

ANT-GNCP-C257L160

✓ ACTIVE

TE Internal #: ANT-GNCP-C257L160
Patch Antenna, Multi Band, GNSS / GPS, Internal/Embedded
Mount, Connector Mount, MHF1 / U.FL, Directional, Single Port, >
6 dBi Peak Gain
[View on TE.com >](#)



Antennas



Communication Protocol: **GNSS, GPS**
Mounting Location: **Internal/Embedded**
Mounting Type: **Connector Mount**
Frequency Category: **1164 – 1610**
Antenna Type: **Patch**

Features

Product Type Features

Mount Radio End Connector Type	Mini UHF
Mount Antenna End Connector Type	Mini UHF
Antenna Termination	MHF1, U.FL
Antenna Product Type	Antenna

Configuration Features

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

Electrical Characteristics

Impedance	50 Ω
Antenna Operation	Active
VSWR (Max)	<2.1:1

Signal Characteristics

Frequency Band	1602 MHz
Gain (Max)	36.1 dB
Frequency Category	1164 – 1610



Peak Gain	> 6 dBi
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Body Features

Antenna Weight	11.6 g[.409 oz]
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Mechanical Attachment

Polarization	RHCP
Mounting Type	Connector Mount

Dimensions

Product Width	25.24 mm[.99 in]
Product Length	25.12 mm[.989 in]
Product Height	7.23 mm[.285 in]
Cable Length	.06 m[.196 ft]
Cable Insulation Diameter (Max)	1.13 mm[.044 in]

Operation/Application

Option	Connector Preinstalled
Antenna Environment	Indoor
Wireless Standard	GPS
Directionality	Directional

Industry Standards

Communication Protocol	GNSS, GPS
Primary Application	GNSS, GPS

Packaging Features

Packaging Method	Box & Tray
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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) Candidate List Declared Against: JUNE 2025 (250) SVHC > Threshold:



Pb (3.28% in Component Part)

Article Safe Usage Statements:
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 Halogen - Br, Cl, F < 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 # CONMHF1-SMD-T
U.FL/MHF1 Jack 50 Ohm PCB Surface Mount



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



TE Part # CONMHF1-SMD-G-T
U.FL/MHF1 Jack 50 Ohm PCB Surface Mount

Customers Also Bought



TE Part #ANT-GNCP-CA188L165
Antenna GNSS L1 18x18 LNA 1.13 UFL



TE Part #T4171210003-001
M12,FRONT MOUNTING,MALE,A,3P, 0.2M WIRE



TE Part #T4110002031-000
M12,FEMALE,STRAIGHT,A CODE,3P, PG9,GOLD



TE Part #4525DO-DS5AI001DP
1PSI PCB MOUNT I2C DIFF PRESSURE SENSOR

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TE Part #OF86315-FNF
OMNI,FG,863-928MHz ,5dBi,



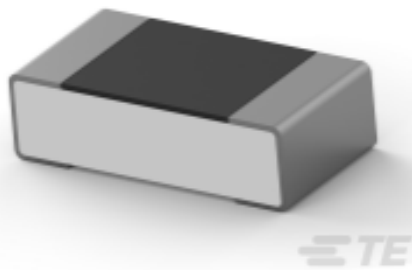
TE Part #3-1622826-5
CRG0402 5% 33K



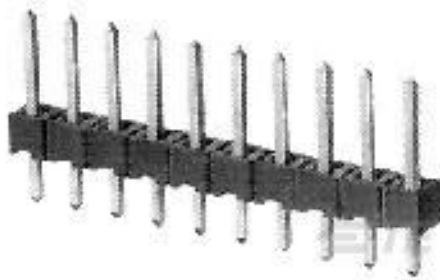
TE Part #5-1676480-8
CRG0402 1% 3K0



TE Part #2108824-1
Chip ant., SMD, L1+G1



TE Part #6-2176369-8
RQ 0603 200R 0.1% 10PPM 5K RL



TE Part #826926-2
AMPMODU II PIN HEADER

Documents

Product Drawings

Antenna GNSS L1 25x25 LNA 1.13 UFL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_ANT-GNCP-C257L160_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_ANT-GNCP-C257L160_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_ANT-GNCP-C257L160_B.3d_stp.zip

English

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

Datasheets & Catalog Pages

L1 Active Ceramic Patch GNSS Antenna

English