Antenna, CDMA 1900 / CDMA 850 / GSM, Printed Circuit Board, Tab Mount (Through Hole)

Wireless Application: CDMA 1900, CDMA 850, GSM, GSM 1800, GSM 900, ISM, LTE, ZigBee

Mounts To: Printed Circuit Board

Antenna Connection Type: Tab Mount (Through Hole)

Application by Region:
- CDMA - Americas - 1850 – 1990 MHz
- CDMA - Americas - 824 – 894 MHz
- GSM - Americas - 1850 – 1990 MHz
- GSM - Americas - 824 – 894 MHz
- GSM - EU - 1710 – 1880 MHz
- GSM - EU - 880 – 960 MHz
- ISM - EU - 868 – 870 MHz
- LTE - Americas - 824 – 894 MHz
- LTE - EU - 1710 – 1880 MHz
- LTE - EU - 880 – 960 MHz
- ZigBee - EU - 868 – 870 MHz

Antenna Style: Embedded

Features

Product Type Features

| Antenna Connection Type | Tab Mount (Through Hole) |

Configuration Features

<table>
<thead>
<tr>
<th>Band Type</th>
<th>Quad Band</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna Protocol</td>
<td>Cellular</td>
</tr>
<tr>
<td>Number of Ports</td>
<td>1</td>
</tr>
<tr>
<td>Antenna Style</td>
<td>Embedded</td>
</tr>
<tr>
<td>Antenna Type</td>
<td>PCB</td>
</tr>
</tbody>
</table>

Electrical Characteristics

<table>
<thead>
<tr>
<th>VSWR (Max)</th>
<th>&lt;3:1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Active Antenna</td>
<td>No</td>
</tr>
</tbody>
</table>

Signal Characteristics

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>1710 – 1880 MHz, 1850 – 1990 MHz, 824 – 894 MHz, 868 – 870 MHz, 880 – 960 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain (Max)</td>
<td>2 dB</td>
</tr>
</tbody>
</table>

Body Features

| Product Weight       | 1.8 g [.0635 oz] |

Mechanical Attachment

For support call +1 800 522 6752
### Region
- EU, US

### Polarization
- Linear

### Mounts To
- Printed Circuit Board

### Dimensions
<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Length</td>
<td>37.59 mm [1.4 in]</td>
</tr>
<tr>
<td>Product Width</td>
<td>15.11 mm [.595 in]</td>
</tr>
<tr>
<td>Product Height</td>
<td>1.57 mm [.062 in]</td>
</tr>
</tbody>
</table>

### Usage Conditions

#### Application by Region
- CDMA - Americas - 1850 – 1990 MHz,
- CDMA - Americas - 824 – 894 MHz,
- GSM - Americas - 1850 – 1990 MHz,
- GSM - Americas - 824 – 894 MHz,
- GSM - EU - 1710 – 1880 MHz,
- GSM - EU - 880 – 960 MHz,
- ISM - EU - 868 – 870 MHz,
- LTE - Americas - 824 – 894 MHz,
- LTE - EU - 1710 – 1880 MHz,
- LTE - EU - 880 – 960 MHz,
- ZigBee - EU - 868 – 870 MHz

### Operation/Application

#### Wireless Standard
- US Dual & EU Dual Band

### Industry Standards

#### Wireless Application
- CDMA 1900, CDMA 850, GSM, GSM 1800,
- GSM 900, ISM, LTE, ZigBee

### Packaging Features

#### Packaging Method
- Bag / Box

### Other

#### Precision Level
- Standard

### Product Compliance

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

<table>
<thead>
<tr>
<th>Directive</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU RoHS Directive 2011/65/EU</td>
<td>Compliant</td>
</tr>
<tr>
<td>EU ELV Directive 2000/53/EC</td>
<td>Compliant</td>
</tr>
<tr>
<td>China RoHS 2 Directive MIIT Order No 32, 2016</td>
<td>No Restricted Materials Above Threshold</td>
</tr>
</tbody>
</table>
**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.

**Customers Also Bought**

- **TE Model / Part #2-4064541-3**
  MU,JU,1X1,6P&G,100°ST,SN, NARROW POST

- **TE Model / Part #1527494-3**
  2mm pitch Battery Rec. Assy. 7Pos. H=4.0

- **TE Model / Part #1513317-1**
  PCB ANTENNA PENTA BAND

- **TE Model / Part #1734620-8**
  1.25 WTB HDR SMT, 8 POS

- **TE Model / Part #2029150-4**
  4P R/A HDR VAL-U-LOC V2 W/P

- **TE Model / Part #2-2176240-1**
  3522 39R 5% 3W

- **TE Model / Part #1-1623793-6**
  SQPS 33K 5% MTL FLM

- **TE Model / Part #1-2201196-0**
  0.4 STACKING CONN HD98 PLUG ASSEMBLY
Antenna, CDMA 1900 / CDMA 850 / GSM, Printed Circuit Board, Tab Mount (Through Hole)

Documents

**Product Drawings**
PCB Antenna DUAL BAND US EU

**CAD Files**
3D PDF
3D
Customer View Model
ENG_CVM_CVM_1513273-1_B_c-1513273-1-b.2d_dxf.zip
Customer View Model
ENG_CVM_CVM_1513273-1_B_c-1513273-1-b.3d_igs.zip
Customer View Model
ENG_CVM_CVM_1513273-1_B_c-1513273-1-b.3d_stp.zip

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

**Datasheets & Catalog Pages**
PCB Antenna

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