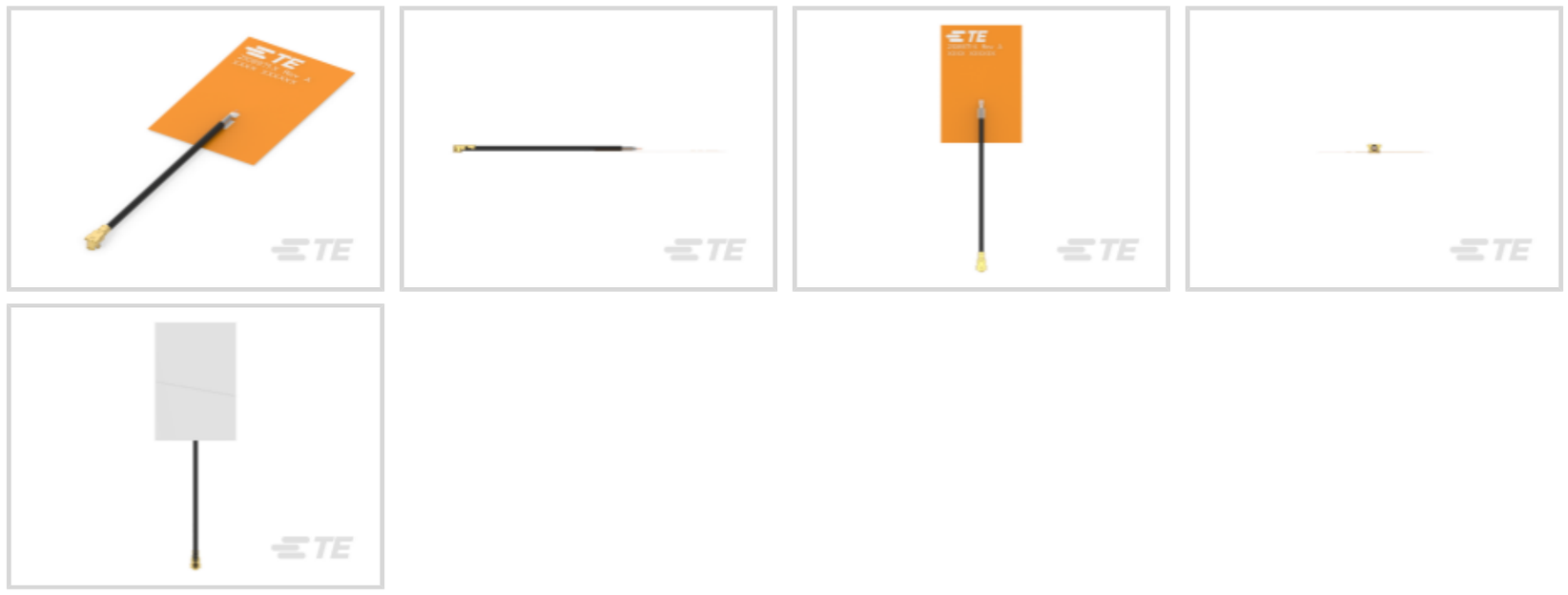
2108971-2 ✔ ACTIVE

TE Internal #: 2108971-2

Flexible PCB (FPC) Antenna, Wide Band, UWB, Internal/Embedded Mount, Adhesive, UMCC / U.FL / MHF, Omnidirectional, Gain 3 < 6 dBi

View on TE.com >

Antennas



Wireless Application: **UWB**

Mounting Location: **Internal/Embedded**

Mounting Type: **Adhesive**

Antenna Type: **Flexible PCB (FPC)**

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

Features

Product Type Features

Antenna Product Type	Antenna
Antenna Termination	MHF, MHF1, U.FL, UMCC

Configuration Features

Antenna Style	Flexible PCB
Mounting Location	Internal/Embedded
Antenna Type	Flexible PCB (FPC)
Band Type	Wide Band

Electrical Characteristics

Antenna Operation	Passive
VSWR (Max)	<1.9:1
Impedance	50 Ω

Signal Characteristics

Gain (Max)	4.1 dB
Frequency Band	3100 - 5000 MHz, 5900 - 8500 MHz

Peak Gain	3 < 6 dBi

Body Features

Product Weight	.94 g[.033 oz]

Mechanical Attachment

Polarization	Linear
Mounting Type	Adhesive

Dimensions

Cable Length	.1 m[.32 ft]
Product Width	35.1 mm[1.381 in]
Product Length	24.1 mm[.949 in]
Product Height	.15 mm[.006 in]

Operation/Application

Wireless Standard	UWB
Directionality	Omnidirectional

Industry Standards

Wireless Application	UWB
Primary Application	UWB

Product Availability

Applicable Region	Global

Packaging Features

Packaging Method	Bag & Box

Other

Precision Level	Standard

Product Compliance

For compliance documentation, visit the product page on TE.com>

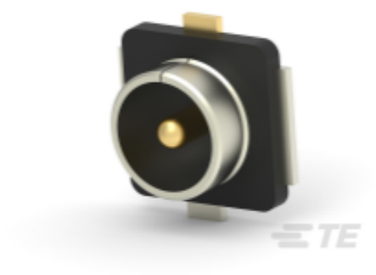
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240)

	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 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 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

Customers Also Bought



TE Part # DT04-2P
REC, 2P, GRY, N



TE Part # DT06-2S
PLG, 2P, GRY, N



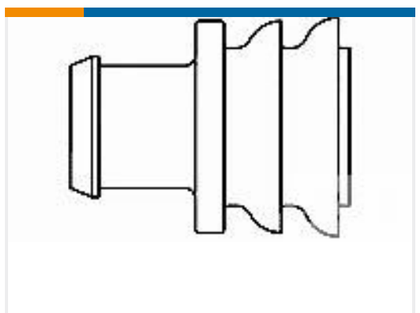
TE Part # W2S
Wedgelocks: DEUTSCH DT



TE Part # 0460-202-16141
DEUTSCH Solid Contacts



TE Part # 282104-1
AMP SUPERSEAL 1.5MM, CONNECTOR HOUSING



TE Part # 281934-2
SINGLE WIRE SEAL



TE Part # 114017-ZZ
SEALING PLUG, SIZE 12/16, WHT

Documents

Product Drawings

FPC ANT, MHF, 100mm, UWB 3~8.5 GHz

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2108971-2_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2108971-2_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2108971-2_1.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditionsof use.

Datasheets & Catalog Pages

2108921-X Antennas Application Notes

English

FPC ANT, MHF/MHF4L, UWB 3-8.5GHz

English

Product Specifications

Product Specification

English