



TE Internal #: 2195846-1
 Flexible PCB (FPC) Antenna, Multi Band, 5G / Cat-M/NB-IoT /
 Cellular, Internal/Embedded Mount, Adhesive, UMCC / MHF1 /
 MHF, Omnidirectional

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Antennas



Wireless Application: 5G, Bluetooth, Cat-M/NB-IoT, Cellular, GNSS, GPS, LoRaWAN, LPWA, Wi-Fi, Zigbee

Mounting Location: Internal/Embedded

Mounting Type: Adhesive

Antenna Termination: MHF, MHF1, U.FL, UMCC

Antenna Type: Flexible PCB (FPC)

Features

Product Type Features

Antenna Termination	MHF, MHF1, U.FL, UMCC
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Configuration Features

Antenna Style	Flexible PCB
Mounting Location	Internal/Embedded
Antenna Type	Flexible PCB (FPC)
Band Type	Multi Band
Port Configuration	Single Port

Electrical Characteristics

Antenna Operation	Passive
VSWR (Max)	<4.0:1
Impedance	50 Ω

Signal Characteristics

Gain (Max)	4.99 dB
Frequency Band	698 – 960 MHz, 1560 – 1630 MHz, 1710 – 2700 MHz, 3200 – 3800 MHz, 4400 – 5000



MHz, 5150 – 5875 MHz, 5925 – 7125 MHz

Nominal Frequency Range	698 – 7125
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Peak Gain	3 < 6 dBi
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Body Features

Product Weight	1.5 g[.052 oz]
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Mechanical Attachment

Polarization	Linear
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Mounting Type	Adhesive
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Dimensions

Cable Length	.05 m[.16 ft]
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Product Width	15 mm[.59 in]
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Product Length	80 mm[3.149 in]
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Operation/Application

Wireless Standard	LTE, UMTS, US Dual, EU Triband & WCDMA
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Directionality	Omnidirectional
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Industry Standards

Wireless Application	5G, Bluetooth, Cat-M/NB-IoT, Cellular, GNSS, GPS, LoRaWAN, LPWA, Wi-Fi, Zigbee
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Primary Application	5G, Cat-M/NB-IoT, Cellular
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Product Availability

Applicable Region	Global
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Packaging Features

Packaging Method	Bag & Box
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Other

Precision Level	Standard
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Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006

Current ECHA Candidate List: JUNE 2023 (235)

Candidate List Declared Against: JUNE 2022 (224)

Does not contain REACH SVHC

Halogen Content

Low Bromine/Chlorine - Br and Cl < 900 ppm per homogenous material. Also BFR /CFR/PVC Free

Solder Process Capability

Not applicable 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 Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts



TE Part # 2337019-1
UMCC Micro-Coax receptacle, Gen 1



TE Part # L000810-01
PCB ANT, SMD, SCSP B-2b,2496-5000MHz


Customers Also Bought



TE Part #1734742-6
0.5mm FPC Connectors



TE Part #35106
TERMINAL,PIDG R 16-14HD 8



TE Part #280372-2
6P AMPMODU II SHRD HDR, ST, 0.38 AU



TE Part #1734248-4
1.0 FPC, ZIF V/T, SMT, 4P



Documents

CAD Files

[3D PDF](#)

[3D](#)

Customer View Model

[ENG_CVM_CVM_2195846-1_1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2195846-1_1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2195846-1_1.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[FPC ANT, MHF/MHF4L, 50-200mm, 698-7125MHz](#)

English

[2195846](#)

English

Product Specifications

[Product Specification](#)

English