Resistor**

Element Type: **Thin Film**

Package Size Code: **0207**

Power Rating: **1 W**

Resistance Value: **6.8K Ω**

## Features

### Product Type Features

| | |
|---|---|
| Resistor Type | Precision Resistor |
| Element Type | Thin Film |
| Package Size Code | 0207 |

### Configuration Features

| | |
|---|---|
| Number of Resistors | 1 |

### Electrical Characteristics

| | |
|---|---|
| Power Rating | 1 W |
| Resistance Value | 6.8K Ω |
| Resistance Class | 1kΩ - 1MΩ |
| Passive Component Tolerance | .1 % |

### Termination Features

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

## Dimensions

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|---|---|
| Product Diameter | 2.2 mm[.087 in] |
| Product Length | 5.9 mm[.232 in] |

## Usage Conditions

| | |
|---|---|
| Operating Temperature Range | -55 - 155 °C |
| Temperature Coefficient | ±15 ppm/°C |

## Packaging Features

| | |
|---|---|
| Packaging Method | Taped & Reeled |

## Product Compliance

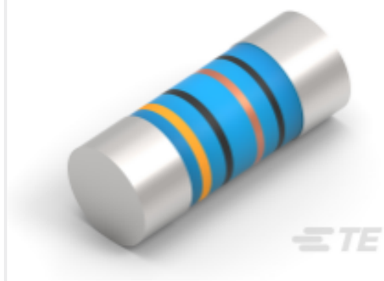
For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| 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: JAN 2024 (240)<br>Candidate List Declared Against: JUNE 2023 (235)<br>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°C |

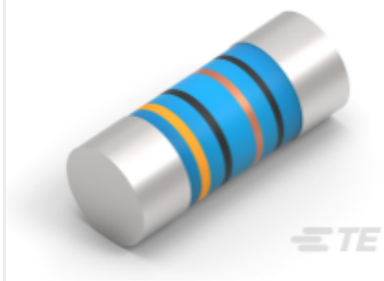
Product Compliance Disclaimer

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

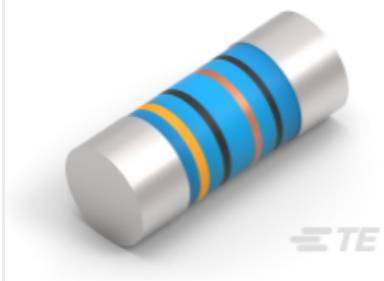
# Compatible Parts



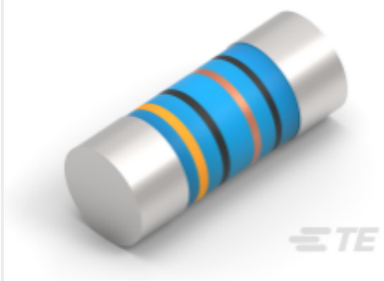
TE Part # 6-2176314-9
MELF SMA-A 10R 1% 50PPM 0102 0.3 W



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

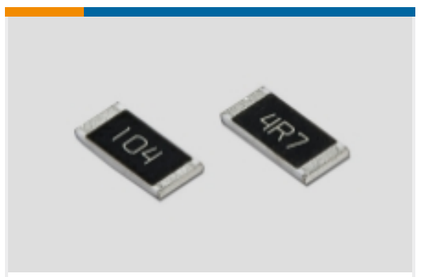


TE Part # 9-2176315-8
MELF SMA-A 1M0 1% 50PPM 0204 0.4 W



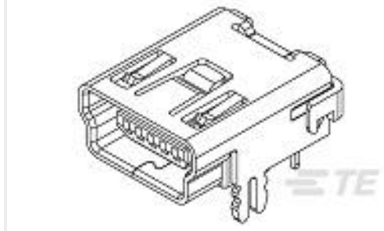
TE Part # 9-2176316-4
MELF SMA-A 330K 1% 50PPM 0207 1W

## Also in the Series | Neohm SMA-A

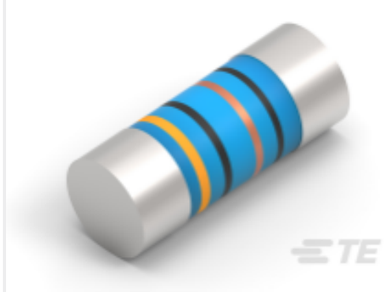



Surface Mount Resistors(384)

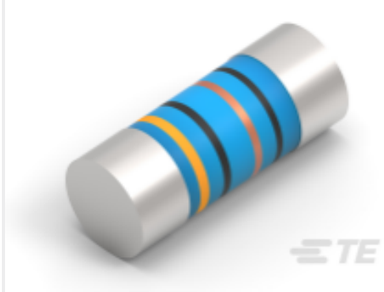
## Customers Also Bought



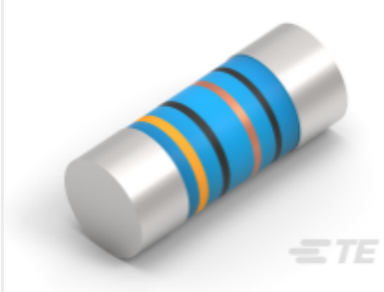
TE Part # 2172034-1
MINI USB B, RCPT, R/A, T/H, PBT, Tray



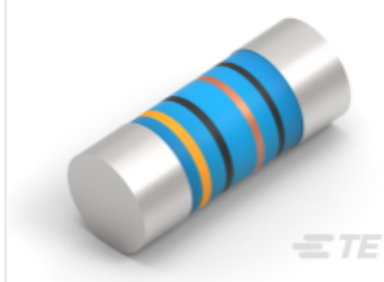
TE Part # 3-2176315-7
MELF SMA_A 100K 0.1% 15PPM 0204 0.4W



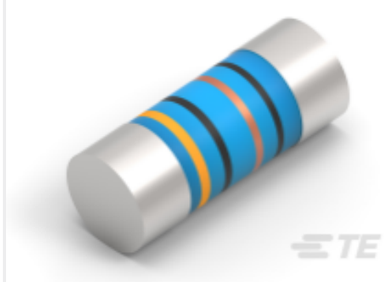
TE Part # 2176315-1
MELF SMA_A 100R 0.1% 15PPM 0204 0.4W



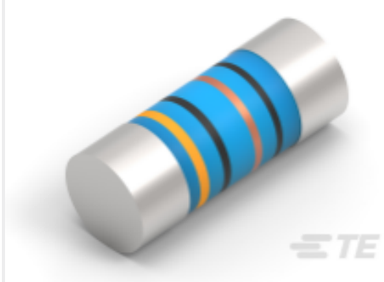
TE Part # 2176315-3
MELF SMA_A 150R 0.1% 15PPM 0204 0.4W



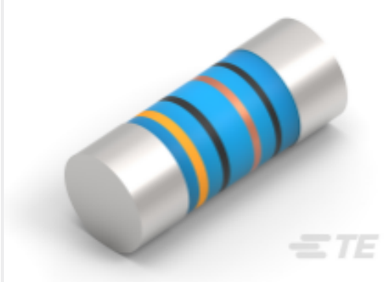
TE Part # 2-2176315-0
MELF SMA_A 3K9 0.1% 15PPM 0204 0.4W



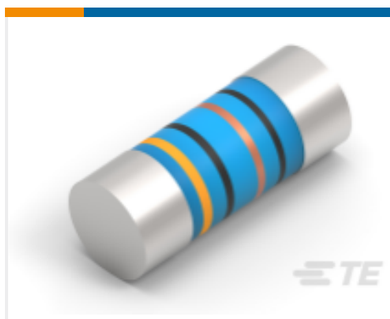
TE Part # 1-2176315-0
MELF SMA_A 560R 0.1% 15PPM 0204 0.4W



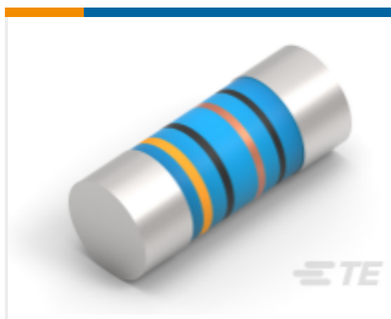
TE Part # 2-2176315-2
MELF SMA_A 5K6 0.1% 15PPM 0204 0.4W



TE Part # 2-2176315-3
MELF SMA_A 6K8 0.1% 15PPM 0204 0.4W



TE Part # 1-2176315-2
MELF SMA_A 820R 0.1% 15PPM 0204 0.4W



TE Part # 1-2176316-8
MELF SMA_A 2K7 0.1% 15PPM 0207 1W

# Documents

## Product Drawings

MELF SMA_A 6K8 0.1% 15PPM 0207 1W

English

## CAD Files

3D PDF

3D

### Customer View Model

ENG_CVM_CVM_2-2176316-3_BA.2d_dxf.zip

English

### Customer View Model

ENG_CVM_CVM_2-2176316-3_BA.3d_igs.zip

English

### Customer View Model

ENG_CVM_CVM_2-2176316-3_BA.3d_stp.zip

English

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## Datasheets & Catalog Pages

SMA-A-1017

English