

Datasheet

RFID Antenna

902MHz – 928MHz



Panel Antenna

Features:

Directional antenna and built for 902MHz to 928MHz band frequency; resulting in high performance, durable, lightweight, and UV resistant construction with N-Type Connector. Certified as IP67 for indoor/outdoor.

Applications:

- Warehouse
- Distribution center.
- Transit terminals
- Wireless Video Systems.

**Electrical Specifications****Antenna Characteristics**

Antenna Type	Radiation Pattern	Polarization	Max. Input Power	Impedance
Panel Antenna	Directional	Linear	15W	50Ω
Frequency (MHz)			902~928	
Return Loss (dB) @Center Frequency			< -17.6	
Peak Gain (dBi)			9.6	
Average Gain (dB)			-1.0	
Efficiency (%)			79	
Half Power Beam Width (°) @YZ-Plane / XZ-Plane			64 / 68	

Mechanical Specifications

Mechanical

Dimension (mm)	230.0 × 230.0 × 46.3
Material	ABS+PC+UV
Connector Type	N-type (Jack)
Mounting Type	Bracket Mount
Antenna Weight (g)	535.0
Accessories Weight (g)	255.0

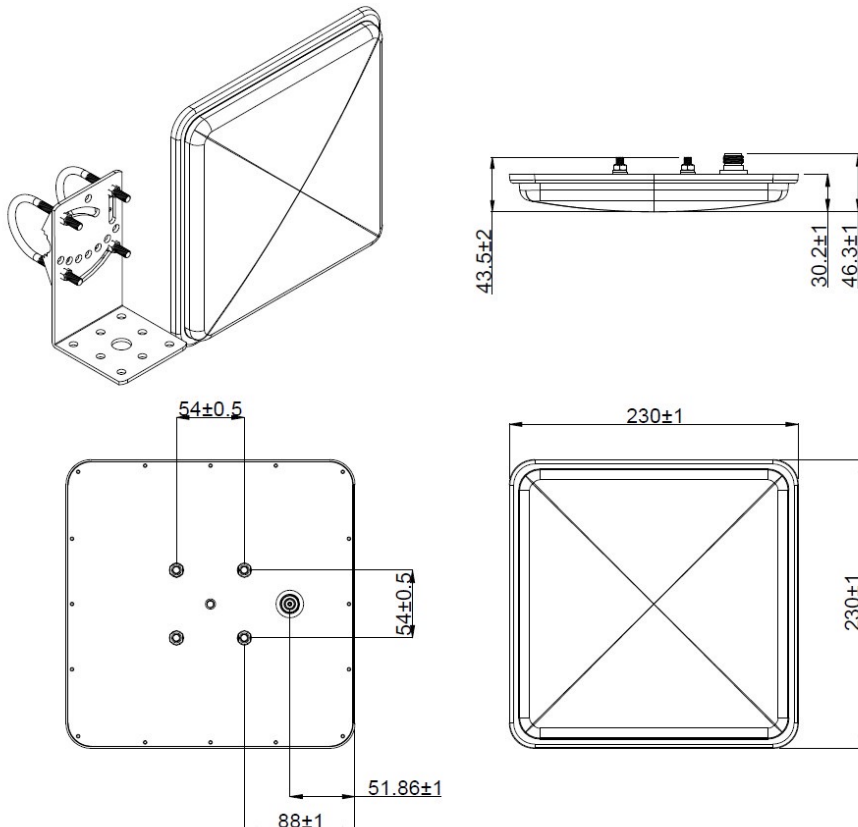
Environmental

Temperature Range (°C)	-20 to 60
Humidity	Non-condensing 10% to 80% RH

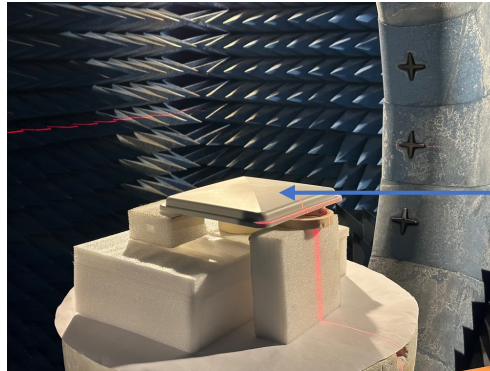
RoHS Compliant

Mechanical Drawing

Unit : mm

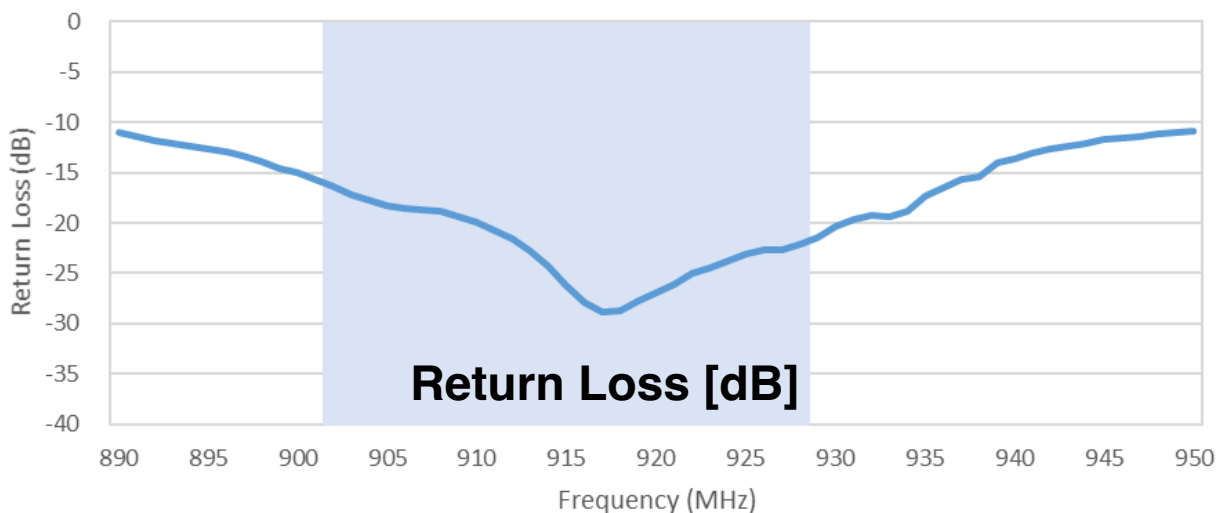


Charts In Free Space

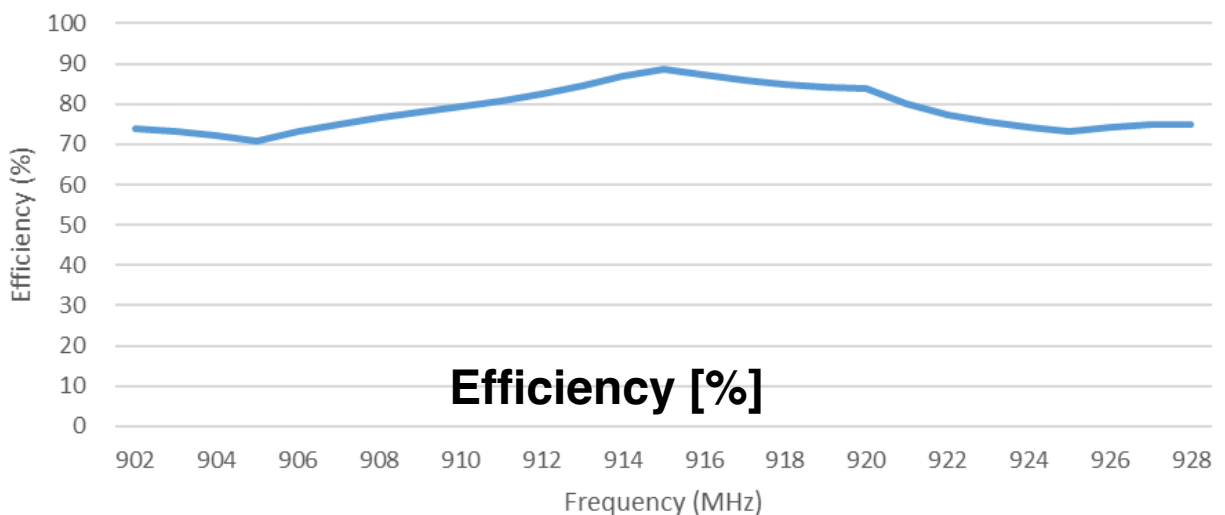


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Test setup, measurement performed in 3D anechoic chamber.

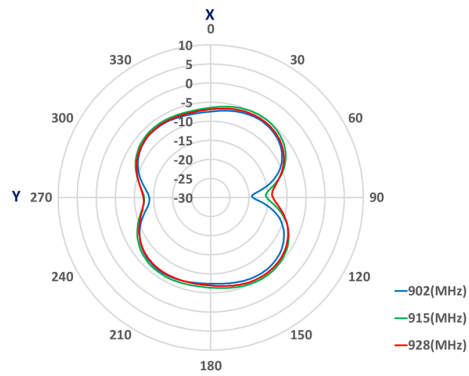


Blue background represents frequency response.

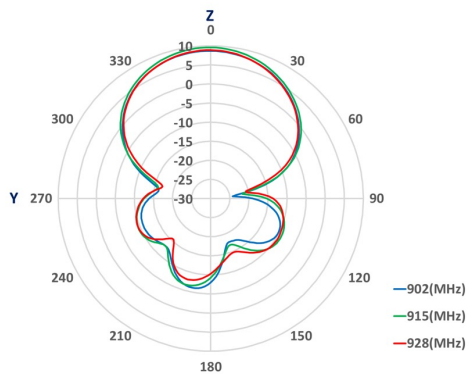


Radiation Pattern - Free Space

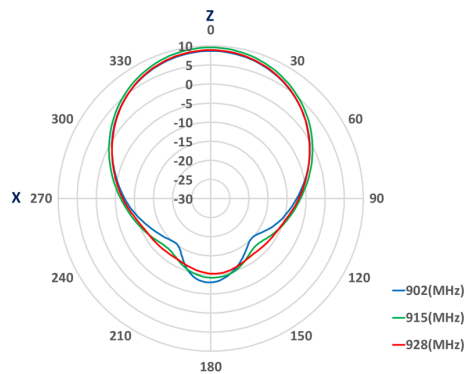
XY - Plane



YZ - Plane



XZ - Plane



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-10-25	ST0623-44-201-B-RA00	ATC

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