

SMA-A0102BTNL1K0

✓ ACTIVE

Neohm | Neohm SMA-A

TE Internal #: 1-2176314-3

1K  $\Omega$ , Thin Film, Precision Resistor, .1 %, 2 Termination, 0102,  
Taped & Reeled, .3 W,  $\pm 15$  ppm/ $^{\circ}\text{C}$ , Metal Electrode Leadless Face  
(MELF), Neohm SMA-A

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Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **Precision Resistor**  
Number of Terminations: **2**  
Package Size Code: **0102**  
Packaging Method: **Taped & Reeled**  
Passive Component Tolerance: **.1 %**

Features

Product Type Features

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

Configuration Features

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

Electrical Characteristics

|                             |                           |
|-----------------------------|---------------------------|
| Voltage Rating              | 200 V                     |
| Passive Component Tolerance | .1 %                      |
| Resistance Class            | 1k $\Omega$ – 1M $\Omega$ |
| Resistance Value            | 1K $\Omega$               |
| Power Rating                | .3 W                      |

Termination Features

|                        |   |
|------------------------|---|
| Number of Terminations | 2 |
|------------------------|---|

|                                         |                                      |
|-----------------------------------------|--------------------------------------|
| Surface Mount Resistor Termination Type | Metal Electrode Leadless Face (MELF) |
|-----------------------------------------|--------------------------------------|

Dimensions

|                              |              |
|------------------------------|--------------|
| Passive Component Dimensions | 2.2 x 1.1 mm |
|------------------------------|--------------|

Usage Conditions

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

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: JUNE 2023 (235)<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 $^{\circ}\text{C}$                                                                                 |

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

SMA-A0102BTNL1K0

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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 #185226-1  
Signal Header

TE Part #1734595-3  
AMP HPI 1.0 mm Headers

TE Part #2176314-3  
MELF SMA\_A 150R 0.1% 15PPM 0102 0.3W

TE Part #1-2176314-5  
MELF SMA\_A 1K5 0.1% 15PPM 0102 0.3W

TE Part #9-2176314-5  
MELF SMA-A 1M0 1% 50PPM 0102 0.3 W

TE Part #130017  
SOLIS R 22-16 5MM

TE Part #963205-1  
SEAL



Documents

Product Drawings

MELF SMA\_A 1K0 0.1% 15PPM 0102 0.3W

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-2176314-3\_BA.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-2176314-3\_BA.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-2176314-3\_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