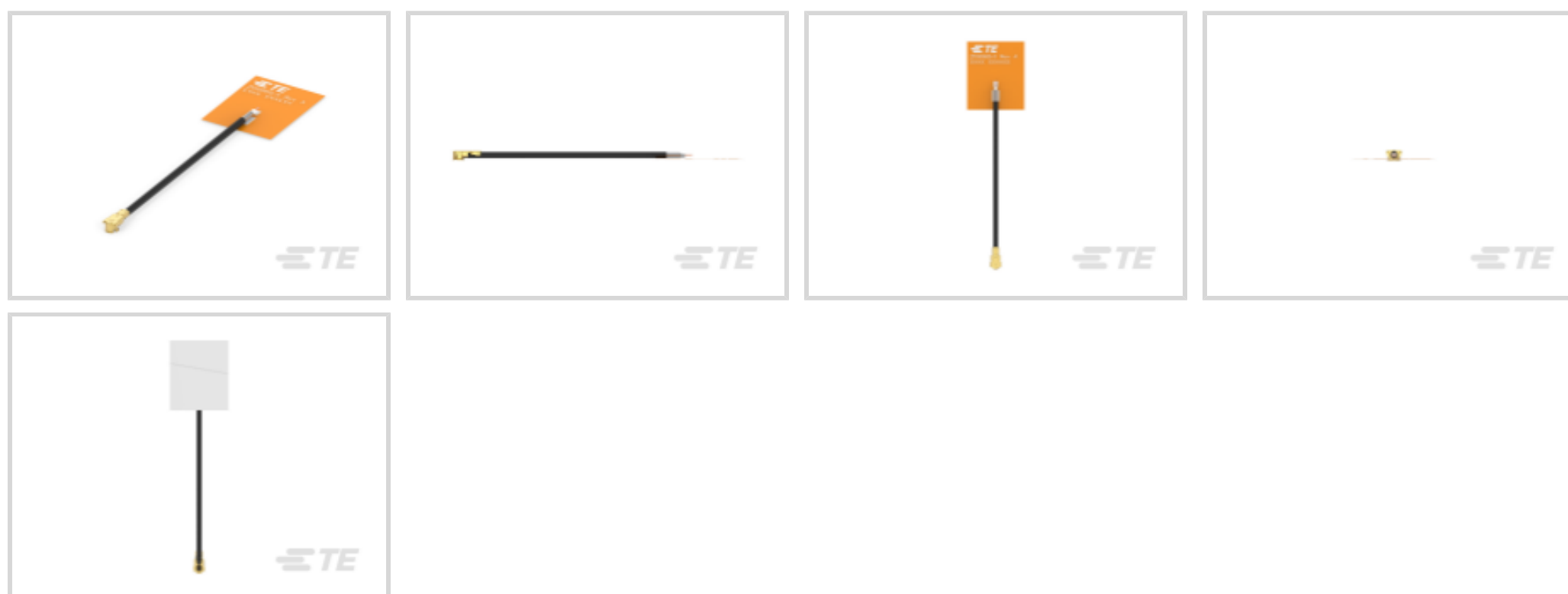




TE Internal #: 2108965-2
 Flexible PCB (FPC) Antenna, Wide Band, UWB, Internal/Embedded
 Mount, Adhesive, MHF1 / UMCC / U.FL, Omnidirectional, Gain 3 <
 6 dBi

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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)	<2.1:1
Impedance	50 Ω

Signal Characteristics

Gain (Max)	4 dB
Frequency Band	5900 – 8500 MHz
Peak Gain	3 < 6 dBi



Body Features

Product Weight	.67 g[.024 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Adhesive

Dimensions

Cable Length	.1 m[.32 ft]
Product Width	18.6 mm[.732 in]
Product Length	15.6 mm[.614 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: JUNE 2023 (235) Does not contain REACH SVHC

Halogen Content

BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.

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, 100mm, UWB 6~8.5 GHz

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_2108965-2_1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2108965-2_1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2108965-2_1.3d_stp.zip](#)

English

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



Datasheets & Catalog Pages

[2108965-X Antennas Application Notes](#)

English

[FPC ANT, MHF/MHF4L, UWB 6-8.5GHz](#)

English

Product Specifications

[Product Specification](#)

English

Product Environmental Compliance

[Product Compliance](#)

English

[Product Compliance](#)

English