

ANT-433-USP410-T

✓ ACTIVE

TE Internal #: ANT-433-USP410  
PCB Antenna, Single Band, LPWAN / LoRaWAN, Internal  
/Embedded Mount, Surface Mount, Solder, Omnidirectional, Single  
Port, Gain < 0 dBi  
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Antennas



Wireless Application: **LoRaWAN, LPWAN**  
Mounting Location: **Internal/Embedded**  
Mounting Type: **Surface Mount**  
Frequency Category: **410 – 470**  
Antenna Type: **PCB**

Features

Product Type Features

Antenna Termination	Solder
Antenna Product Type	Antenna

Configuration Features

Antenna Style	PCB
Mounting Location	Internal/Embedded
Antenna Type	PCB
Band Type	Single Band
Port Configuration	Single Port

Electrical Characteristics

VSWR (Max)	<1.5:1
Impedance	50 Ω

Signal Characteristics

Frequency Band	433 MHz
Frequency Category	410 – 470
Peak Gain	< 0 dBi

Body Features

Product Weight	.6 g[.02116 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Surface Mount

Dimensions

Product Width	9.14 mm[.36 in]
Product Length	13.2 mm[.52 in]
Product Height	2.9 mm[.11 in]

Operation/Application

Directionality	Omnidirectional
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Industry Standards

Wireless Application	LoRaWAN, LPWAN
Primary Application	LoRaWAN, LPWAN

Packaging Features

Packaging Method	Reel/Carton
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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	Not Yet Reviewed
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: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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 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.


## Customers Also Bought



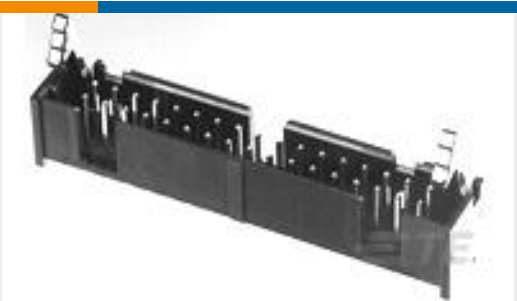
TE Part #2-1623729-1  
BCHE 17 W 47R 5%




TE Part #4-2176070-0  
3521 430R 1% 2W




TE Part #5535089-5  
ASSEMBLY,RECEPTACLE,EUROCARD, T




TE Part #1-1761608-3  
IDC LOW PRO HDR 40P VERT SHT L




TE Part #650947-5  
096 EURO TYPE C PIN ST ASSY



TE Part #1571218-3  
TACT,SMT,12X12,SEALED,T&R



TE Part #9-1614882-8  
CPF 0603 20R 0.1% 25PPM 1K RL



TE Part #5-2301994-9  
RJ45 JACK INT.MAG. 10/100 LED 1X1

## Documents

### Product Drawings

Antenna uSP PCB RPC 410 433MHz SMT T&R

English

### CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_ANT-433-USP410\_1.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_ANT-433-USP410\_1.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_ANT-433-USP410\_1.3d\_stp.zip

English

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

### Datasheets & Catalog Pages



Embedded 433 MHz LPWA Antenna

English