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Antennas



Mounting Location: **Internal/Embedded**

Mounting Type: **Adhesive**

Frequency Category: **410 – 470**

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

Antenna Termination: **MHF4**

**Features**

**Product Type Features**

Antenna Termination	MHF4
Antenna Product Type	Antenna

**Configuration Features**

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

**Electrical Characteristics**

Antenna Operation	Passive
VSWR (Max)	<1.3:1
Impedance	50 Ω

**Signal Characteristics**

Frequency Band	410 – 470 MHz
Frequency Category	410 – 470
Peak Gain	0 < 3 dBi



### Body Features

Product Weight	.2 g[.007 oz]
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### Mechanical Attachment

Polarization	Linear
Mounting Type	Adhesive

### Dimensions

Cable Insulation Diameter (Max)	1.13 mm[.044 in]
Cable Length	.05 m[.16 ft]
Product Width	20 mm[.787 in]
Product Length	100 mm[3.937 in]
Product Height	.13 mm[.005 in]

### Operation/Application

Wireless Standard	433 ISM
Directionality	Omnidirectional

### Product Availability

Applicable Region	Global
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### Packaging Features

Packaging Method	Bag/Carton
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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	Not Yet Reviewed
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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

## Compatible Parts



## Documents

## Product Drawings

ISM FPC ANT HDP MHF4L 50mm 410-435 MHz

English

## CAD Files

3D PDF

3D

## Customer View Model

ENG\_CVM\_CVM\_L000604-04\_1.2d\_dxf.zip

English

## Customer View Model

ENG\_CVM\_CVM\_L000604-04\_1.3d\_igs.zip

English

## Customer View Model

ENG\_CVM\_CVM\_L000604-04\_1.3d\_stp.zip

English

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



**Datasheets & Catalog Pages**

**ISM 433 MHz FPC ANTENNAS**

English

[dnd-flyer-ISM-LPWA-en](#)

English

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**Product Specifications**

**Product Specification**

English