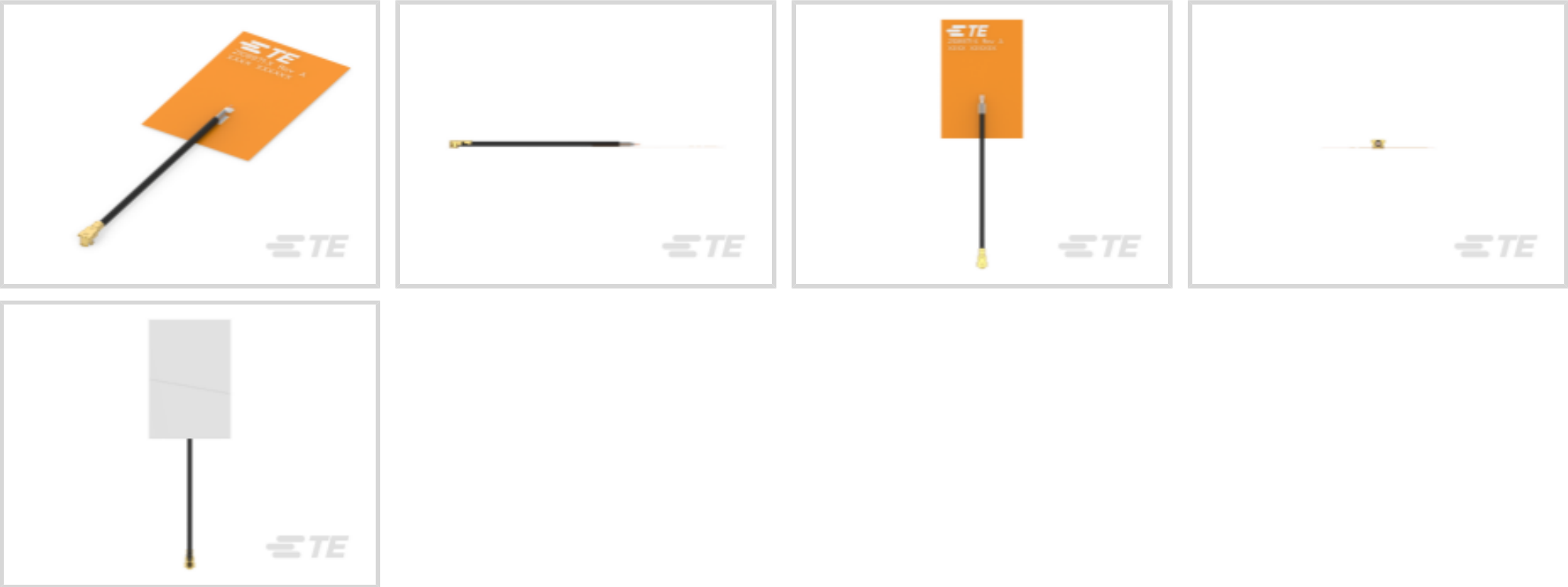


TE Internal #: 2108971-2
Flexible PCB (FPC) Antenna, Wide Band, UWB, Internal/Embedded
Mount, Adhesive Mount, MHF / MHF1 / U.FL, Omnidirectional, 3 <
6 dBi Peak Gain
[View on TE.com >](#)



Antennas



Communication Protocol: **UWB**
Mounting Location: **Internal/Embedded**
Mounting Type: **Adhesive Mount**
Antenna Type: **Flexible PCB (FPC)**
Antenna Termination: **MHF, MHF1, U.FL, UMCC**

Features

Product Type Features

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

Configuration Features

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

Electrical Characteristics

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

Signal Characteristics

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



Peak Gain	3 < 6 dBi
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Body Features

Product Weight	.41 g[.033 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Adhesive Mount

Dimensions

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

Operation/Application

Wireless Standard	UWB
Directionality	Omnidirectional

Industry Standards

Communication Protocol	UWB
Primary Application	UWB

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
EU ELV Directive 2000/53/EC	Out of Scope
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250)



Candidate List Declared Against: JAN 2025 (247)
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 #CAT-HST-RNF100-0
RNF-100-0 Heat Shrink Tubing



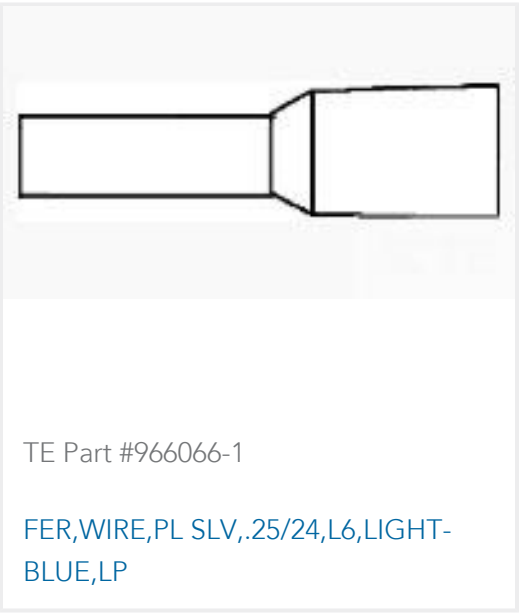
TE Part #1SNK508411R0000
ZS4-SF1-T2



TE Part #CAT-HST-RW175-E
RW-175-E Heat Shrink Tubing



TE Part #NB-PTCO-160
Pt100, 2.0x2.3, Class B, PTFC101B1A0



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 Conditions](#) of use.

Datasheets & Catalog Pages

2108921-X Antennas Application Notes

English

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

English

Product Specifications

Product Specification

English