

ANT-LTE-RPC-UFL ✓ ACTIVE

TE Internal #: ANT-LTE-RPC-UFL

PCB Antenna, Wide Band, Cellular / LTE, Internal/Embedded

Mount, Adhesive, Solder, Omnidirectional, Single Port, Gain > 6 dBi

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Antennas



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

Mounting Location: **Internal/Embedded**

Mounting Type: **Adhesive**

Antenna Termination: **Solder**

Antenna Type: **PCB**

Features

Product Type Features

Antenna Termination	Solder
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Configuration Features

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

Electrical Characteristics

VSWR (Max)	<2.5:1
Impedance	50 Ω

Signal Characteristics

Gain (Max)	3.6 dB
Frequency Band	617 – 698 MHz
Nominal Frequency Range	617 – 4200
Peak Gain	> 6 dBi

Body Features

Product Weight	3.2 g[.11287 oz]
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Mechanical Attachment



Polarization	Linear
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Mounting Type	Adhesive
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Dimensions

Cable Length	.1 m[.33 ft]
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Product Width	14.9 mm[.59 in]
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Product Length	98.4 mm[3.87 in]
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Product Height	.8 mm[.03 in]
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Operation/Application

Directionality	Omnidirectional
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Industry Standards

Wireless Application	Cat-M/NB-IoT, Cellular, LTE
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Primary Application	Cellular, LTE
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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
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EU ELV Directive 2000/53/EC	Not Yet Reviewed
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China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2023 (235)
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Candidate List Declared Against: JUNE 2023 (235)

SVHC > Threshold:

Pb (3.9% 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 Bromine/Chlorine - Br and Cl < 900 ppm per homogenous material. Also BFR /CFR/PVC Free
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Solder Process Capability	Not reviewed for solder process capability
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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 # ANT-LTE-RPC
Antenna Adh PCB RPC LTE 1.13 100



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



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



TE Part # CONUFL001-SMD
Conn UFL MHF Straight PCB Mount Jack

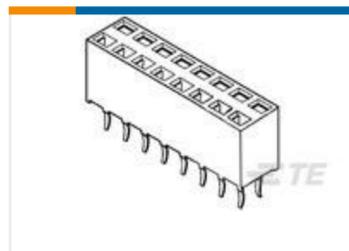


TE Part # CONUFL001-SMD-T
U.FL/MHF1 Jack 50 Ohm PCB Surface Mount

Customers Also Bought



TE Part #DT04-12PA-BL11
REC, 12P, GRY, E, ENH KEY, CAP, FLANGE,A



TE Part #215309-5
2X5P HV100 REC CON. TE, 8.5MM



TE Part #1747052-2
GIC7.92 2POS_HEADER ASS'Y RED KEYING A



TE Part #206837-3
CPC PLUG ASSEMBLY SIZE 23-24



TE Part #DT13-24PAB-R015
HDR, 24P, BLK, RA EEC, NI/CU, AB



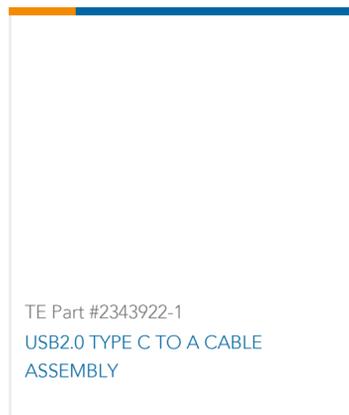
TE Part #1747050-2
GIC 7.92 2POS PLUG RED KEYING A



TE Part #ADP-SMAM-UFLF
SMA Plug to U.FL/MHF1 Jack



TE Part #L9000128-01
Antenna FPC 868/915MHz 1.13 100 UFL



Documents

Product Drawings

[Antenna LTE RPC PCB Adhes 100mm UFL](#)

English

Datasheets & Catalog Pages

[VHETH Antenna Series Ground Plane Optimization](#)

English

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

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[Considerations for Operation within the 260-470MHz Band](#)

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[Understanding Antenna Specifications and Operation](#)

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[Antennas Design, Application and Performance](#)

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[Antenna Color Codes](#)

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[The FCC Road Part 15 From Concept to Approval](#)

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[RF 101 Information for the RF Challenged](#)

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[LTE/LPWA Embedded Dipole Antenna](#)

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[Virtual Antenna](#)

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[Microslatch Ground Plane Optimization](#)

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