

ANT-GNCP-CA188L165 ✓ ACTIVE



TE Internal #: ANT-GNCP-CA188L165

Patch Antenna, Multi Band, GNSS / GPS, Internal/Embedded
Mount, Surface Mount, MHF / U.FL / UMCC, Directional, Single
Port, Gain > 6 dBi

[View on TE.com >](#)

Antennas



Wireless Application: **GNSS, GPS**

Mounting Location: **Internal/Embedded**

Mounting Type: **Surface Mount**

Frequency Category: **1164 – 1610**

Antenna Type: **Patch**

Features

Product Type Features

Antenna Termination	MHF, MHF1, U.FL, UMCC
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

VSWR (Max)	<1.1:1
Impedance	50 Ω

Signal Characteristics

Gain (Max)	10.6 dB
Frequency Band	1559 – 1563 MHz
Frequency Category	1164 – 1610
Peak Gain	> 6 dBi

Body Features

Product Weight	7.4 g [.26102 oz]
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Mechanical Attachment

Polarization	RHCP
Mounting Type	Surface Mount

Dimensions

Cable Length	.06 m[.21 ft]
Product Width	18 mm[.71 in]
Product Length	18 mm[.71 in]
Product Height	7.1 mm[.28 in]

Operation/Application

Directionality	Directional
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Industry Standards

Wireless Application	GNSS, GPS
Primary Application	GNSS, GPS

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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed for solder process capability

Product Compliance Disclaimer


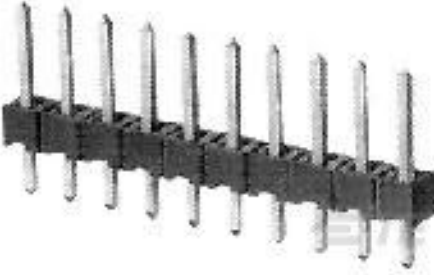


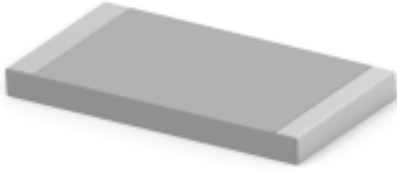




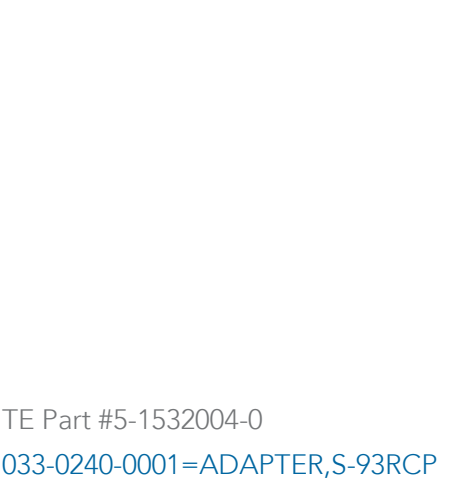
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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.

Compatible Parts

 <p>TE Part # CONMHF1-SMD-G-T U.FL/MHF1 Jack 50 Ohm PCB Surface Mount</p>	 <p>TE Part # CONMHF1-SMD-T U.FL/MHF1 Jack 50 Ohm PCB Surface Mount</p>	 <p>TE Part # CONUFL001-SMD Conn UFL MHF Straight PCB Mount Jack</p>	 <p>TE Part # CONUFL001-SMD-T U.FL/MHF1 Jack 50 Ohm PCB Surface Mount</p>
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Customers Also Bought

 <p>TE Part # 1393236-8 V23092-A1012-A302</p>	 <p>TE Part # 825433-8 MOD 2 PINHDR 1X8 P.</p>	 <p>TE Part # 8-1393239-7 RT314F12</p>	 <p>TE Part # 6-104071-0 08 SYSTEM 50 HDR SRST SHRD SN</p>
 <p>TE Part # 1-2176331-9 CRGP 2512 330R 1%</p>	 <p>TE Part # 5414651-3 JACK,DECOUP,LOW PROFILE,ESD, BNC</p>	 <p>TE Part # ADP-SMAF-NM SMA Jack to N Type Plug</p>	 <p>TE Part # ANT-GNCP-CA158L160 Antenna GNSS L1 15x15 LNA 1.13 UFL</p>
 <p>TE Part # ANT-LTE-RPC Antenna Adh PCB RPC LTE 1.13 100</p>	 <p>TE Part # 5-1532004-0 033-0240-0001=ADAPTER,S-93RCP</p>		



Documents

Product Drawings

[Antenna GNSS L1 18x18 LNA 1.13 UFL](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_ANT-GNCP-CA188L165_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-GNCP-CA188L165_C.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-GNCP-CA188L165_C.2d_dxf.zip](#)

English

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Datasheets & Catalog Pages

[Active Ceramic Patch GNSS Antenna](#)

English

[Sub-6 Cellular LTE-5G NR Frequency Band Guide](#)

English

[Virtual Antenna](#)

English

[Microplatch Ground Plane Optimization](#)

English