

### 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 × 9.5 × 0.25 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

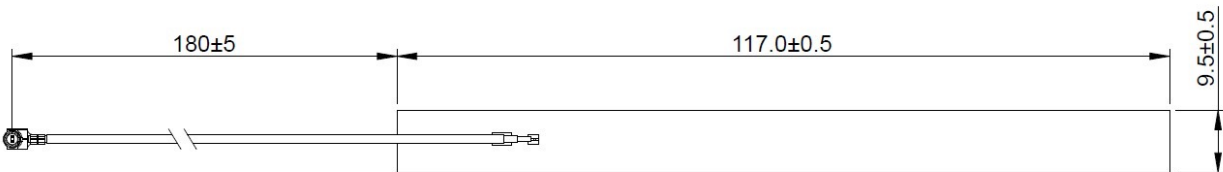
Mechanical Specifications

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

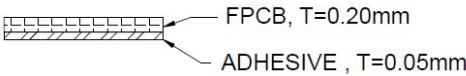
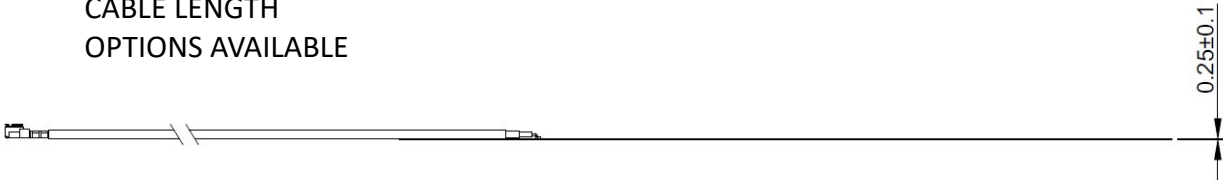
Environmental	
Temperature Range (°C)	-30 to 70
Humidity	Non-condensing 65°C 95% RH
RoHS Compliant	

Mechanical Drawing

Unit : mm

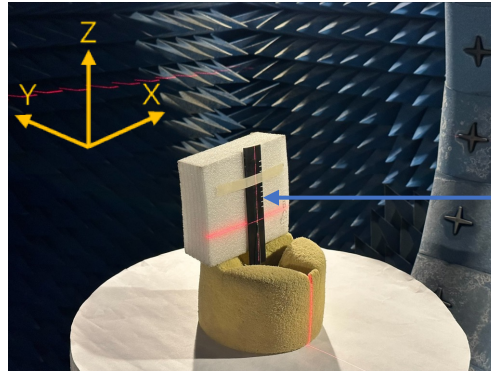


CABLE LENGTH  
OPTIONS AVAILABLE



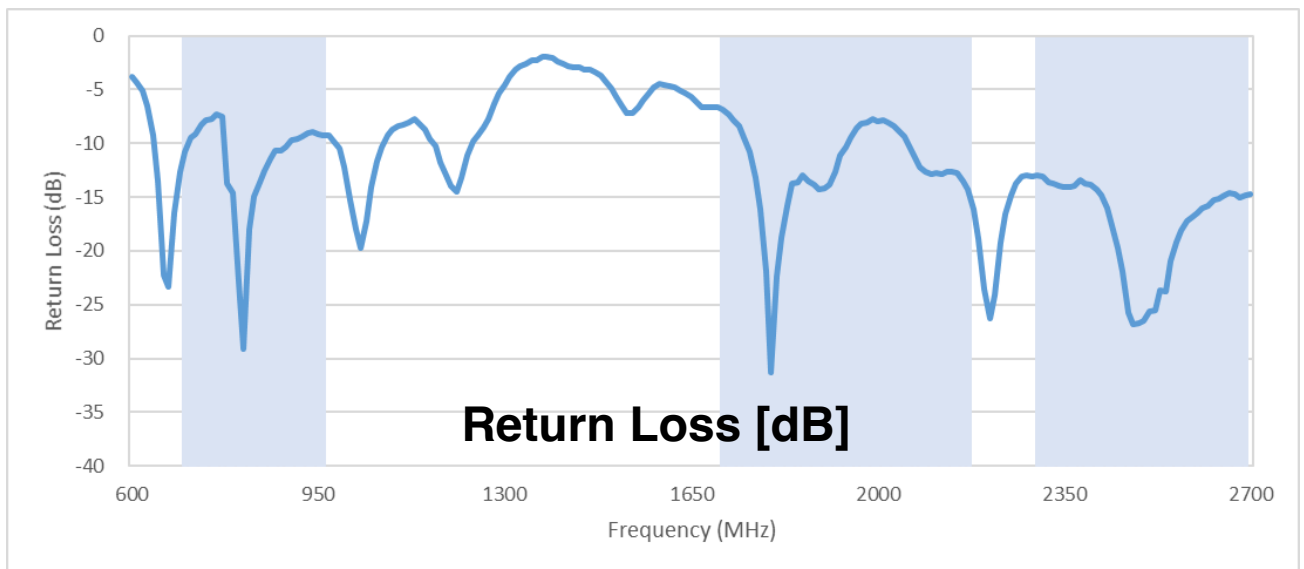
STRUCTURE

## Charts In Free Space

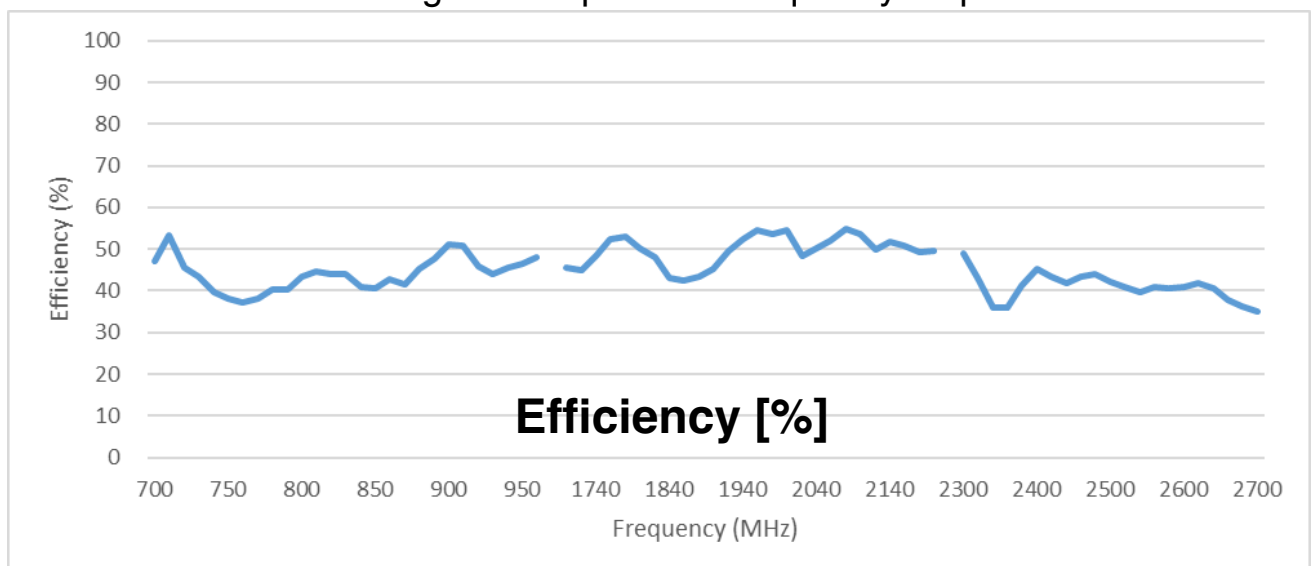


ST0324-30-401-A

Test setup, measurement performed in 3D anechoic chamber.

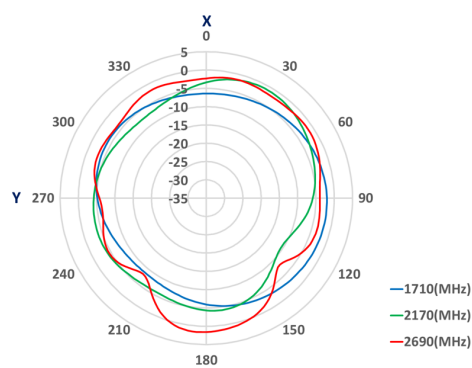
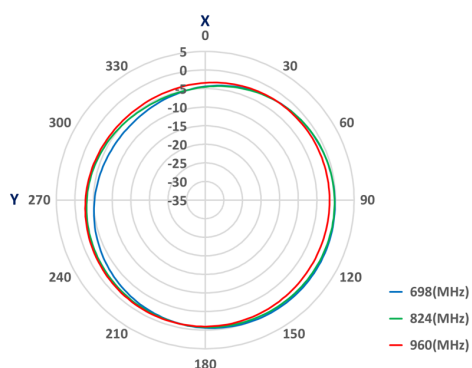


Blue background represents frequency response.

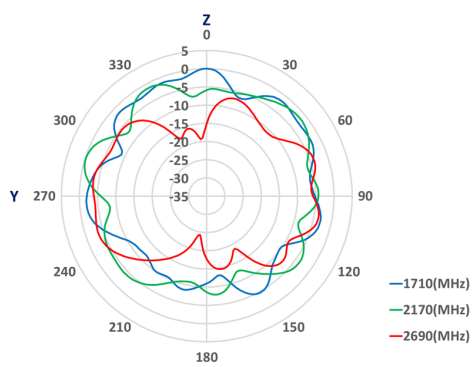
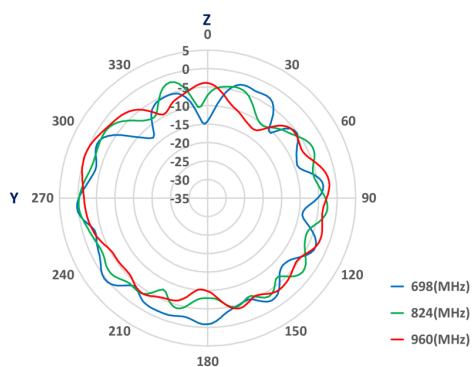


## Radiation Pattern - Free Space

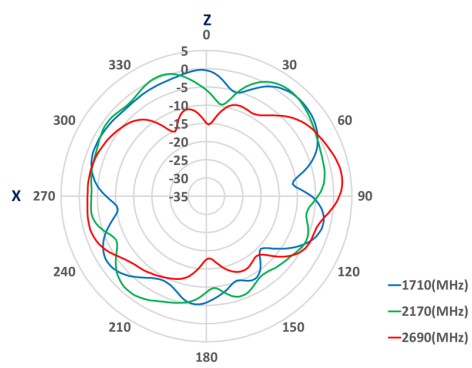
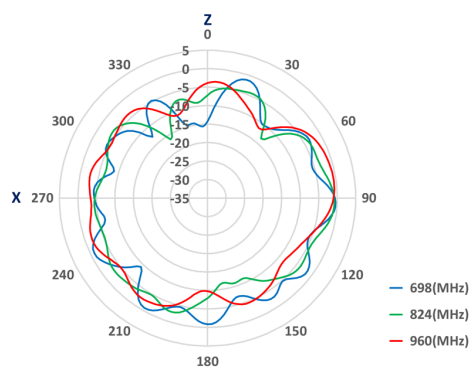
### XY - Plane



### YZ - Plane



### XZ - Plane



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

NOTICE - These drawings, specifications, or other data ( 1) are, and remain the property of Amphenol corp. (2) must be returned upon request; and (3) are confidential and not to be disclosed to any person other than those to whom they are given by Amphenol Corp. the furnishing of these drawings, specifications, or other data by Amphenol Corp., or to any other person to anyone for any purpose is not to be regarded by implication or otherwise in any manner licensing, granting rights to permitting such holder or any other person to manufacture, use or sell any product, process or design, patented or otherwise, that may in any way be related to or disclosed by said drawings, specifications, or other data.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Amphenol:](#)

[ST0324-30-401-A](#)