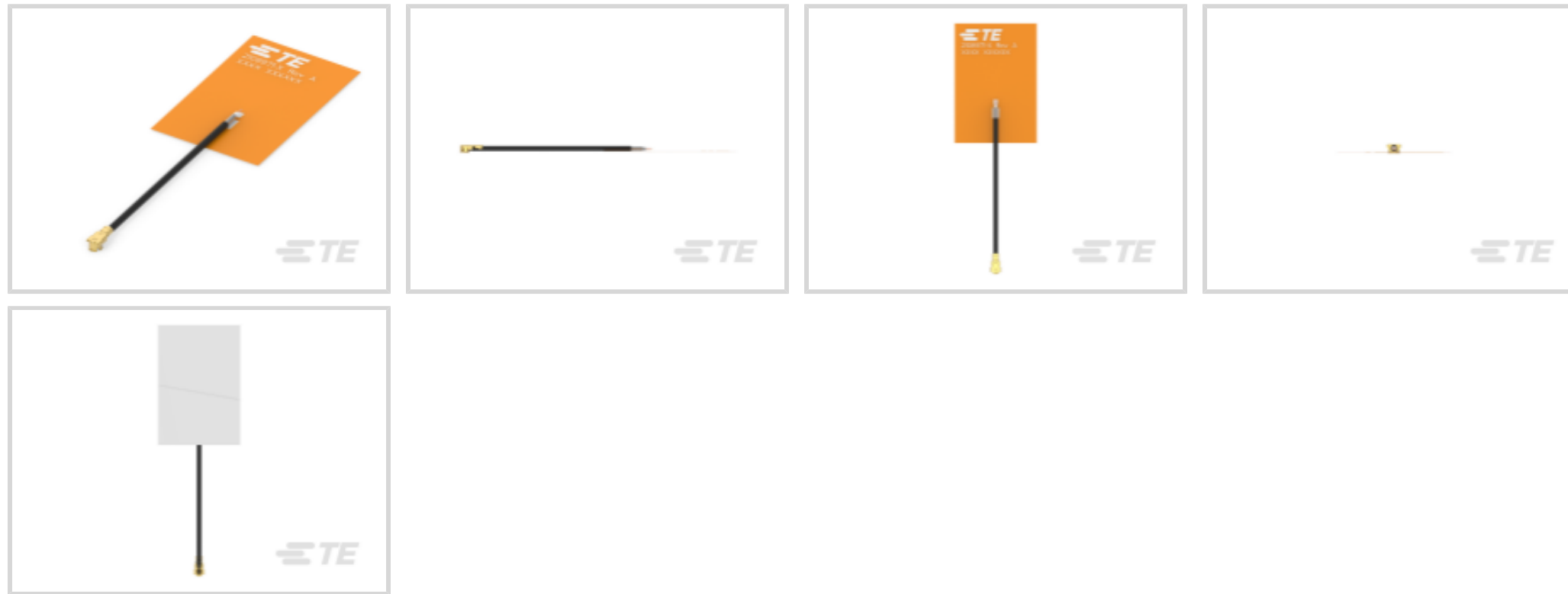




TE Internal #: 2108971-4  
 Flexible PCB (FPC) Antenna, Wide Band, UWB, Internal/Embedded  
 Mount, Adhesive, UMCC / U.FL / MHF1, Omnidirectional, Gain 3 <  
 6 dBi

[View on TE.com >](#)

Antennas



Wireless Application: **UWB**  
 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	Wide Band

**Electrical Characteristics**

Antenna Operation	Passive
VSWR (Max)	<1.6:1
Impedance	50 Ω

**Signal Characteristics**

Gain (Max)	3.5 dB
Frequency Band	3100 – 5000 MHz, 5900 – 8500 MHz
Peak Gain	3 < 6 dBi



### Body Features

Product Weight	1.39 g[.049 oz]
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### Mechanical Attachment

Polarization	Linear
Mounting Type	Adhesive

### Dimensions

Cable Length	.2 m[.65 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
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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	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: JUNE 2023 (235) Candidate List Declared Against: JAN 2023 (233) 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



## Documents

## Product Drawings

FPC ANT, MHF, 200mm, UWB 3~8.5 GHz

English

## CAD Files

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2108971-4\\_1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2108971-4\\_1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2108971-4\\_1.3d\\_stp.zip](#)

English

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



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### Datasheets & Catalog Pages

[2108921-X Antennas Application Notes](#)

English

[FPC ANT, MHF/MHF4L, UWB 3-8.5GHz](#)

English

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### Product Specifications

[Product Specification](#)

English

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### Product Environmental Compliance

[Product Compliance](#)

English

[Product Compliance](#)

English