Wireless Application: CDMA 1900, CDMA 850, GSM 1800, GSM 1900, GSM 850, GSM 900, LTE, LTE-HB 2600, LTE-LB 700

Mounts To: Printed Circuit Board
Mounting Retention Type: Printed Circuit Board
Antenna Connection Type: Surface Mount (SMT)

Application by Region: GSM - Americas - 1850 – 1990 MHz, GSM - Americas - 824 – 894 MHz, GSM - EU - 1710 – 1880 MHz, GSM - EU - 880 – 960 MHz, GSM Global, LTE All Band - 1710 – 2700 MHz, LTE All Band - 698 – 960 MHz

Features

**Product Type Features**

<table>
<thead>
<tr>
<th>Antenna Connection Type</th>
<th>Surface Mount (SMT)</th>
</tr>
</thead>
</table>

**Configuration Features**

<table>
<thead>
<tr>
<th>Band Type</th>
<th>Wideband</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna Protocol</td>
<td>LTE World Band</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>Impedance</th>
<th>50 Ω</th>
</tr>
</thead>
</table>

**Signal Characteristics**

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>1710 – 2690 MHz, 698 – 960 MHz</th>
</tr>
</thead>
</table>

**Mechanical Attachment**

<table>
<thead>
<tr>
<th>Mounts To</th>
<th>Printed Circuit Board</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting Retention Type</td>
<td>Printed Circuit Board</td>
</tr>
</tbody>
</table>
## Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Length</td>
<td>40 mm (1.575 in)</td>
</tr>
<tr>
<td>Product Width</td>
<td>10 mm (0.394 in)</td>
</tr>
<tr>
<td>Product Height</td>
<td>3.175 mm (0.125 in)</td>
</tr>
</tbody>
</table>

## Usage Conditions

**Application by Region**

- GSM - Americas - 1850 – 1990 MHz, GSM - Americas - 824 – 894 MHz, GSM - EU - 1710 – 1880 MHz, GSM - EU - 880 – 960 MHz, GSM Global, LTE All Band - 1710 – 2700 MHz, LTE All Band - 698 – 960 MHz

## Operation/Application

- **Wireless Standard**: LTE, UMTS, US Dual, EU Triband & WCDMA

## Industry Standards

- **Wireless Application**: CDMA 1900, CDMA 850, GSM 1800, GSM 1900, GSM 850, GSM 900, LTE, LTE-HB 2600, LTE-LB 700

## Packaging Features

- **Packaging Method**: Tape & Reel

## Other

- **Precision Level**: Standard

## Product Compliance

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

<table>
<thead>
<tr>
<th>Compliance</th>
<th>Details</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>
<tr>
<td>Halogen Content</td>
<td>Low Bromine/Chlorine - Br and Cl &lt; 900 ppm per homogenous material. Also BFR /CFR/PVC Free</td>
</tr>
<tr>
<td>Solder Process Capability</td>
<td>Reflow solder capable to 245°C</td>
</tr>
</tbody>
</table>

For support call +1 800 522 6752
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 Model / Part # 2118707-4
  1 PC STD SHEILD, AL-16.50X16.50X3.60MM

- TE Model / Part # 2118711-2
  1 PC STD SHEILD, CRS-36.88X33.68X5.08MM

Customers Also Bought

- TE Model / Part #1746600-2
  INSULATION BOOT,V2, RED

- TE Model / Part #1062-16-0177
  DEUTSCH STAMPED & FORMED CONTACTS

- TE Model / Part #1062-16-0177
  CRIMPER, INSULATION F

- TE Model / Part #1766600-2
  INSULATION BOOT,#2, RED

- TE Model / Part #5054234003
  RNFL-100-1/2-8-SP

- TE Model / Part #505414010
  RNFL-100-1/16-8-SP

- TE Model / Part #924472-1
  UNIV.M.N.L CAP S.C.
Documents

Product Drawings
4G LTE Antenna (PCB Type), T&R PKG
English

CAD Files
3D PDF
3D
Customer View Model
ENG_CVM_CVM_2108994-1_A2.2d_dxf.zip
English
Customer View Model
ENG_CVM_CVM_2108994-1_A2.3d_igs.zip
English
Customer View Model
ENG_CVM_CVM_2108994-1_A2.3d_stp.zip
English

Datasheets & Catalog Pages
Datasheet 2108994-1
English

Product Specifications
Product Specification
English