

ANT-868-JJB-RA ✓ ACTIVE

TE Internal #: ANT-868-JJB-RA

Dome/Puck Antenna, Single Band, LPWAN / LoRaWAN, Internal /Embedded Mount, Through-Hole/Tab Mount, Solder, Omnidirectional, Single Port, Gain < 0 dBi

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Antennas



Wireless Application: **LoRaWAN, LPWAN, Wi-Fi**

Mounting Location: **Internal/Embedded**

Mounting Type: **Through-Hole/Tab Mount**

Antenna Termination: **Solder**

Antenna Type: **Dome/Puck**

Features

Product Type Features

| | |
|---------------------|--------|
| Antenna Termination | Solder |
|---------------------|--------|

Configuration Features

| | |
|--------------------|-------------------|
| Antenna Style | Dome |
| Mounting Location | Internal/Embedded |
| Antenna Type | Dome/Puck |
| Band Type | Single Band |
| Port Configuration | Single Port |

Electrical Characteristics

| | |
|------------|-------------|
| VSWR (Max) | <2.1:1 |
| Impedance | 50 Ω |

Signal Characteristics

| | |
|-------------------------|-----------|
| Frequency Band | 868 MHz |
| Nominal Frequency Range | 862 – 870 |
| Peak Gain | < 0 dBi |

Body Features

| | |
|----------------|------------------|
| Product Weight | .46 g[.01622 oz] |
|----------------|------------------|

Mechanical Attachment

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|--|--|
| | |
|--|--|



| | |
|---------------|------------------------|
| Polarization | Linear |
| Mounting Type | Through-Hole/Tab Mount |

Dimensions

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|----------------|-----------------|
| Product Width | 7 mm[.28 in] |
| Product Length | 14.5 mm[.57 in] |
| Product Height | 0 mm[0 in] |

Operation/Application

| | |
|----------------|-----------------|
| Directionality | Omnidirectional |
|----------------|-----------------|

Industry Standards

| | |
|----------------------|-----------------------|
| Wireless Application | LoRaWAN, LPWAN, Wi-Fi |
| Primary Application | LoRaWAN, LPWAN |

Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

| | |
|---|--|
| EU RoHS Directive 2011/65/EU | Compliant with Exemptions |
| EU ELV Directive 2000/53/EC | Not Yet Reviewed |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2023 (235) Not Yet Reviewed |
| Halogen Content | Not Yet Reviewed for halogen content |
| 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 # ANT-868-CHP-T
Antenna Chip T&R 868MHz SMT



TE Part # ANT-868-HESM
Antenna 1/4 Wave Coil 868MHz SMT



TE Part # ANT-868-JJB-HT-T
Antenna Mini Hi-Temp 868MHz THM T&R



TE Part # ANT-868-JJB-ST
Antenna Mini Straight 868MHz THM T&R



TE Part # ANT-868-PW-LP
Antenna 1/4 Wave 868MHz Screw #10



TE Part # ANT-868-SP
Antenna SP PCB RPC 868MHz SMT

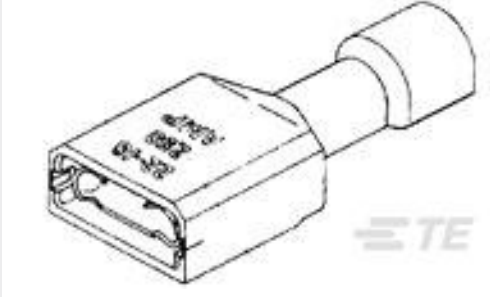


TE Part # L9000152-01
Antenna uSP PCB RPC 410 868MHz SMT T&R

Customers Also Bought



TE Part #42802-1
250 FASTON TAB TPBR



TE Part #2-520272-2
ULTRA-FAST .110/.125 ASY REC 22-18 TPBR



TE Part #ANT-868-JJB-ST
Antenna Mini Straight 868MHz THM



TE Part #ANT-916-JJB-RA
Antenna Mini R-Angle 916MHz THM



TE Part #ANT-916-JJB-ST
Antenna Mini Straight 916MHz THM




TE Part #ANT-916-PW-QW
Antenna 1/4 Wave Whip 916MHz RG174



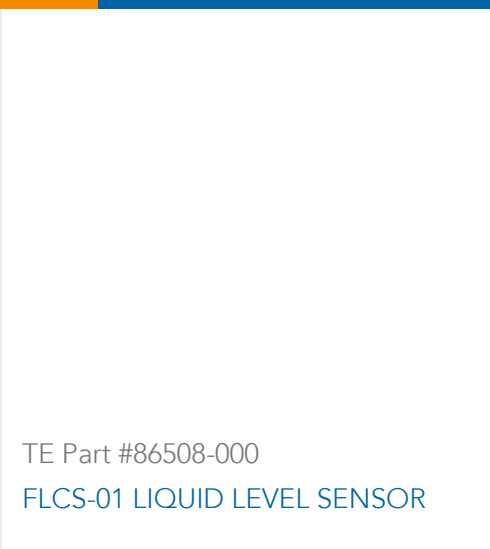
TE Part #CONUFL001-SMD-T
U.FL/MHF1 Jack 50 Ohm PCB Surface Mount



TE Part #3-2176308-3
RP 1E 0.1W 4R99 0.1% 25PPM 1K RL



TE Part #1SNA173520R2200
BJM6D-10



TE Part #86508-000
FLCS-01 LIQUID LEVEL SENSOR



Documents

Product Drawings

[Antenna Mini R-Angle 868MHz THM](#)

English

Datasheets & Catalog Pages

[ANT-868-JJB-cc](#)

English