

Datasheet

LoRa 868 & 915MHz

Internal Antenna

 $38.6 \times 9.6 \times 0.2$ mm

FPCB Antenna

Features:

This LoRa antenna is designed as FPCB antenna with compact size, easy integration and can be directly connected to products.

Applications:

IoT devices
Security
Sensors
Monitoring



Electrical Specifications

Antenna Characteristics

Antenna Type	Radiation Pattern	Polarization	Max. Input Power	Impedance
FPCB Antenna	Omni	Linear	1W	50Ω

Frequency (MHz)	863~873	902~928
Return Loss (dB)	< -10	< -10
Peak Gain (dBi)	0.4	0.5
Average Gain (dB)	-3.8	-3.7
Efficiency (%)	41	43

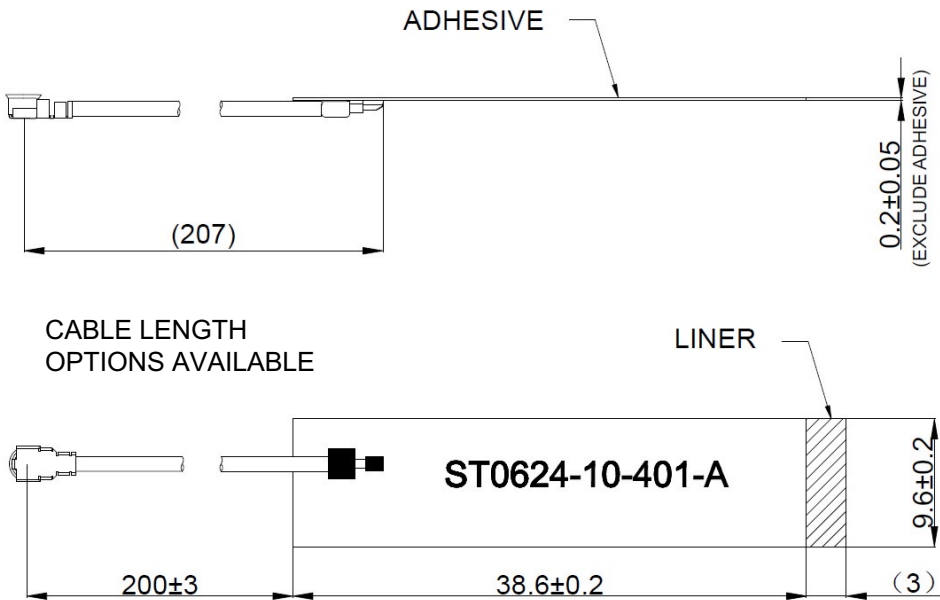
Mechanical Specifications

Mechanical	
Dimension (mm)	38.6 × 9.6 × 0.2
Connector Type	I-PEX MHF 1
Cable Type	Coaxial Cable Ø 1.13
Adhesive.	3M 468MP
Material	PI
Weight (g)	0.83

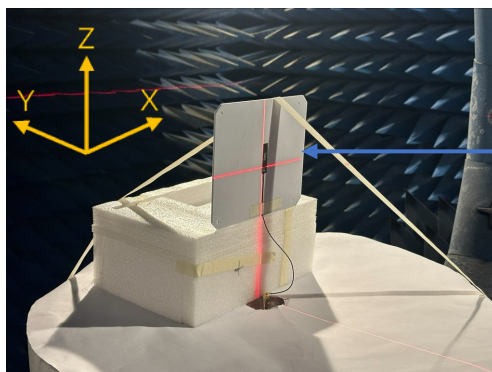
Environmental	
Temperature Range (°C)	-30 to 75
Humidity	Non-condensing 5% to 95% RH
RoHS Compliant	

Mechanical Drawing

Unit : mm

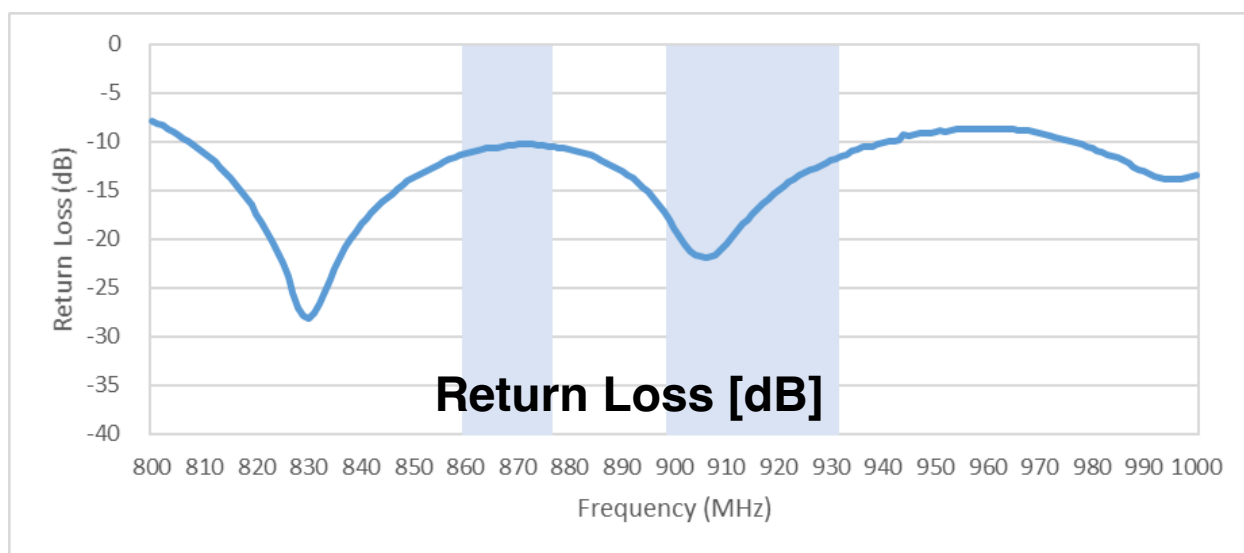


Charts In Free Space

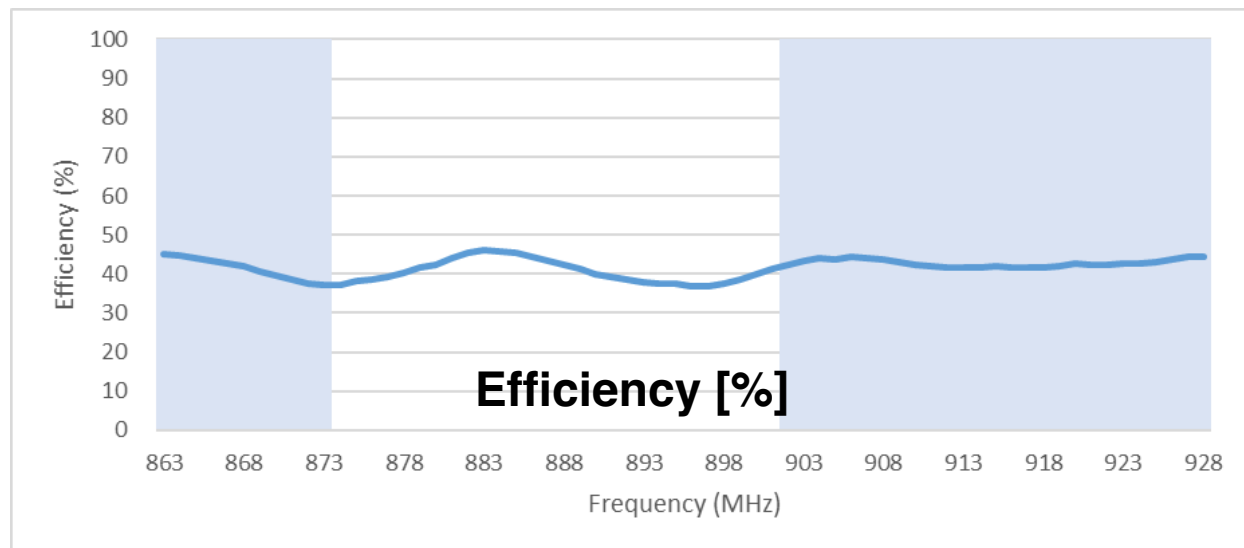


ST0624-10-401-A

Test setup, measurement performed in 3D anechoic chamber.

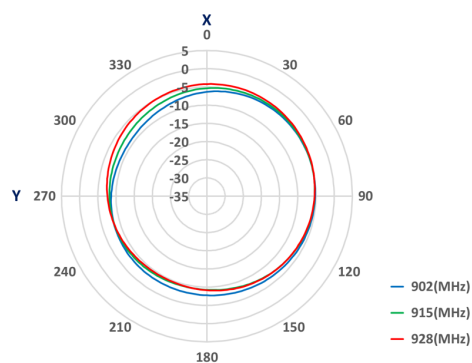
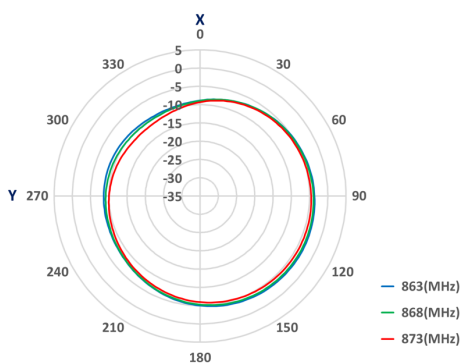


Blue background represents frequency response.

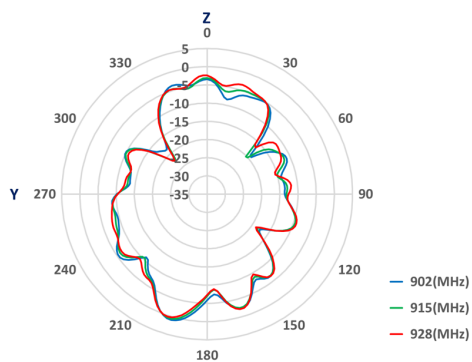
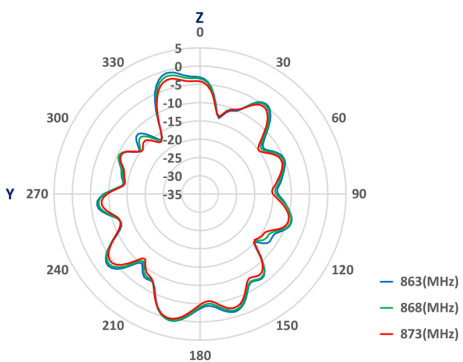


Radiation Pattern - Free Space

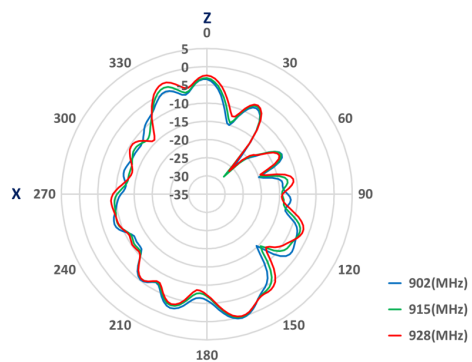
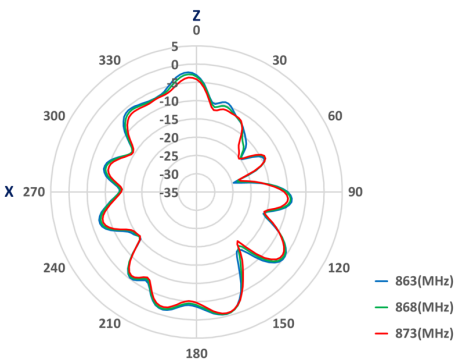
XY - Plane



YZ - Plane



XZ - Plane



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-12-14	ST0624-10-401-A-RA00	ATC

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