

Datasheet

2.4-2.5GHz Internal Antenna

Features:

Adhesive backing on the PCB simplifies mounting within the device
Compact size
PCB antenna assembly

Applications:

Smart metering and utilities
Zigbee/IEEE 802.15.4 wireless data networks.
Quick service restaurants
Medical devices



30.0 × 8.5 × 0.8 mm

PCB Antenna



Electrical Specifications

Antenna Characteristics

Antenna Type	Radiation Pattern	Polarization	Max. Input Power	Impedance
PCB Antenna	Omni	Linear	1W	50Ω
Frequency (MHz)	2400~2500			
Return Loss (dB)	< -10			
Peak Gain (dBi)	1.8			
Average Gain (dB)	-1.3			
Efficiency (%)	74			

Mechanical Specifications

Mechanical

Dimension (mm)	30.0 × 8.5 × 0.8
Connector Type	I-PEX MHF 1
Cable Type	Coaxial Cable Ø 1.13
Adhesive	PE Foam
Material	FR-4
Weight (g)	0.9

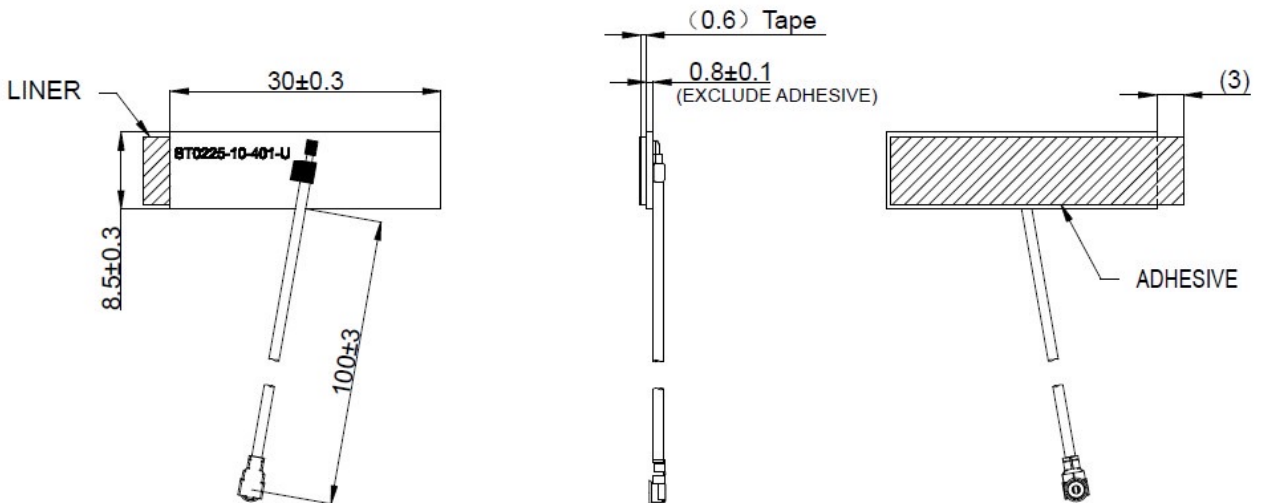
Environmental

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

RoHS Compliant

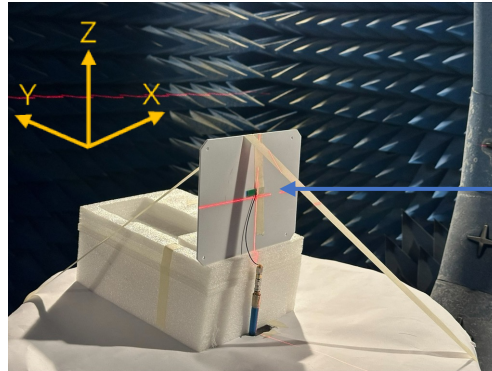
Mechanical Drawing

Unit : mm



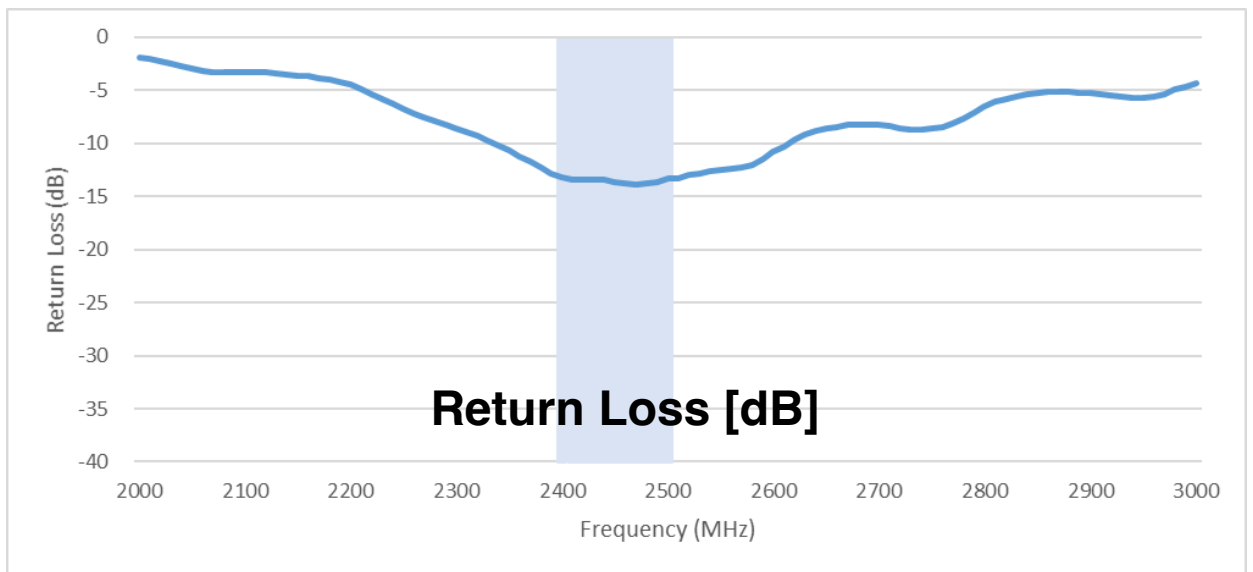
CABLE LENGTH
OPTIONS AVAILABLE

Charts In Free Space

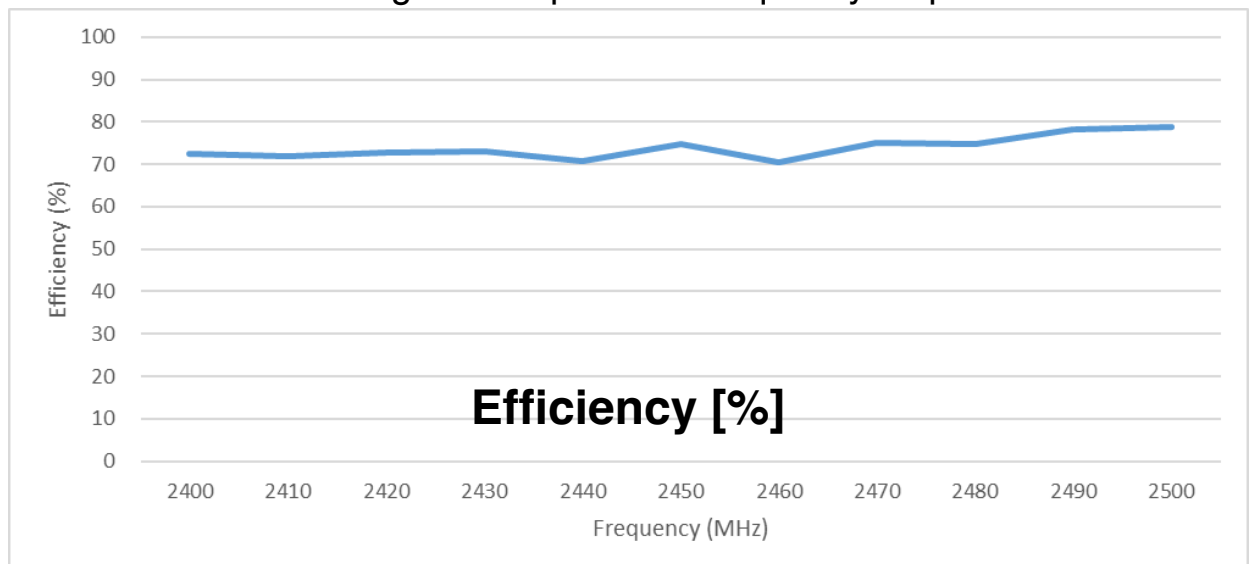


ST0225-10-401-U

Test setup, measurement performed in 3D anechoic chamber.

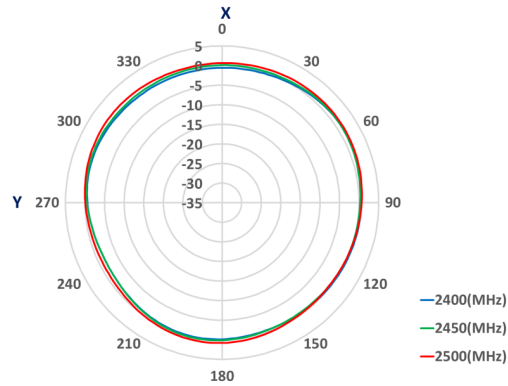


Blue background represents frequency response.

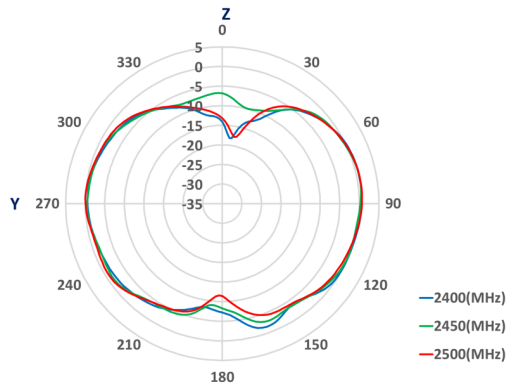


Radiation Pattern - Free Space

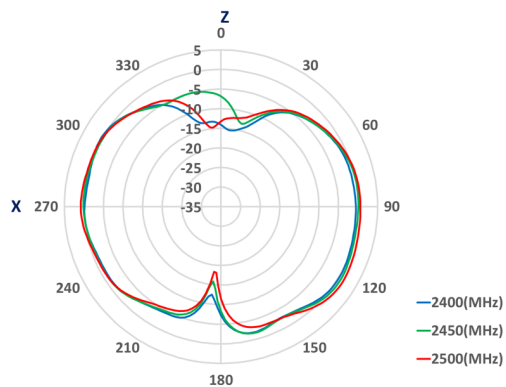
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-11-21	ST0225-10-401-U-RA00	ATC

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