

Datasheet

0.69-0.96GHz & 1.7-2.7GHz

Internal Antenna

Features:

Flexible embedded and high performing full 4G LTE band antenna with 1.37mm coaxial cable for indoor applications.

Applications:

- CPE - Router, Set-top boxes & Gateway
- IoT devices
- 4G LTE
- Smart Metering
- Smart Home Networking

 $117 \times 9.5 \times 0.25 \text{ mm}$ **FPC Antenna****Electrical Specifications****Antenna Characteristics**

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

Frequency (GHz)	0.698~0.96	1.71~2.17	2.3~2.69
Return Loss (dB)	< -6	< -6	< -6
Peak Gain (dBi)	2.2	4.5	3.0
Average Gain (dB)	-3.6	-3.0	-3.9
Efficiency (%)	44	50	41

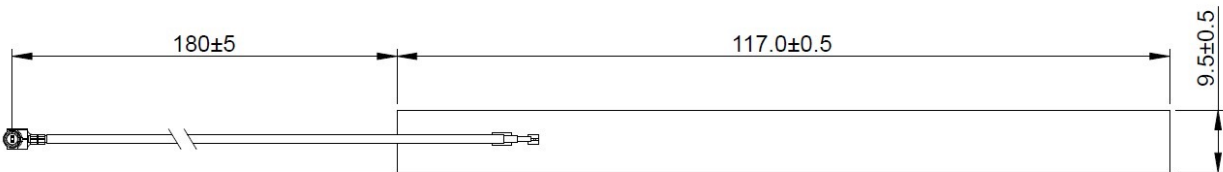
Mechanical Specifications

Mechanical	
Dimension (mm)	117.0 × 9.5 × 0.25
Connector Type	I-PEX MHF 1
Cable Type	Coaxial Cable Ø 1.37, Gray
Cable length (mm)	180
Weight (g)	1.4

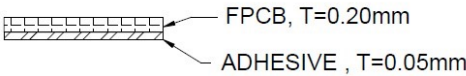
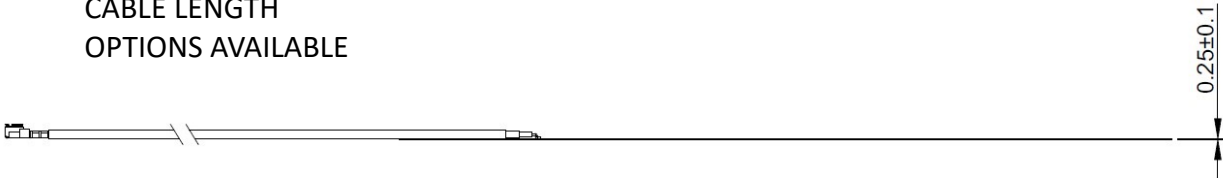
Environmental	
Temperature Range (°C)	-30 to 70
Humidity	Non-condensing 65°C 95% RH
RoHS Compliant	

Mechanical Drawing

Unit : mm

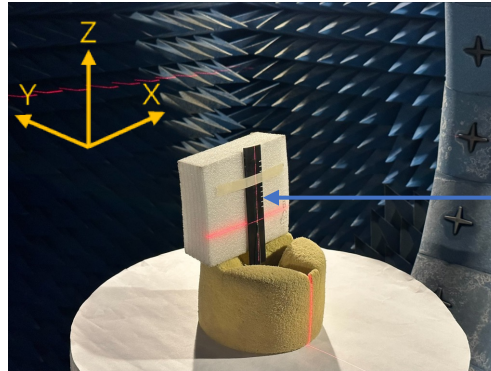


CABLE LENGTH
OPTIONS AVAILABLE



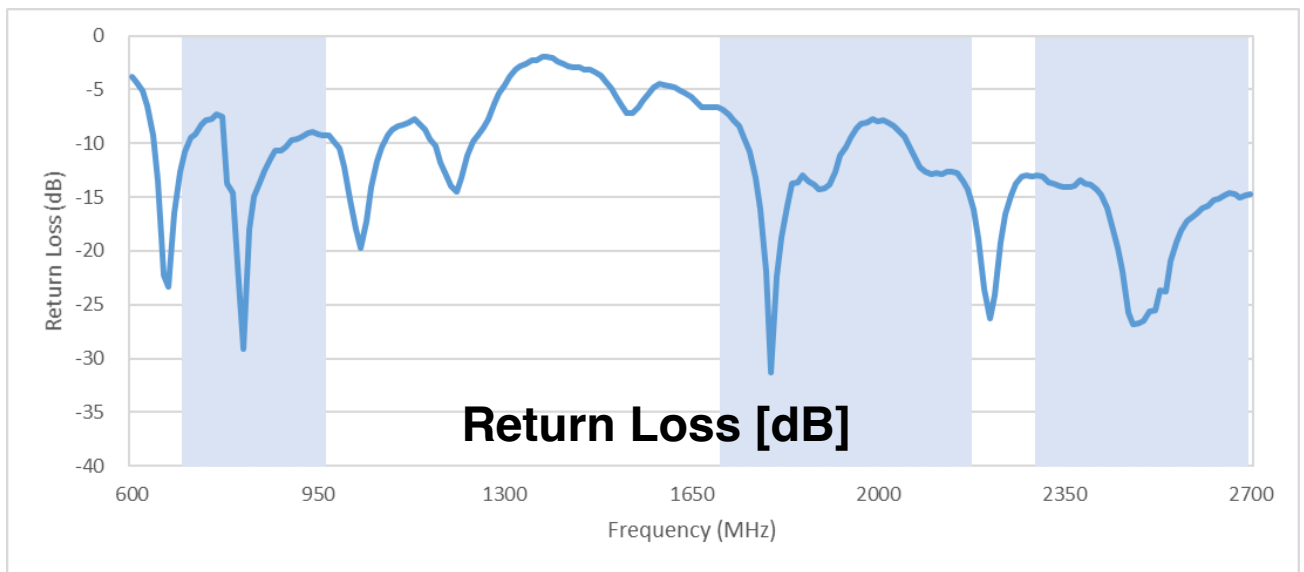
STRUCTURE

Charts In Free Space

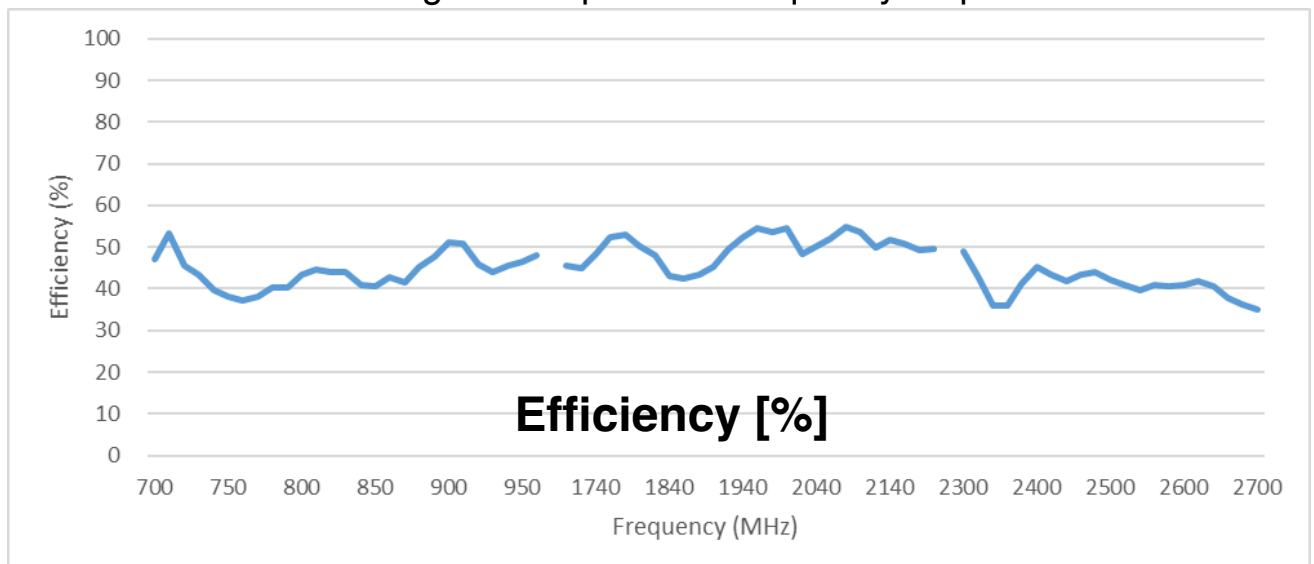


ST0324-30-401-A

Test setup, measurement performed in 3D anechoic chamber.

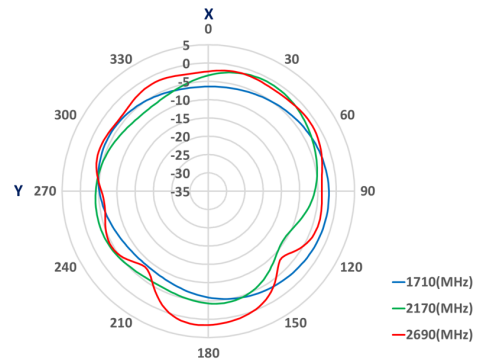
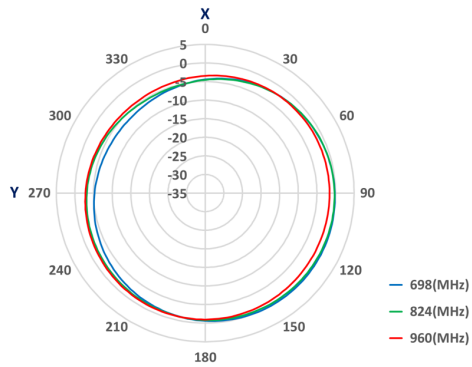


Blue background represents frequency response.

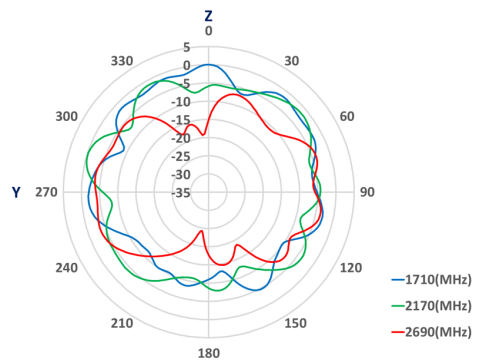
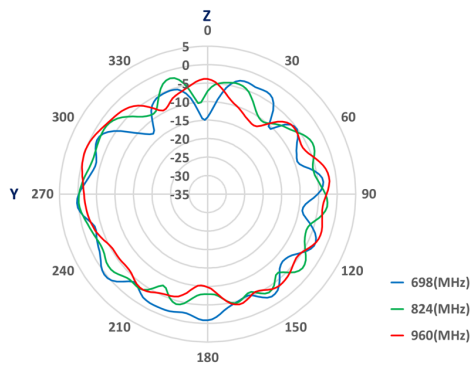


Radiation Pattern - Free Space

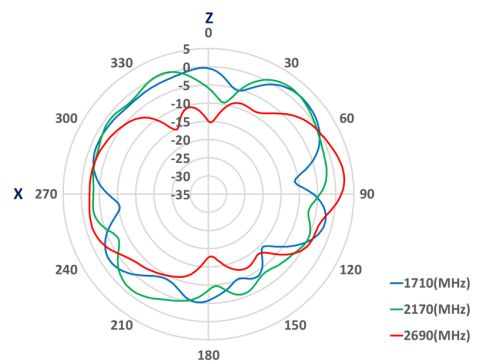
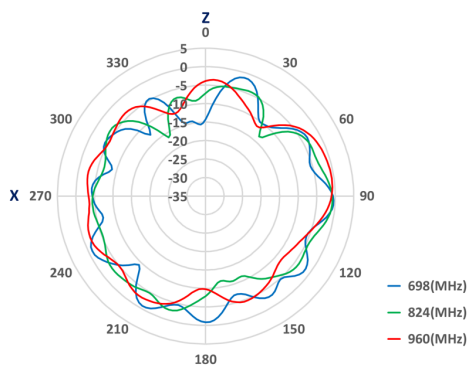
XY - Plane



YZ - Plane



XZ - Plane



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-02-13	ST0324-30-401-A-RA00	ATC

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