

Datasheet

2.4-2.5GHz & 5.15-5.85GHz
Internal Antenna

Features:

- Adhesive backing on the PCB simplifies mounting within the device
- Global frequency coverage
- PCB antenna assembly

Applications:

- Smart metering and utilities
- Industrial IoT
- Quick service restaurants
- Medical devices



25 × 7 × 0.85mm

PCB Antenna



Electrical Specifications

Antenna Characteristics

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

Frequency (GHz)	2.4~2.5	5.15~5.825
Return Loss (dB)	< -10	< -10
Peak Gain (dBi)	2.6	2.6
Average Gain (dB)	-3.8	-1.6
Efficiency (%)	42	69

Mechanical Specifications

Environmental

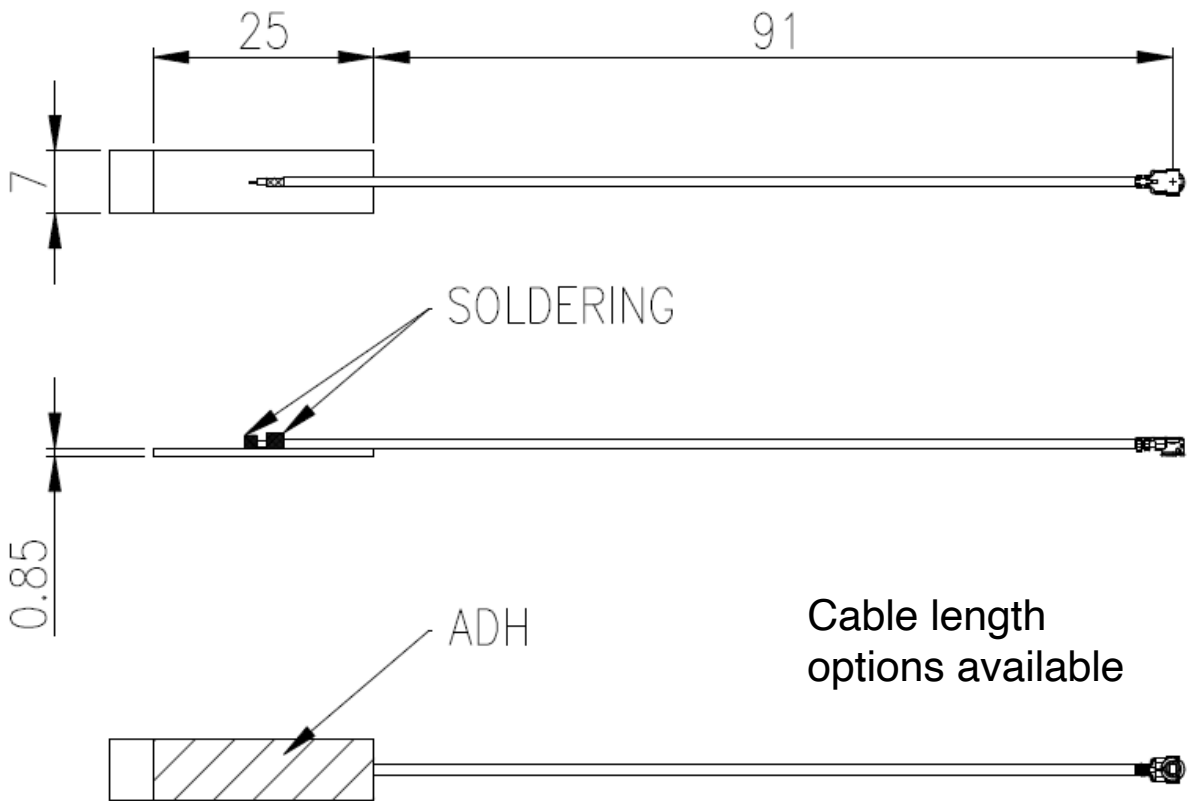
Temperature Range (°C)	-40 to 85
Humidity	Non-condensing 65°C 95% RH

RoHS Compliant

Part Number	Dim. (mm)	Weight (g)	Conn. Type	Cable Type	Material	Adhesive
ST0225-10-401-A	25 × 7 × 0.85	1.8	I-PEX MHF 1	Ø 1.37	FR-4	3M 467

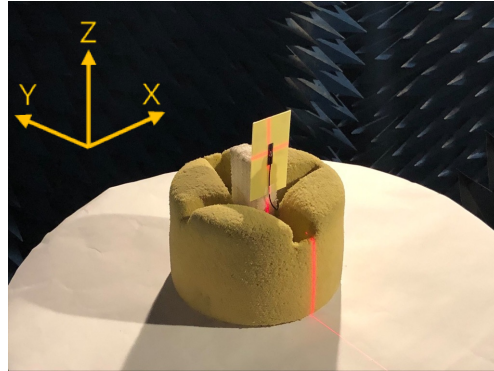
Mechanical Drawing

Unit : mm

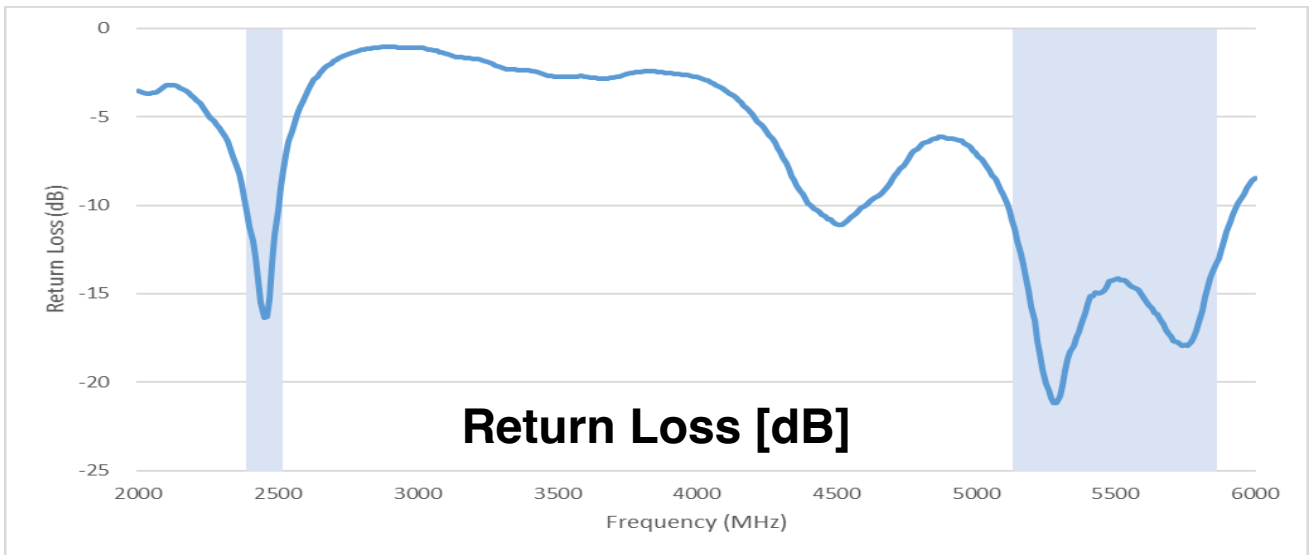


ST0225-10-401-A

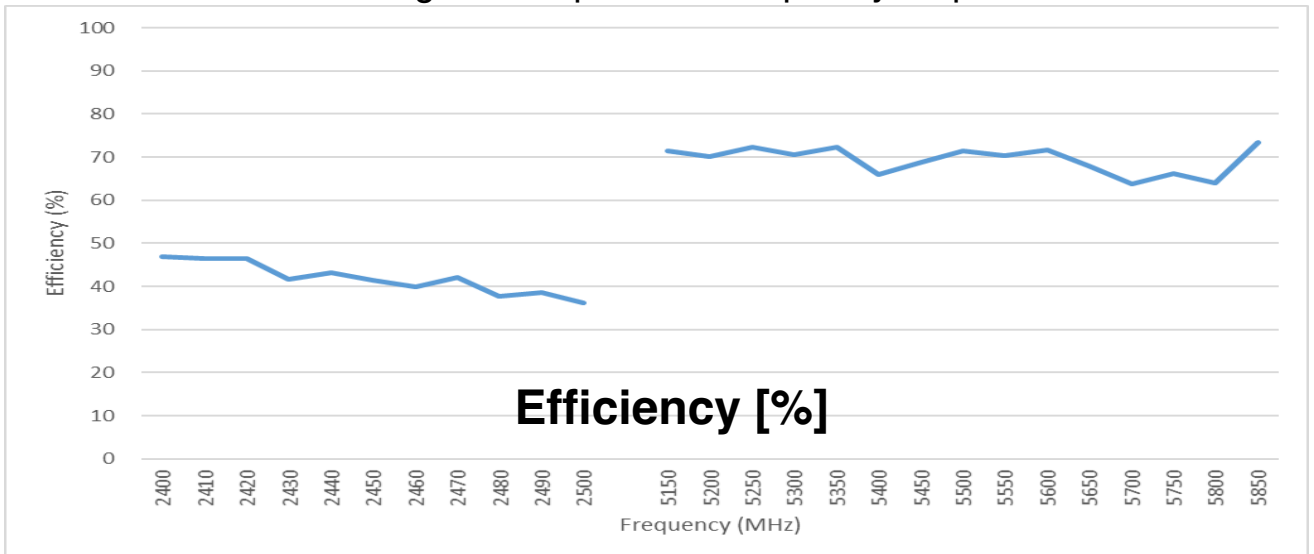
Charts In Free Space



Test setup, measurement performed in 3D anechoic chamber.

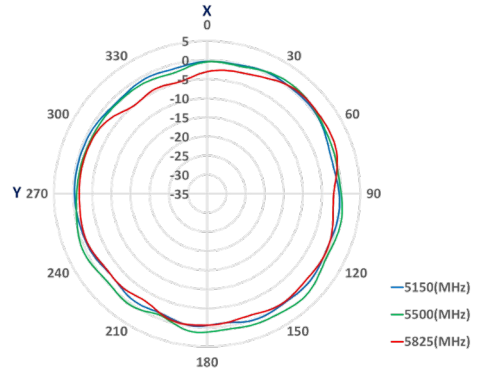
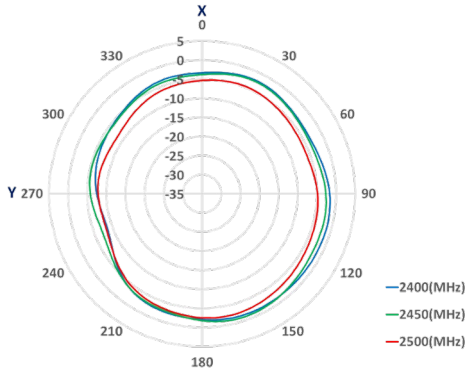


Blue background represents frequency response.

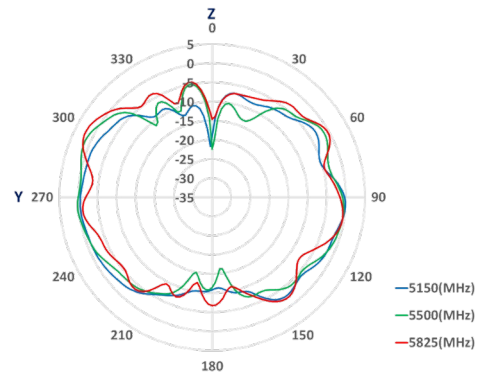
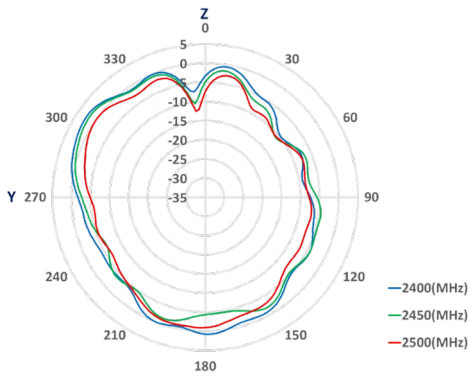


Radiation Pattern - Free Space

XY - Plane



YZ - Plane



XZ - Plane

