

Datasheet

5.8~5.9GHz

External



DSRC Antenna

Features:

It features high gain and Omni-directional pattern, making it compatible with DSRC system and related application.

Applications:

- CPE Router, Set top boxes & Gateway
- IoT devices
- Vehicle infrastructure
- Toll collection device
- Parking payment system



Electrical Specifications

Antenna Characteristics

Antenna Type	Radiation Pattern	Polarization	Max. Input Power	Impedance
Stick Antenna	Omni	Linear	1W	50Ω
Frequency (GHz)	5.85~5.925			
Return Loss (dB)	< -10			
Peak Gain (dBi)	6.8			
Average Gain (dB)	-1.4			
Efficiency (%)	73			

Mechanical Specifications

Mechanical

Dimension (mm)	215.0
Connector Type	N-type (Plug)
Material	PC
Weight (g)	68.1

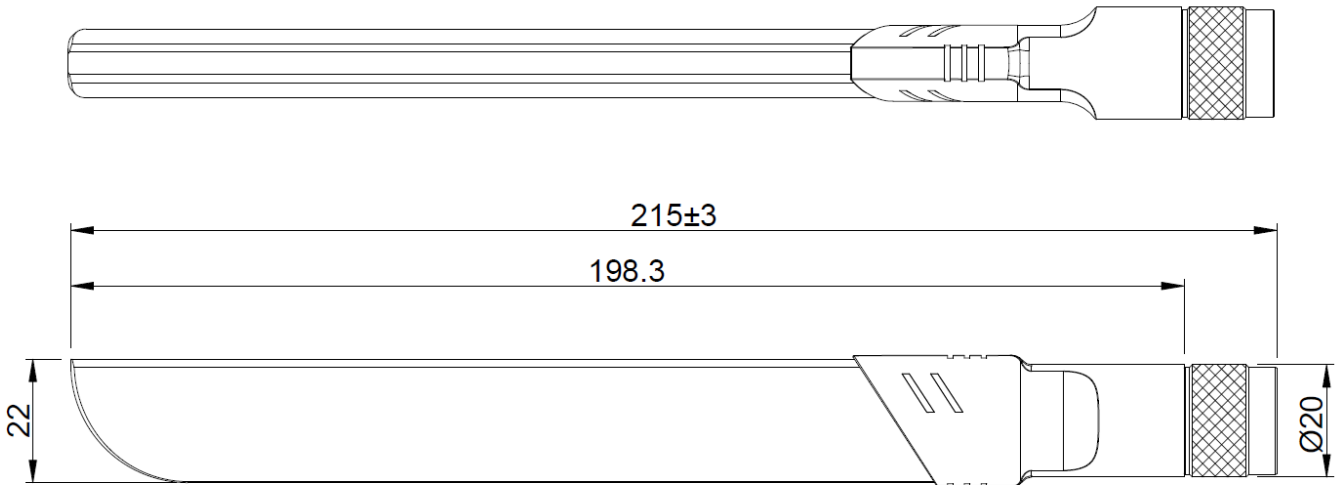
Environmental

Temperature Range (°C)	-40 to 85
IP Rating	IP67

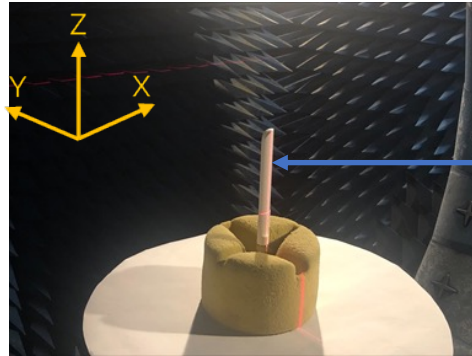
RoHS Compliant

Mechanical Drawing

Unit : mm



Charts In Free Space

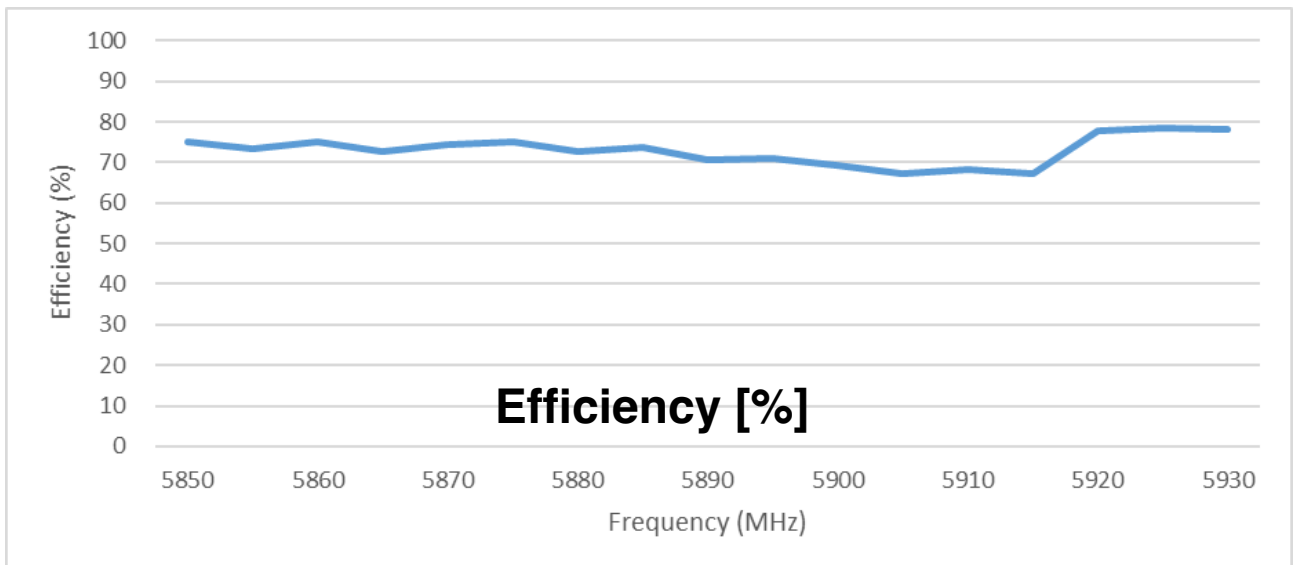


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Test setup, measurement performed in 3D anechoic chamber.

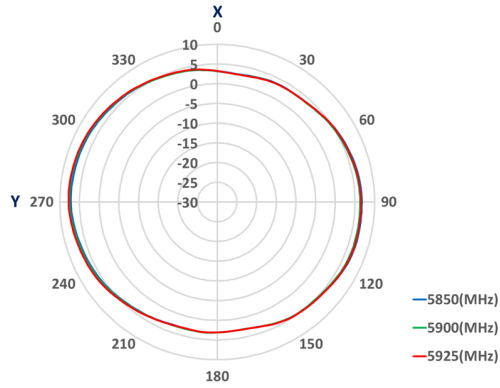


Blue background represents frequency response.

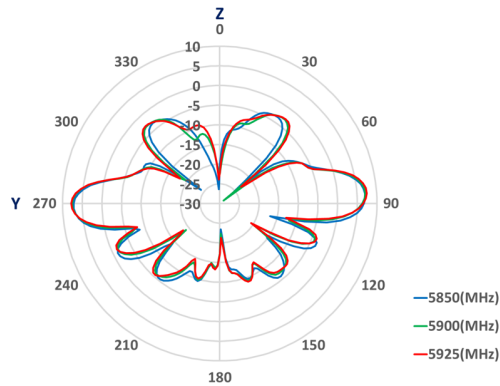


Radiation Pattern - Free Space

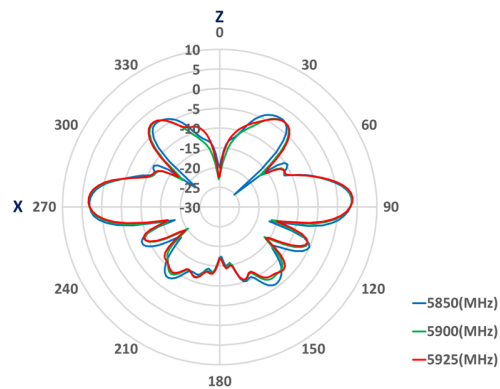
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-09-03	ST0226-41-302-B-RA00	ATC

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