SMA-A0102BTNL27K

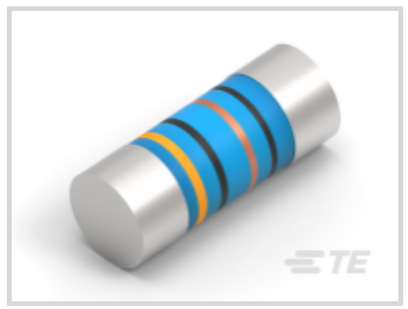
NEOHM | NEOHM SMA-A

TE Internal #: 3-2176314-0

TE Internal Description: MELF SMA_A 27K 0.1% 15PPM 0102 0.3W

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: **27K 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	27K 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

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	±15 ppm/°C

Packaging Features

Packaging Method	Taped & Reeled

Product Compliance

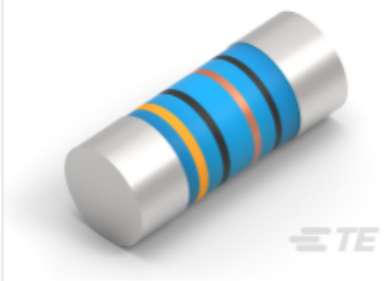
For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Out of Scope
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) Candidate List Declared Against: JAN 2025 (247) 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

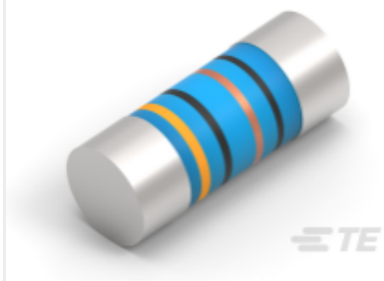
Product Compliance Disclaimer

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

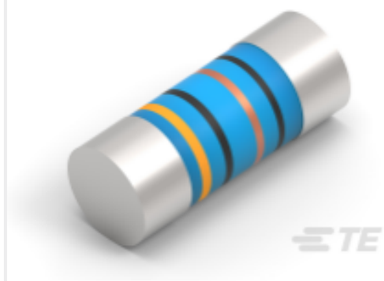
Compatible Parts



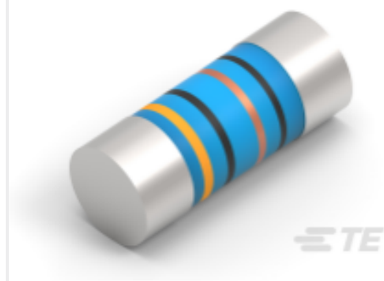
TE Part # 9-2176315-8
MELF SMA-A 1M0 1% 50PPM 0204 0.4 W



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



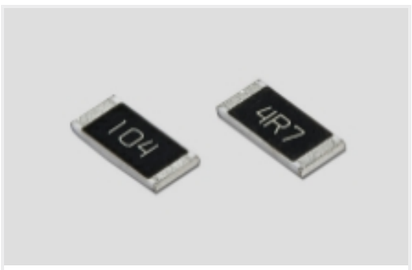
TE Part # 6-2176314-9
MELF SMA-A 10R 1% 50PPM 0102 0.3 W



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

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

Also in the Series | NEOHM SMA-A



Surface Mount Resistors(99)

Customers Also Bought

TE Part #9-1622826-8
CRG0402 1% 91R

TE Part #1676480-5
CRG0402 1% 110R

TE Part #1-1676480-0
CRG0402 1% 130K

TE Part #8-1676480-3
CRG0402 1% 68K



TE Part #1879223-9
CPF 0603 287R 0.1% 25PPM 1K RL



TE Part #5-1879223-9
CPF 0603 976R 0.1% 25PPM 1K RL



TE Part #4-1879225-2
CPF 0603 113K 0.1% 25PPM 1K RL



TE Part #6-1879225-6
CPF 0603 215K 0.1% 25PPM 1K RL



TE Part #2176215-7
CPF A 0402 1K0 0.1% 25PPM 1K RL



TE Part #4-2176325-3
CRGP 0402 33K 1%

Documents

Product Drawings

MELF SMA_A 27K 0.1% 15PPM 0102 0.3W

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_3-2176314-0_BA.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_3-2176314-0_BA.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_3-2176314-0_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