# ANT-418-CW-QW - ACTIVE

TE Internal #: ANT-418-CW-QW

Whip Antenna, Single Band, Cellular / Cat-M/NB-IoT, External

Mount, Connector, Solder, Omnidirectional, Single Port, Gain 0 < 3

dBi

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#### Antennas



Wireless Application: Cat-M/NB-IoT, Cellular

Mounting Location: External

Mounting Type: Connector

Antenna Termination: Solder

Antenna Type: Whip

### **Features**

### **Product Type Features**

Antenna Termination	Solder
Configuration Features	
Antenna Style	Whip
Mounting Location	External
Antenna Type	Whip
Band Type	Single Band
Port Configuration	Single Port
Electrical Characteristics	
VSWR (Max)	<2.1:1
Impedance	50 Ω
Signal Characteristics	
Gain (Max)	2.9 dB
Frequency Band	418 MHz
Nominal Frequency Range	410 – 470
Peak Gain	0 < 3 dBi
Body Features	

18.6 g[.65608 oz]

Product Weight



#### Mechanical Attachment

Polarization	Linear
Mounting Type	Connector
Dimensions	
Product Width	14.5 mm[.57 in]
Product Length	177.2 mm[6.98 in]
Product Height	0 mm[0 in]
Operation/Application	
Antenna Environment	Outdoor
Directionality	Omnidirectional
Industry Standards	
Wireless Application	Cat-M/NB-IoT, Cellular

Cat-M/NB-IoT, Cellular

#### **Product Compliance**

**Primary Application** 

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 # CONREVSMA001-G RP-SMA Jack 50 Ohm PCB Through Hole



TE Part # CONREVSMA002-SMD-G RP-SMA RA Jack 50 Ohm PCB Surface Mount



TE Part # L9000251-01 RP-SMA Jack 50 Ohm .062 PCB Edge Mount



TE Part # L9000254-01 RP-SMA Jack 50 Ohm .031 PCB Edge Mount



## Customers Also Bought



TE Part #1437624-8
PK70B1/4=KNOB PLASTIC BLK 1/4



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



TE Part #L9000252-01 RP-SMA Jack 50 Ohm .062 PCB Edge Mount



TE Part #CSA-RPSM-216-RSFB RP-SMA to RP-SMA 216mm RG174





TE Part #OTX-418-HH-CP8-MS Remote MS 418MHz OOK AM 8Btn HH TX FCC



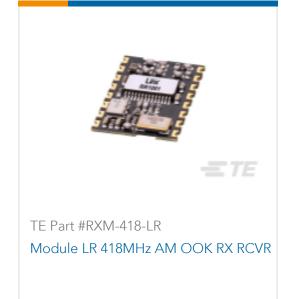
TE Part #OTX-418-HH-KF2-MS Remote MS 418MHz OOK AM 2Btn KF TX FCC



TE Part #OTX-418-HH-LR8-MS Remote MS 418MHz OOK AM 8Btn HH TX FCC







## **Documents**

Product Drawings
Antenna 1/4 Wave Whip 418MHz

English

Datasheets & Catalog Pages

ANT-418-CW-QW

English