

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

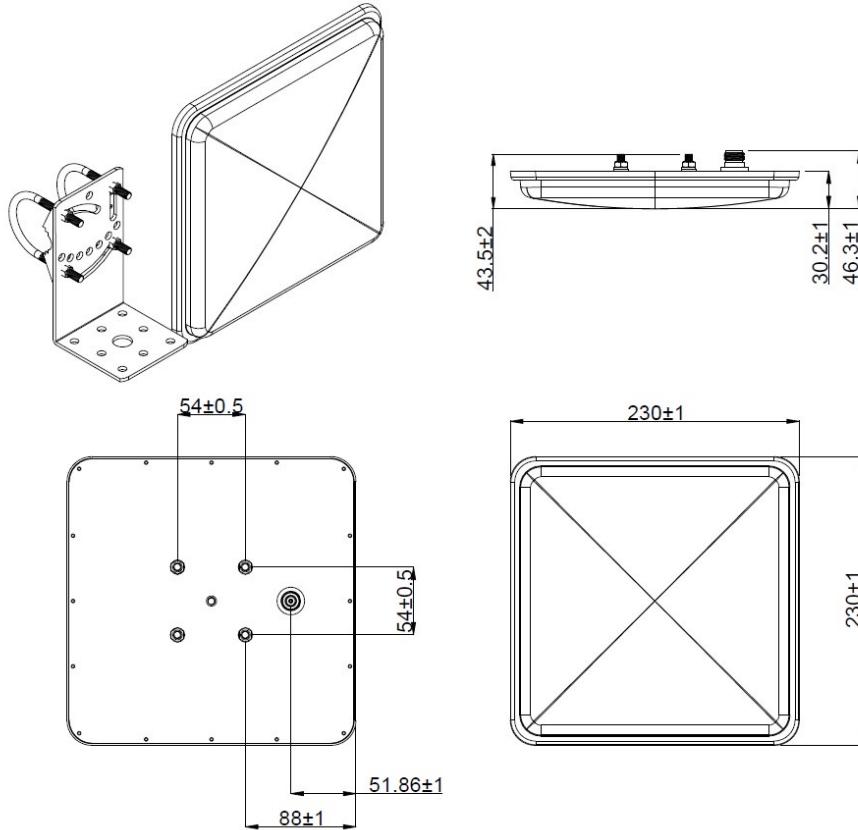
Dimension (mm)	230.0 x 230.0 x 46.3
Material	ABS+PC+UV
Connector Type	N-type (Jack)
Mounting Type	Bracket Mount
Antenna Weight (g)	535.0
Accessories Weight (g)	255.0

Environmental

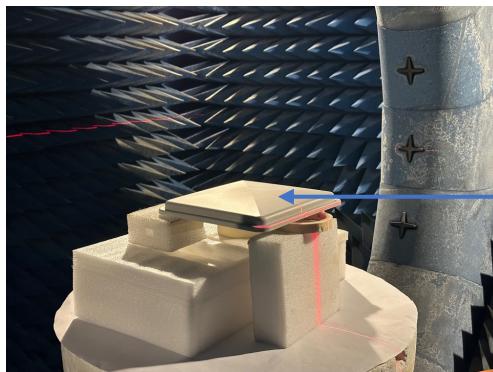
Temperature Range (°C)	-20 to 60
Humidity	Non-condensing 10% to 80% RH
	RoHS Compliant

Mechanical Drawing

Unit : mm

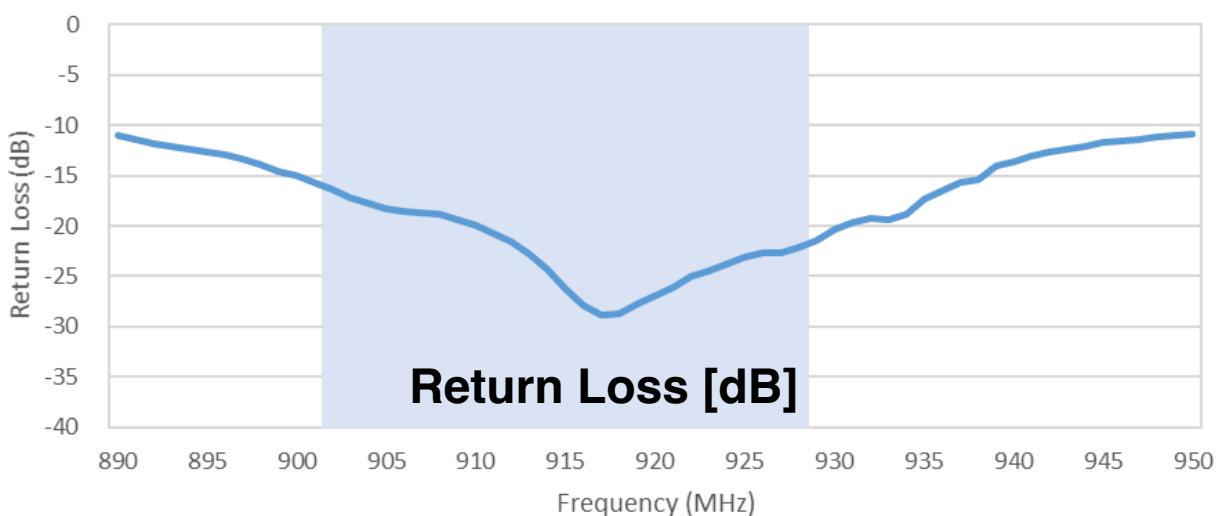


Charts In Free Space

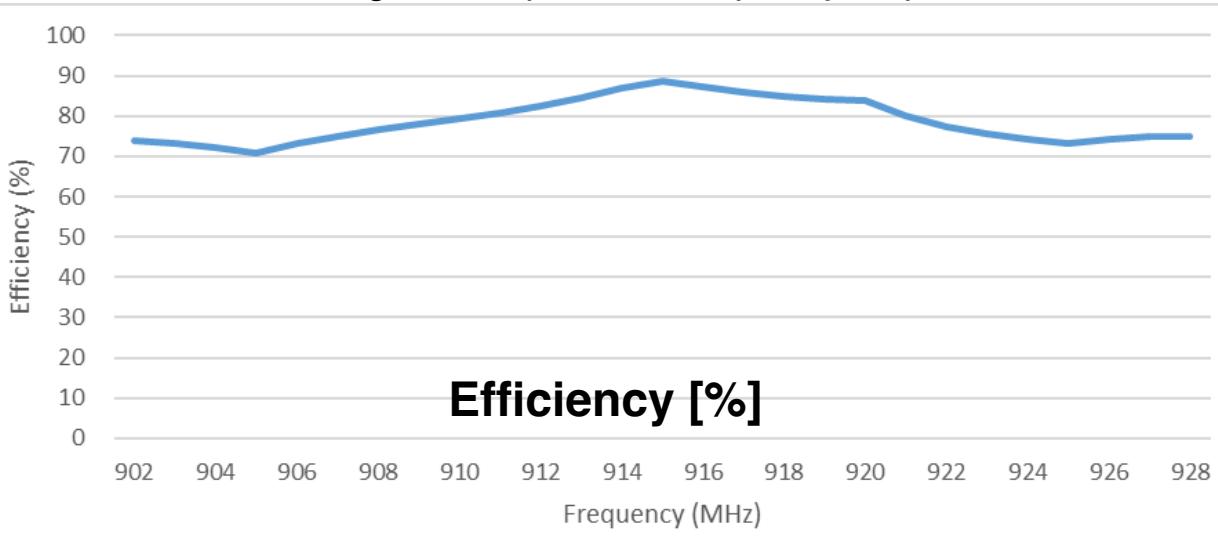


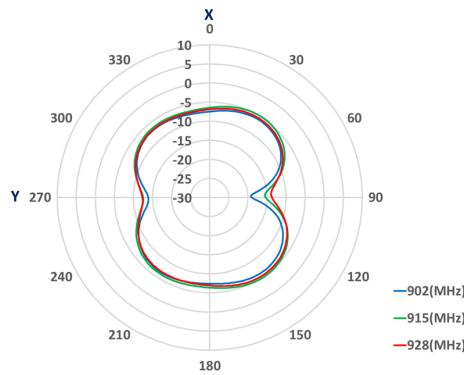
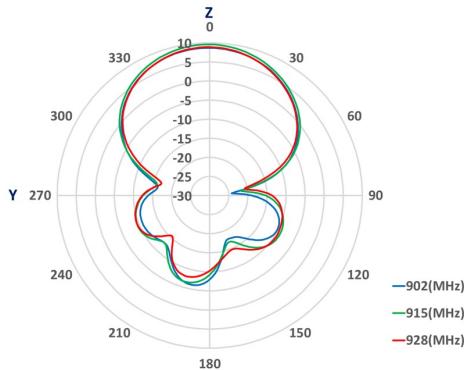
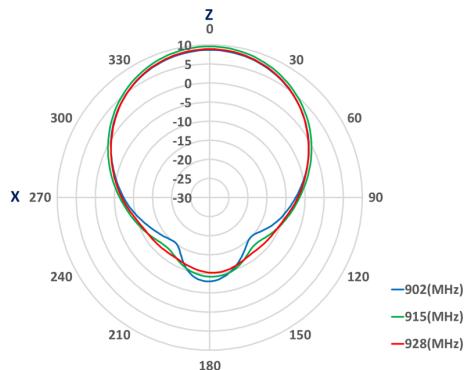
ST0623-44-201-B

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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