SMA-Q0207BTNT8K2 ✔ ACTIVE

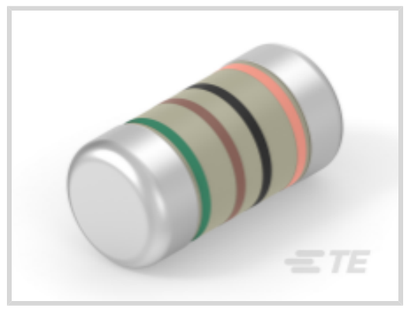
NEOHM | NEOHM SMA-Q

TE Internal #: 2-2176678-5

8.2K ohm, Thin Film, Precision Resistor, .1 %, 0207, 1 W, ±15 ppm/°C, Solder, 2 Terminations, 5.9 mm [.232 in] Length, Taped & Reeled, NEOHM SMA-Q

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: **8.2K Ω**

Features

Product Type Features

Shelf Life	2 Years
Resistor Type	Precision Resistor
Element Type	Thin Film
Package Size Code	0207

Configuration Features

Number of Resistors	1

Electrical Characteristics

Operating Voltage	350 V
Power Rating	1 W
Resistance Value	8.2K Ω
Resistance Class	1kΩ – 1MΩ
Passive Component Tolerance	.1 %

Termination Features

Surface Mount Resistor Termination Type	Solder

Number of Terminations	2

Dimensions

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

Usage Conditions

Operating Temperature Range	-55 – 155 °C[-67 – 311 °F]
Temperature Coefficient	±15 ppm/°C

Industry Standards

UL Flammability Rating	UL 94V-1
Industry Standard	AEC-Q200 Compliant
ESD HBM Classification	3A
Moisture Sensitivity Level	1

Packaging Features

Packaging Method	Taped & Reeled

Other

Passive Component Comment	Shelf Life Based on Date of Manufacture

Product Compliance

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

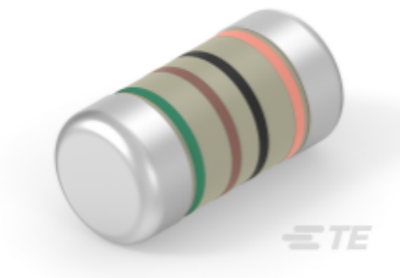
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) 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	Not reviewed for solder process capability

Product Compliance Disclaimer

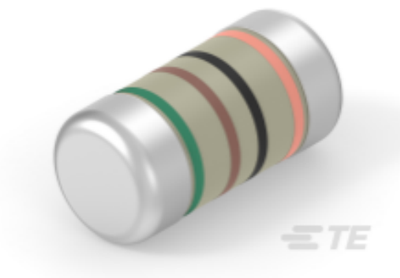
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as

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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles'(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts

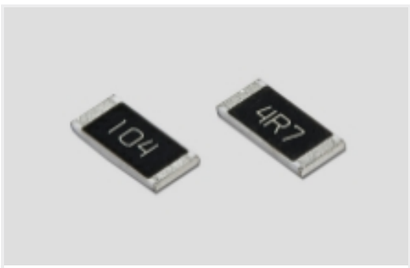


TE Part # 2-2176678-6
MELF SMA-Q 12K 0.1% 15PPM 0207 1W



TE Part # 2-2176678-4
MELF SMA-Q 6K8 0.1% 15PPM 0207 1W

Also in the Series | NEOHM SMA-Q



Surface Mount Resistors(6694)

Documents

Product Drawings

MELF SMA-Q 8K2 0.1% 15PPM 0207 1W

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2-2176678-5_BA.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_2-2176678-5_BA.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2-2176678-5_BA.2d_dxf.zip

English

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

Datasheets & Catalog Pages

METAL FILM PRECISION MELF RESISTOR

English