

2108851-1 ✓ ACTIVE



## GNSS

TE Internal #: 2108851-1

GNSS, Antenna, UWB, Printed Circuit Board, Surface Mount (SMT),  
UWB – Global – 6000 – 8100 MHz, Embedded, Length .158 in [4 mm], Width .079 in [2 mm]

[View on TE.com >](#)

### Antennas



Wireless Application: **UWB**

Mounts To: **Printed Circuit Board**

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

Application by Region: **UWB – Global – 6000 – 8100 MHz**

Antenna Style: **Embedded**

## Features

### Product Type Features

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

### Configuration Features

|                 |          |
|-----------------|----------|
| Band Type       | Wideband |
| Number of Ports | 1        |
| Antenna Style   | Embedded |

### Electrical Characteristics

|                |             |
|----------------|-------------|
| VSWR (Max)     | <1.9:1      |
| Impedance      | 50 $\Omega$ |
| Active Antenna | No          |

### Signal Characteristics

|                |                 |
|----------------|-----------------|
| Frequency Band | 6000 – 8100 MHz |
| Gain (Max)     | 2.8 dB          |

### Body Features



|                |                  |
|----------------|------------------|
| Product Weight | .04 g[.00142 oz] |
|----------------|------------------|

### Mechanical Attachment

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

### Dimensions

|                |                 |
|----------------|-----------------|
| Product Length | 4 mm[.158 in]   |
| Product Width  | 2 mm[.079 in]   |
| Product Height | 1.2 mm[.048 in] |

### Usage Conditions

|                       |                                |
|-----------------------|--------------------------------|
| Application by Region | UWB – Global – 6000 – 8100 MHz |
|-----------------------|--------------------------------|

### Operation/Application

|                   |     |
|-------------------|-----|
| Wireless Standard | UWB |
|-------------------|-----|

### Industry Standards

|                      |     |
|----------------------|-----|
| Wireless Application | UWB |
|----------------------|-----|

### 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: JUL 2021 (219)<br>Candidate List Declared Against: JAN 2021 (211)<br>SVHC > Threshold:<br>Not Yet Reviewed |
| 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 245°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

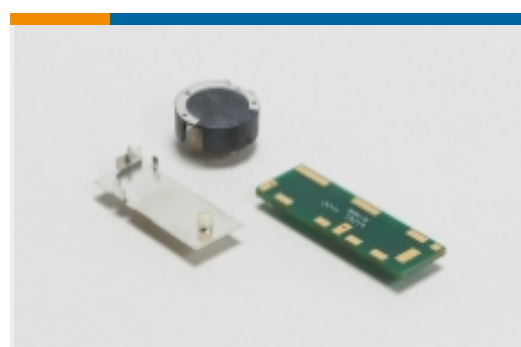


TE Part # 2118706-2  
1 PC STD SHIELD, CRS-13.66X12.70X2.54MM




TE Part # 2118709-4  
1 PC STD SHIELD, AL-32.00X32.00X6.00MM

### Also in the Series | GNSS



Antennas(23)

### Customers Also Bought



TE Part #878513-000  
Bulbous Heat Shrink Boots: Lipped, Right Angle



TE Part #154717-6  
PL 250 REC TERMINAL 14-11 AWG PTPB



TE Part #1-1703543-0  
2POS,TAB 2.8X0.8,TAB HSG,ASSY

### Documents



### Product Drawings

[Chip ant., SMD, UWB 6000-8000MHz](#)

English

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### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2108851-1\\_1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2108851-1\\_1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2108851-1\\_1.3d\\_stp.zip](#)

English

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

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### Datasheets & Catalog Pages

[Chip ant., SMD, UWB 6000-8000MHz](#)

English