

ANT-916-CW-RAH

✓ ACTIVE

TE Internal #: ANT-916-CW-RAH  
Terminal/Duck Antenna, Single Band, LPWAN / LoRaWAN,  
External Mount, Stud/Screw/Lug Mount, RP-SMA, Omnidirectional,  
Single Port, 0 < 3 dBi Peak Gain  
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Antennas



Communication Protocol: **LoRaWAN, LPWAN, Wi-Fi**  
Mounting Location: **External**  
Mounting Type: **Stud/Screw/Lug Mount**  
Frequency Category: **901 – 941**  
Antenna Type: **Terminal/Duck**

Features

Product Type Features

|                      |         |
|----------------------|---------|
| Antenna Termination  | RP-SMA  |
| Antenna Product Type | Antenna |

Configuration Features

|                    |               |
|--------------------|---------------|
| Antenna Style      | Whip          |
| Mounting Location  | External      |
| Antenna Type       | Terminal/Duck |
| Band Type          | Single Band   |
| Port Configuration | Single Port   |

Electrical Characteristics

|            |        |
|------------|--------|
| Impedance  | 50 Ω   |
| VSWR (Max) | <1.9:1 |

Signal Characteristics

|                    |           |
|--------------------|-----------|
| Frequency Band     | 915 MHz   |
| Gain (Max)         | 2.2 dB    |
| Frequency Category | 901 – 941 |
| Peak Gain          | 0 < 3 dBi |

Body Features

|                |                 |
|----------------|-----------------|
| Antenna Weight | 6.07 g[.214 oz] |
|----------------|-----------------|



Mechanical Attachment

|               |                      |
|---------------|----------------------|
| Polarization  | Linear               |
| Mounting Type | Stud/Screw/Lug Mount |

Dimensions

|                |                 |
|----------------|-----------------|
| Product Width  | 16.1 mm[.63 in] |
| Product Length | 47 mm[1.85 in]  |
| Product Height | 0 mm[0 in]      |

Operation/Application

|                     |                 |
|---------------------|-----------------|
| Antenna Environment | Outdoor         |
| Directionality      | Omnidirectional |

Industry Standards

|                        |                       |
|------------------------|-----------------------|
| Communication Protocol | 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 | 未针对中国 RoHS 符合性进行审核 Not reviewed for China RoHS compliance                                                                                                                                                                                                                                                                                                                                                                   |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: Not Yet Reviewed<br>SVHC > Threshold:<br>Pb (4.45% in Component)<br><b>Article Safe Usage Statements:</b><br>Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content                               | Low Bromine/Chlorine - Br and Cl < 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.

Compatible Parts

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

TE Part # CONREVSMA008-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 # L9000254-01  
RP-SMA Jack 50 Ohm .031 PCB Edge Mount

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

Customers Also Bought

TE Part #E44151-000  
T2K-254064-10-9

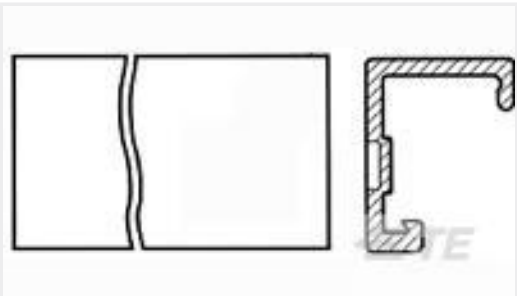
TE Part #3-640427-4  
04P MTA156 CONN ASSY 20AWG YEL

TE Part #3-640427-6  
06P MTA156 CONN ASSY 20AWG YEL

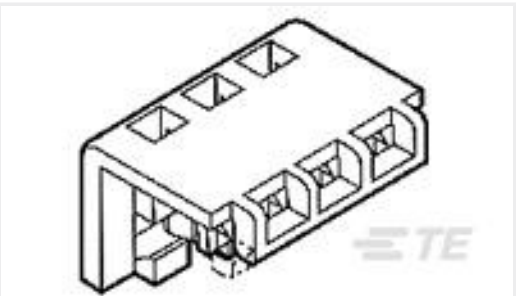
TE Part #640457-6  
06P MTA100 HDR ASSY SQ R/A F/L

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Terminal/Duck Antenna, Single Band, LPWAN / LoRaWAN, External Mount, Stud /Screw/Lug Mount, RP-SMA, Omnidirectional, Single Port, 0 < 3 dBi Peak Gain



TE Part #640551-6  
06P MTA156 COVER



TE Part #643067-4  
04P MTA156 CMOLDED COVER



TE Part #CAT-104MTA-NYLCC  
Nylon PCB Connector Covers: 2.54 mm, MTA 100



TE Part #4-644759-0  
10P MTA156 HDR ASSY STR LF



TE Part #1586161-1  
02P UMNL HDR 94VO NDH

Documents

Product Drawings

Antenna 1/4 Wave R-Angle 916MHz RPS

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_ANT-916-CW-RAH\_A.3d\_stp.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_ANT-916-CW-RAH\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_ANT-916-CW-RAH\_A.2d\_dxf.zip

English

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

Datasheets & Catalog Pages

916 MHz Helical Monopole Antenna

English