

# SMA-A0102BTN6K8 ✓ ACTIVE

Neohm | Neohm SMA-A

TE Internal #: 2-2176314-3

6.8K ohm, Surface Mount Precision Resistor, Thin Film, 0102, .3 W, .1 %, ±15 ppm/°C, Metal Electrode Leadless Face (MELF), Neohm SMA-A

[View on TE.com >](#)



Passive Components > Resistors > Surface Mount Resistors



Resistance Value: **6.8K Ω**

Resistor Type: **Precision Resistor**

Element Type: **Thin Film**

Package Size Code: **0102**

Power Rating: **.3 W**

## Features

### Dimensions

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

### Usage Conditions

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

### Electrical Characteristics

Operating Voltage	200 V
Resistance Value	6.8K Ω
Power Rating	.3 W
Resistance Class	1kΩ – 1MΩ
Passive Component Tolerance	.1 %

### Product Type Features

Resistor Type	Precision Resistor
Element Type	Thin Film



Package Size Code	0102
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### Configuration Features

Number of Resistors	1
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### Termination Features

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

Packaging Method	Taped & Reeled
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### Other

EU RoHS Compliance	Compliant
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EU ELV Compliance	Compliant
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## Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2023 (235) Does not contain REACH SVHC
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Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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Solder Process Capability	Reflow solder capable to 260°C
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#### 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 # 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 # 3-2176315-2  
MELF SMA\_A 39K 0.1% 15PPM 0204  
0.4W



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(270)

## Customers Also Bought



TE Part #2-2176467-5  
TLRP 1206 1.0W R007 1% 100PPM 5K  
RL



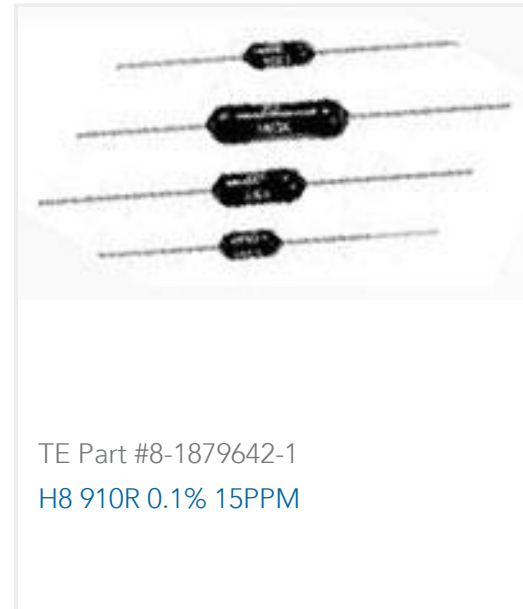
TE Part #1-1614885-5  
CPF 0805 300K 0.1% 25PPM 1K RL



TE Part #4-2176314-0  
MELF SMA\_A 270R 1% 50PPM 0102 0.3  
W



TE Part #6-1879131-8  
RN 0402 10K 0.1% 10PPM 1K RL



## Documents

### Product Drawings

[MELF SMA\\_A 6K8 0.1% 15PPM 0102 0.3W](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2-2176314-3\\_BA.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-2176314-3\\_BA.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-2176314-3\\_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