# SMA-A0102FTDL100R ✔ ACTIVE

NEOHM | NEOHM SMA-A

TE Internal #: 3-2176314-5

100 ohm, Thin Film, Precision Resistor, 1 %, 0102, .3 W, ±50 ppm/°C, Metal Electrode Leadless Face (MELF), 2 Terminations, NEOHM SMA-A

View on TE.com >

Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **Precision Resistor**

Element Type: **Thin Film**

Package Size Code: **0102**

Power Rating: **.3 W**

Resistance Value: **100 Ω**

## Features

### Product Type Features

| | |
|---|---|
| Resistor Type | Precision Resistor |
| Element Type | Thin Film |
| Package Size Code | 0102 |

### Configuration Features

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

### Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 200 V |
| Power Rating | .3 W |
| Resistance Value | 100 Ω |
| Resistance Class | Up to 1kΩ |
| Passive Component Tolerance | 1 % |

### Termination Features

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

## Dimensions

| | |
|---|---|
| Product Diameter | 1.1 mm[.043 in] |
| Product Length | 2.2 mm[.087 in] |

## Usage Conditions

| | |
|---|---|
| Operating Temperature Range | -55 – 155 °C[-67 – 311 °F] |
| Temperature Coefficient | ±50 ppm/°C |

## Packaging Features

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

## Product Compliance

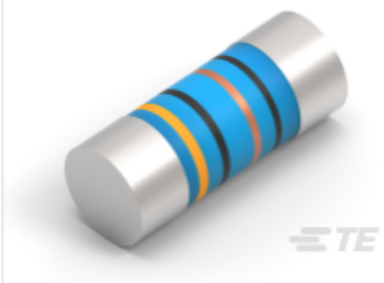
For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant |
| EU ELV Directive 2000/53/EC | Compliant |
| China RoHS 2 Directive MIIT Order No 32, 2016 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<br>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 | Reflow solder capable to 260°C |

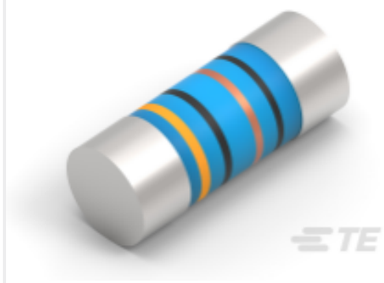
Product Compliance Disclaimer

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

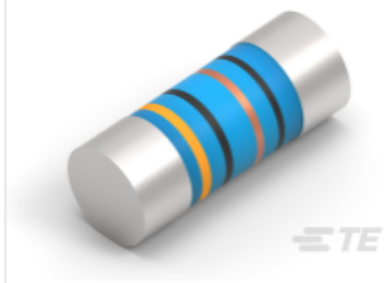
# Compatible Parts



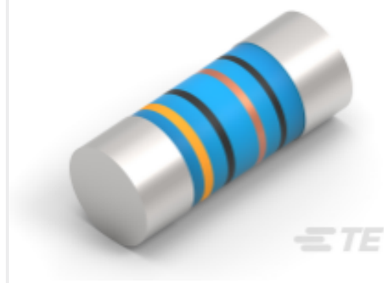
TE Part # 9-2176316-4
MELF SMA-A 330K 1% 50PPM 0207 1W



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

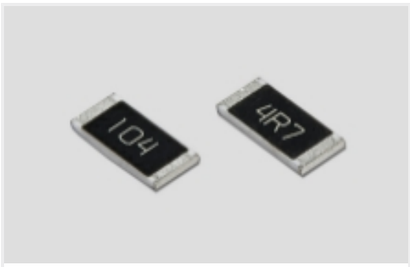


TE Part # 6-2176314-9
MELF SMA-A 10R 1% 50PPM 0102 0.3 W



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

## Also in the Series | NEOHM SMA-A

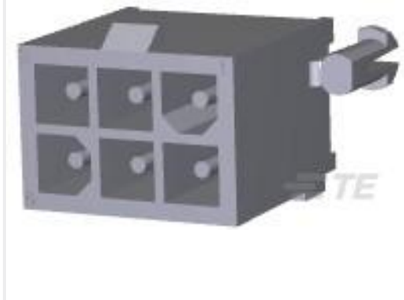



Surface Mount Resistors(99)

## Customers Also Bought



TE Part #194781-E
M12 FEMALE, A CODE, 5P, 17MM SMT



TE Part #1-770875-0
06P MINI UMNL HDR ASSY SN




TE Part #1676480-3
CRG0402 1% 10K




TE Part #2-1676480-6
CRG0402 1% 1K5




TE Part #9-1676480-2
CRG0402 1% 82K



TE Part #2-1879354-5
RR03 5% 3R3 AMMO



TE Part #1982295-6
ELCON MINI 2P RA HEADER,GOLD,W/O CODING




TE Part #3-2176328-3
CRGP 1206 4K7 1%



TE Part #3-2176337-8
CRGCQ 0402 12K 1%



TE Part #2327672-1
RECEPT ASSY, RA, 56 POS, SLIVER 2.0

## Documents

### Product Drawings

MELF SMA_A 100R 1% 50PPM 0102 0.3W

English

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_3-2176314-5_BA.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_3-2176314-5_BA.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_3-2176314-5_BA.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

### Datasheets & Catalog Pages

SMA-A-1017

English