

Datasheet

2.4-2.5GHz & 5.15-5.85GHz
Internal Antenna



30 × 10 × 1.27 mm
FPC Antenna

Features:

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

Applications:

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



Electrical Specifications

Antenna Characteristics

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

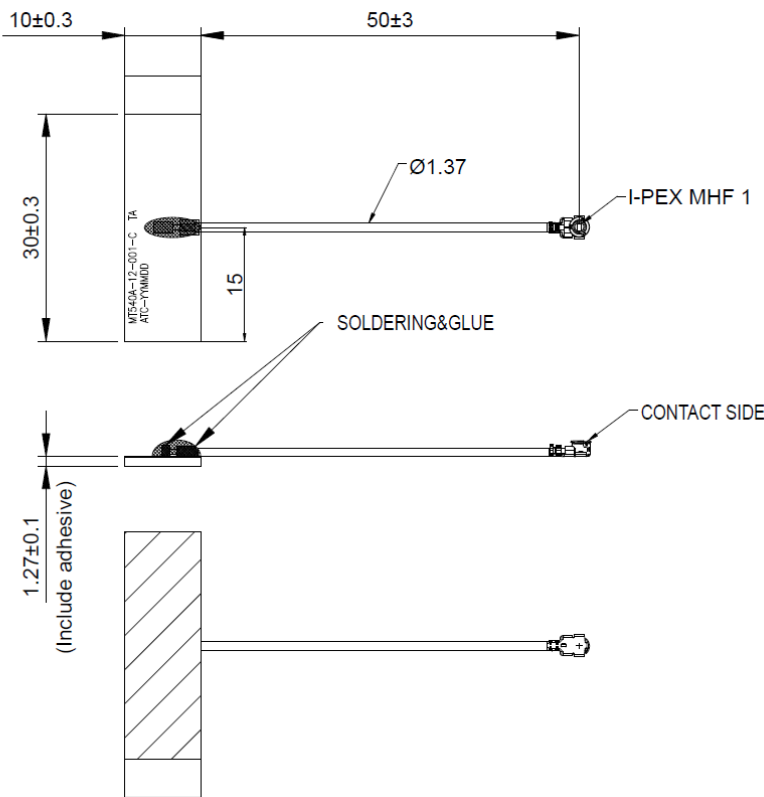
Frequency (GHz)	2.4~2.5	5.15~5.825
Return Loss (dB)	< -10	< -10
Peak Gain (dBi)	1.9	2.2
Average Gain (dB)	-1.1	-1.5
Efficiency (%)	77	71

Mechanical Specifications

Mechanical	
Dimension (mm)	30.0 × 10.0 × 1.27
Connector Type	I-PEX MHF 1
Cable Type	Coaxial Cable Ø 1.37
Adhesive.	Foam
Material	FPCB
Weight (g)	0.65

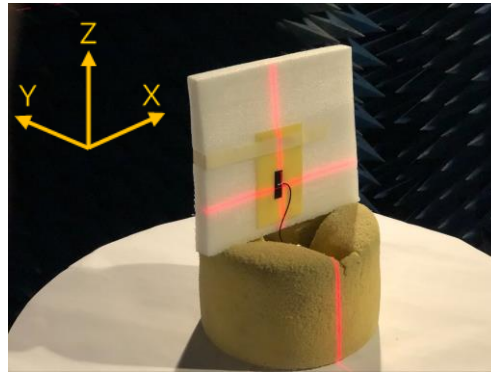
Environmental	
Temperature Range (°C)	-40 to 85
Humidity	Non-condensing 65°C 95% RH
RoHS Compliant	

Mechanical Drawing

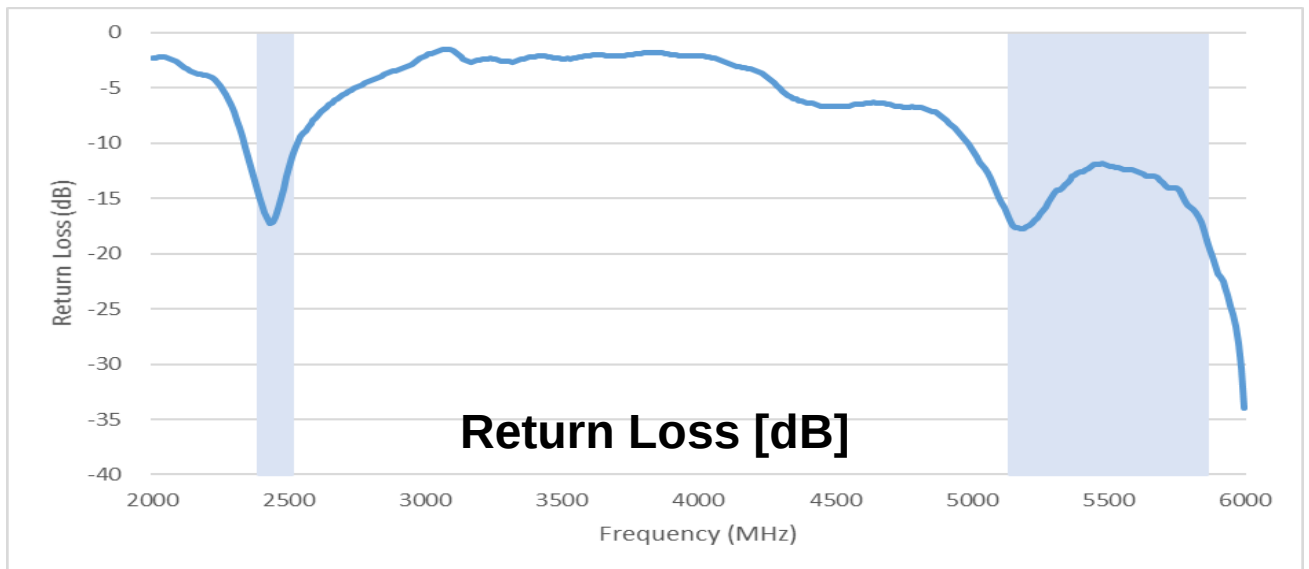


Unit : mm

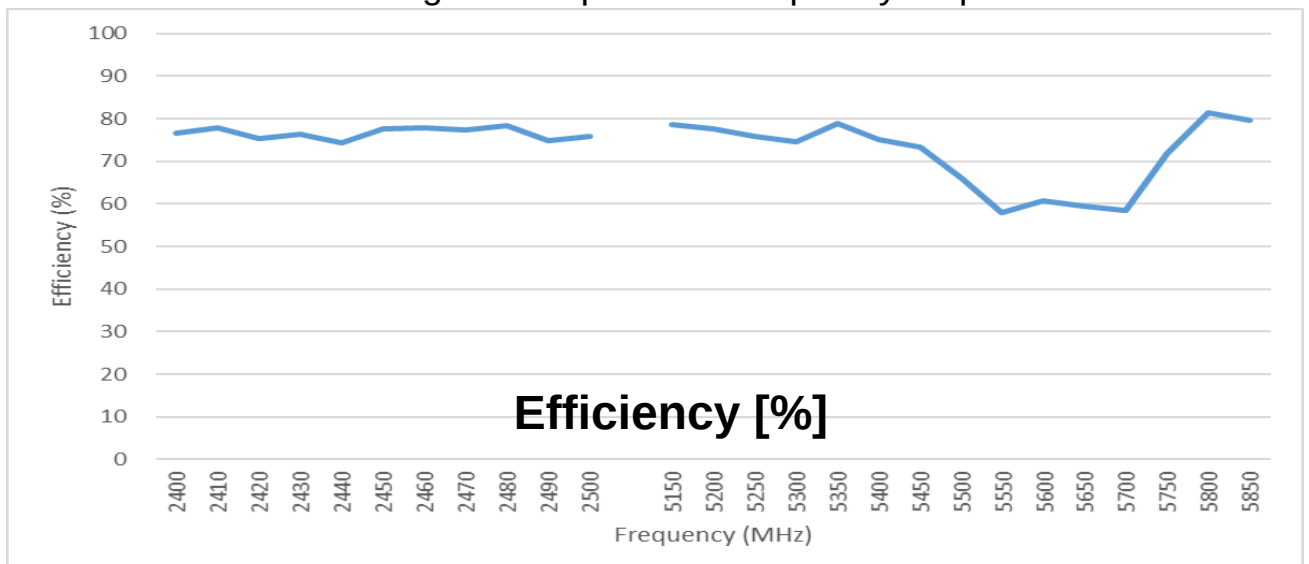
Charts In Free Space



Test setup, measurement performed in 3D anechoic chamber.

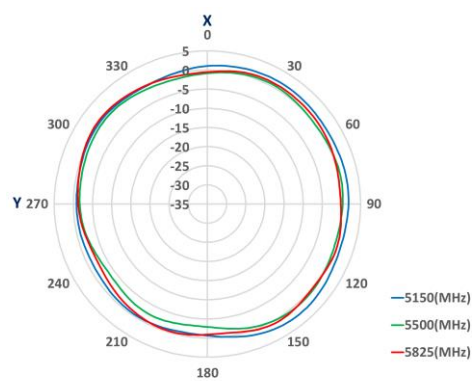
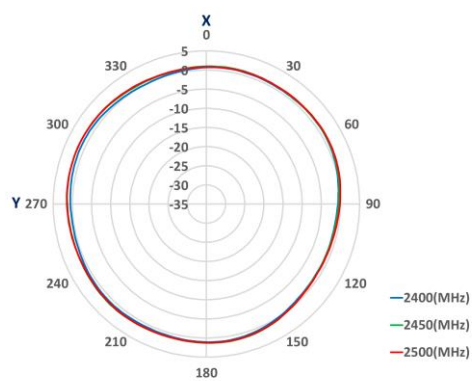


Blue background represents frequency response.

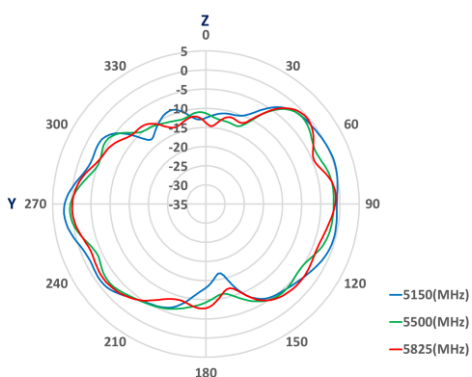
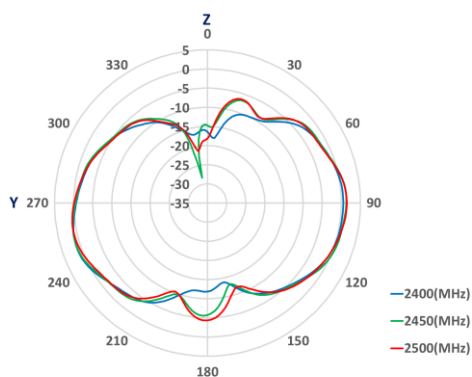


Radiation Pattern - Free Space

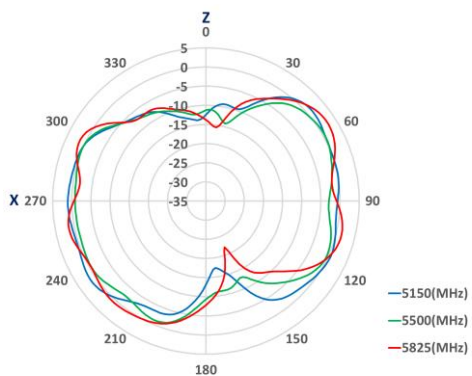
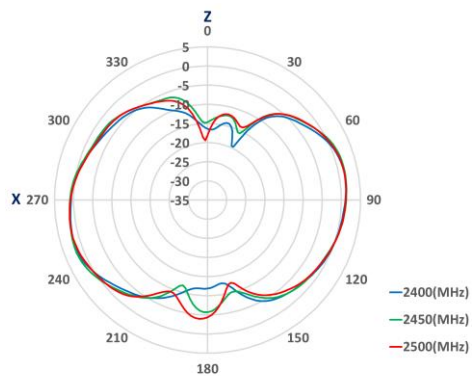
XY - Plane



YZ - Plane



XZ - Plane



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2025-04-09	MT540A-12-001-C-RA00	ATC

Vender	
MFG.	Address
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