



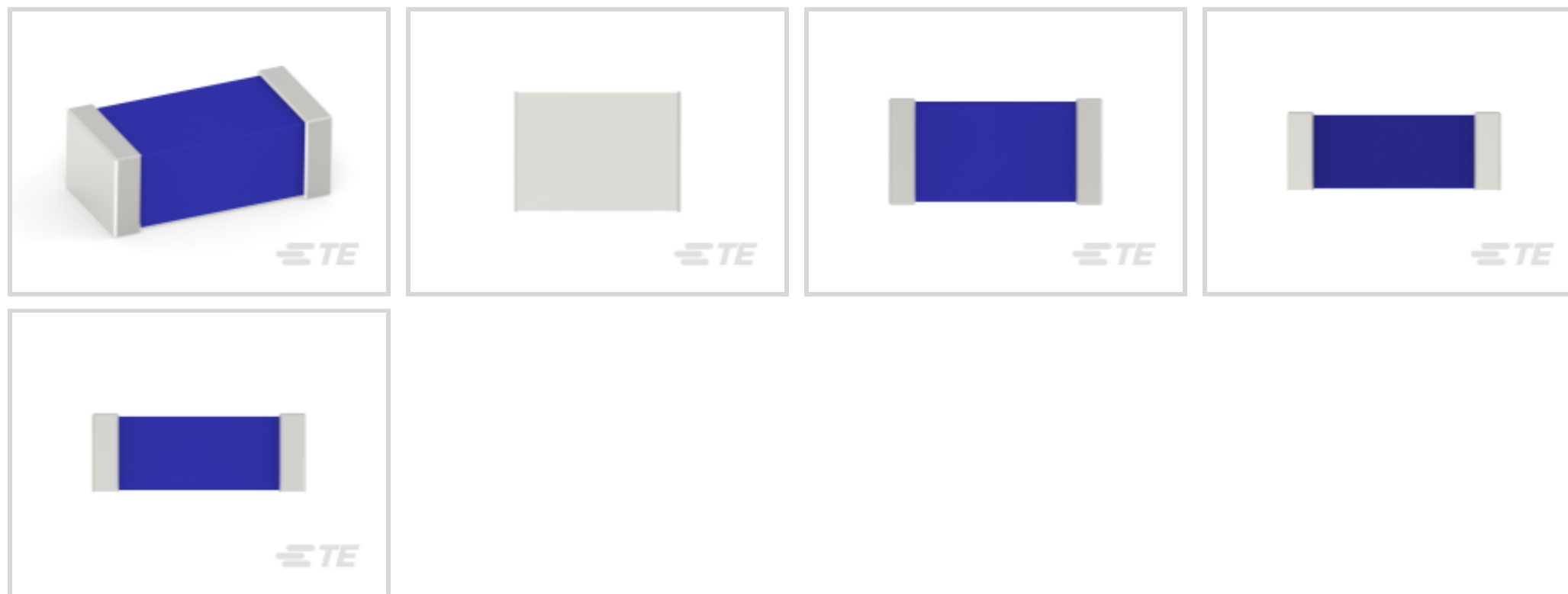
GNSS

TE Internal #: 2108838-1

GNSS, Antenna, Bluetooth / ZigBee / Wi-Fi, Printed Circuit Board, Surface Mount (SMT)

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Antennas



Wireless Application: **Bluetooth, Wi-Fi, WLAN, ZigBee**

Mounts To: **Printed Circuit Board**

Antenna Connection Type: **Surface Mount (SMT)**

Application by Region: **Bluetooth - Global - 2400 – 2500 MHz, Wi-Fi - Global - 2400 – 2483.5 MHz, ZigBee - Global - 2400 – 2483.5 MHz**

Antenna Style: **Embedded**

Features

Product Type Features

| | |
|-------------------------|---------------------|
| Antenna Connection Type | Surface Mount (SMT) |
|-------------------------|---------------------|

Configuration Features

| | |
|------------------|--------------------|
| Band Type | Single Band |
| Antenna Protocol | ISM / ZB / BT WIFI |
| Number of Ports | 1 |
| Antenna Style | Embedded |

Electrical Characteristics

| | |
|----------------|---------|
| VSWR (Max) | < 2.0:1 |
| Impedance | 50 Ω |
| Active Antenna | No |

Signal Characteristics

| | |
|----------------|-----------------|
| Frequency Band | 2400 – 2500 MHz |
| Gain (Max) | 2.4 dB |



Body Features

| | |
|----------------|------------------|
| Product Weight | .02 g[.00071 oz] |
|----------------|------------------|

Mechanical Attachment

| | |
|--------------|-----------------------|
| Region | Global |
| Polarization | Linear |
| Mounts To | Printed Circuit Board |

Dimensions

| | |
|----------------|-----------------|
| Product Length | 3.2 mm[.126 in] |
| Product Width | 1.6 mm[.063 in] |
| Product Height | 1.2 mm[.048 in] |

Usage Conditions

| | |
|-----------------------|---|
| Application by Region | Bluetooth - Global - 2400 – 2500 MHz, Wi-Fi - Global - 2400 – 2483.5 MHz, ZigBee - Global - 2400 – 2483.5 MHz |
|-----------------------|---|

Operation/Application

| | |
|-------------------|--------------------------------|
| Wireless Standard | 802.11 b/g, Bluetooth & ZigBee |
|-------------------|--------------------------------|

Industry Standards

| | |
|----------------------|--------------------------------|
| Wireless Application | Bluetooth, Wi-Fi, WLAN, ZigBee |
|----------------------|--------------------------------|

Packaging Features

| | |
|------------------|-------------|
| Packaging Method | Tape & Reel |
|------------------|-------------|

Other

| | |
|-----------------|----------|
| Precision Level | Standard |
|-----------------|----------|

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: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) 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

Not applicable for solder process capability

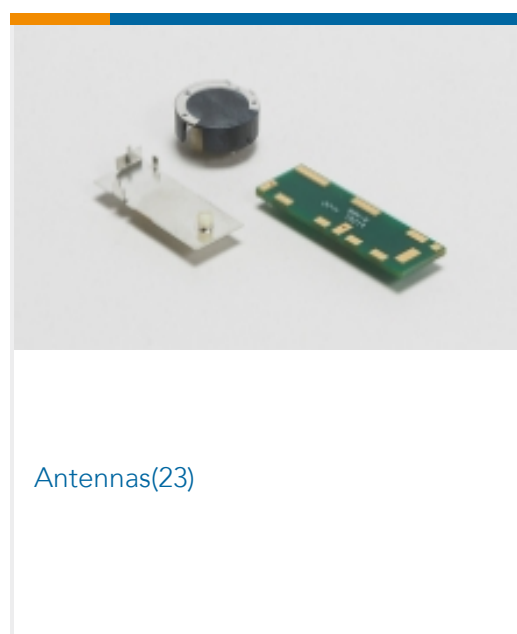
Product Compliance Disclaimer

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 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



Also in the Series | GNSS



Documents

Product Drawings

Chip ant., SMD, BT/Wi-Fi 2.4GHz

English

CAD Files

3D PDF

3D



Customer View Model

[ENG_CVM_CVM_2108838-1_1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2108838-1_1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2108838-1_1.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[BT/Chip ant., SMD, Wi-Fi 2.4GHz](#)

English