



ISM 915 MHz HDP LPWAN FPC ANTENNAS

FEATURES & BENEFITS

- 915 MHz ISM antenna for LoRaWAN and other IoT products
- For use in European Union (EU) and other global regions (Non-Americas regions)
- Available cable lengths: 50, 100 ,150 mm
- Available connectors: MHF-type, MHFL4-type
- FPC with double side adhesive tape simplifies mounting within the device even on curved areas
- Omnidirectional coverage

MATING COMPONENTS TO PART NUMBERS AND DIMENSIONS

PART NUMBER	CABLE LE	CONNECTOR TYPE	
	MM	INCH	(ON CABLE)
L000550-01	50	1.97	MHF-TYPE PLUG
L000550-02	100	3.93	MHF-TYPE PLUG
L000550-03	150	5.90	MHF-TYPE PLUG
L000550-04	50	1.97	MHF4L-TYPE PLUG
L000550-05	100	3.93	MHF4L-TYPE PLUG
L000550-06	150	5.90	MHF4L-TYPE PLUG

SPECIFICATIONS

(Shown with 100 mm cable, Others can vary with different cable)

Frequency Range (MHz)	902-928 MHz		
VSWR	< 1.5:1		
Average Efficiency	43 %		
Peak Gain	1.5 dBi		
Average Gain	-3.6 dBi		
Power Handling	10 Watt cw		
Feed Point Impedance	50 ohms		
Polarization	Linear		
Size	35 mm x 9.2 mm x 2 mm		
Weight	<1g		
Mounting	Adhesive		
Mating Connectors	MHF1 and MHF4 type, Refer to page 6		
Cable	1.13mm Dia.		
Operating / Storage Temperature	-40 to +85°C		
Hazardous Materials	A certificate of conformance is available from the product page on TE website.		

ANTENNA RF SPECIFICATIONS WITH DIFFERENT CABLE ASSEMBLIES

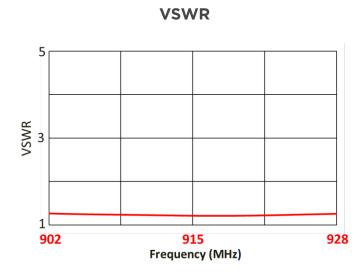
Cable Length / Cable OD 117 mm	RF DATA	Frequency Range (MHz)	
Cable Length / Cable OD 1.13 mm	RF DATA	902 - 928	
	VSWR	< 2.0:1	
FO	Average Efficiency	44 %	
50 mm	Peak Gain (Max)	1.5 dBi	
	Average Gain	-3.6 dBi	
	VSWR	< .1.5:1	
100	Average Efficiency	43%	
100 mm	Peak Gain (Max)	1.5 dBi	
	Average Gain	-3.6 dBi	
	VSWR	< 2.0:1	
150	Average Efficiency	42 %	
150 mm	Peak Gain (Max)	1.3 dBi	
	Average Gain	-3.8 dBi	

CABLE LOSS

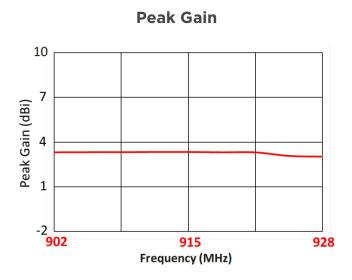
OD 1.13mm (P/N: L000550-01-06)			
Freq. Range (MHz)	902 - 928		
Cable attenuation (dB/m)	< 0.33		

RF DATA

(Shown with 100 mm cable: Others vary with different cable lengths.)







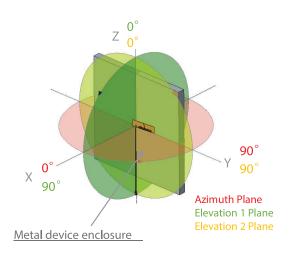


Data measured in free space and on 1.8 mm thick PC plastic

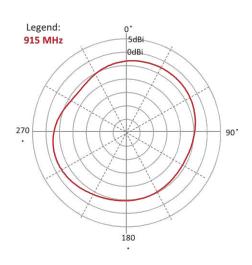
RADIATION PATTERN

(Shown with 100 mm cable: Others vary with different cable lengths.)

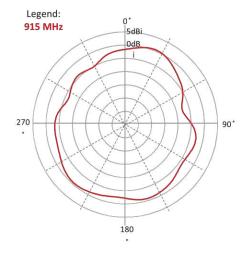
Test setup



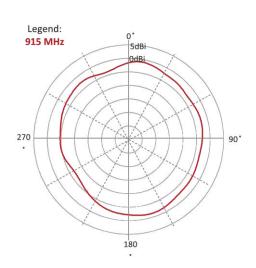
Azimuth



Elevation 1

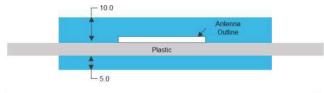


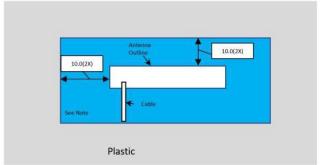
Elevation 2



Data measured in free space and on 1.8 mm thick PC plastic

KEEP OUT AREA





NOTES

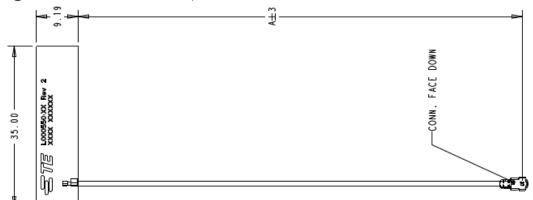
- 1. Antenna designed to be mounted on plastic cover.
- 2. Area in blue indicates Keep Out Area
- 3. Contact TE if Keep Out Area cannot be guaranteed.

Dimension: mm

Diagrams is not into scale

DIMENSIONS

(Refer to Page 6 for dimension "A")



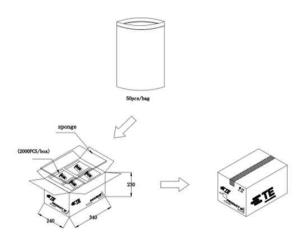
Dimension: mm

Diagrams is not into scale

MATING COMPONENTS TO PART NUMBERS AND DIMENSIONS

PART NUMBER	CABLE LENGTH (A)		CABLE O.D	CONNECTOR TYPE	MATING COMPONENTS	
	ММ	INCH	ММ	(ON CABLE)	PART NUMBER	IMAGE
L000550-01	50	1.97	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
L000550-02	100	3.93	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
L000550-03	150	5.90	1.13	MHF-TYPE PLUG	RECEPTACLE (TE PN: 2337019-1)	
L000550-04	50	1.97	1.13	MHF4L-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
L000550-05	100	3.93	1.13	MHF4L-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	
L000550-06	150	5.90	1.13	MHF4L-TYPE PLUG	RECEPTACLE (TE PN: 2334884-1)	

PACKAGING



TE TECHNICAL SUPPORT CENTER

USA: +1 (800) 522-6752 Canada: +1 (905) 475-6222 +52 (0) 55-1106-0800 Latin/S. America: +54 (0) 11-4733-2200 +49 (0) 6251-133-1999 Germany: UK: +44 (0) 800-267666 +33 (0) 1-3420-8686 France: Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015

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