

Datasheet

6.35-8.44GHz
Internal Antenna

Features:

This UWB antenna is FPC antenna which can be flexible mounting on non-metal surfaces, supporting 6.35 to 8.44GHz bands with I-PEX MHF 1 connector.

Applications:

- Smart Home
- Agriculture
- Tracking
- Radar
- Automotive
- Healthcare
- Digital Signage
- Telematics



15 X 17.4 X 0.2 mm

FPC Antenna



Electrical Specifications

Antenna Characteristics

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

Frequency (GHz)	6.35~7.91	7.93~8.44
Return Loss (dB)	< -10	< -10
Peak Gain (dBi)	6.0	5.1
Average Gain (dB)	-0.9	-0.8
Efficiency (%)	81	91

Mechanical Specifications

Environmental

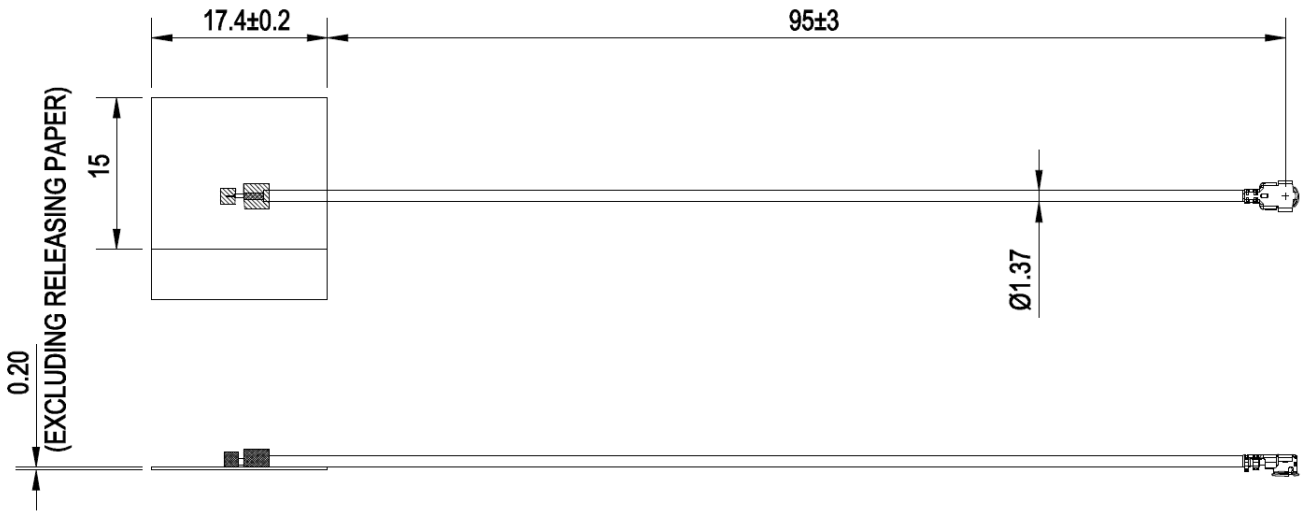
Temperature Range (°C)	-40 to 85
Humidity	Non-condensing 65°C 95% RH

RoHS Compliant

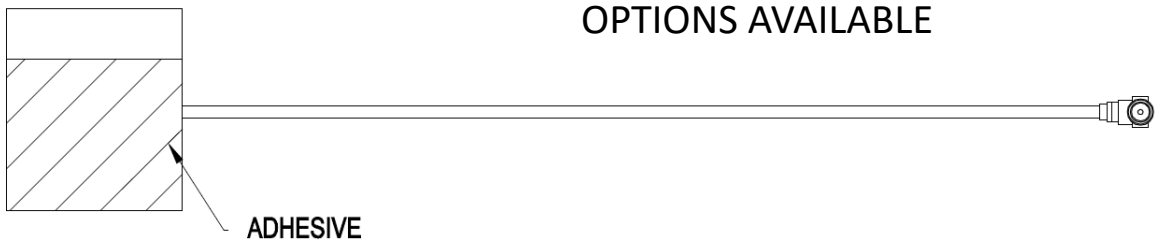
Part Number	Dimension (mm)	Weight (g)	Conn. Type	Cable Type	Material	Adhesive
ST1124-00-401-A	15.0 x 17.4 x 0.2	0.7	I-PEX MHF 1	Ø 1.37	PI	3M 467MP

Mechanical Drawing

Unit : mm



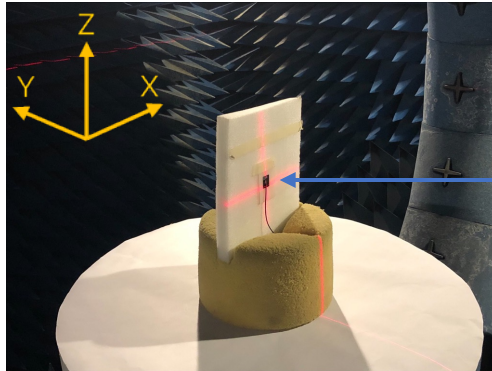
CABLE LENGTH
OPTIONS AVAILABLE



ADHESIVE

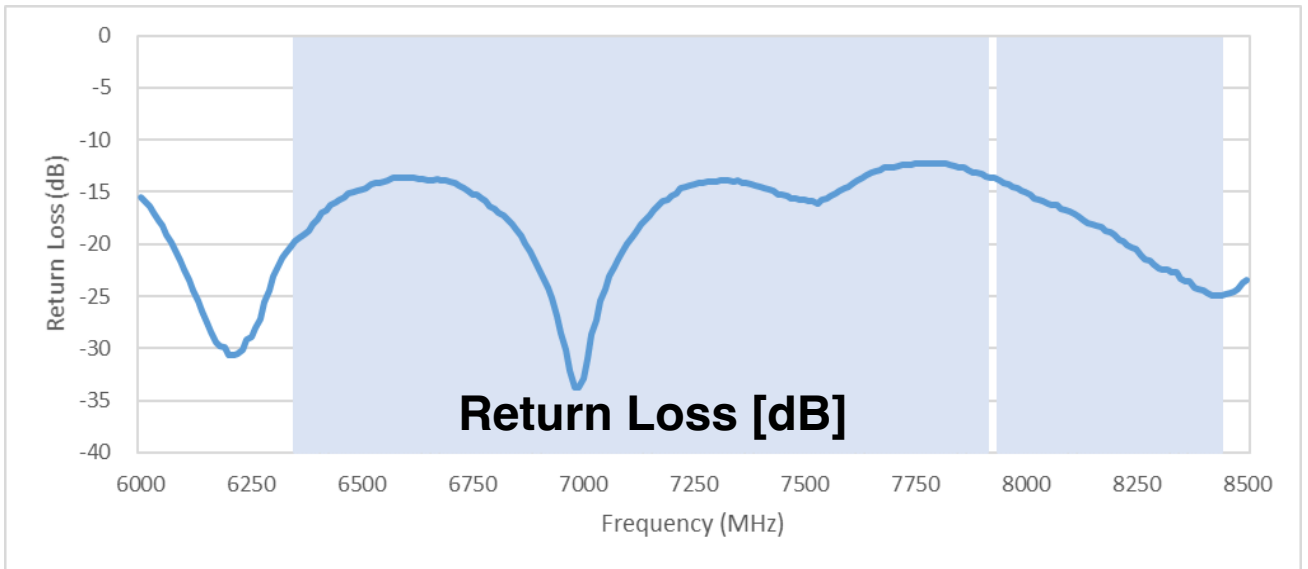
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Charts In Free Space

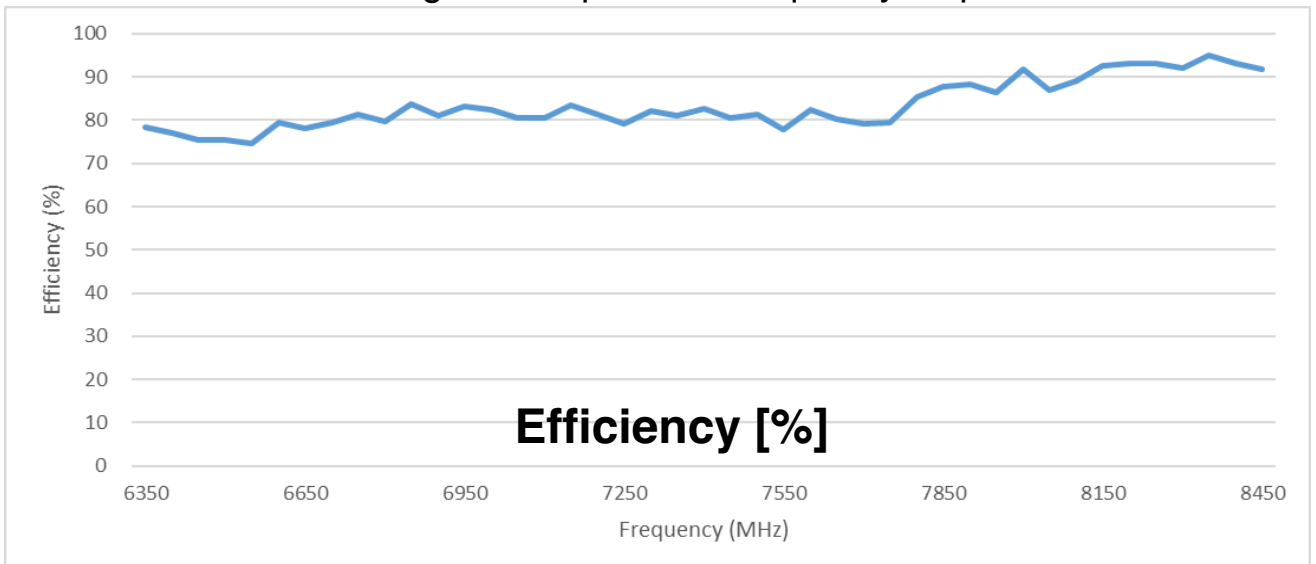


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Test setup, measurement performed in 3D anechoic chamber.

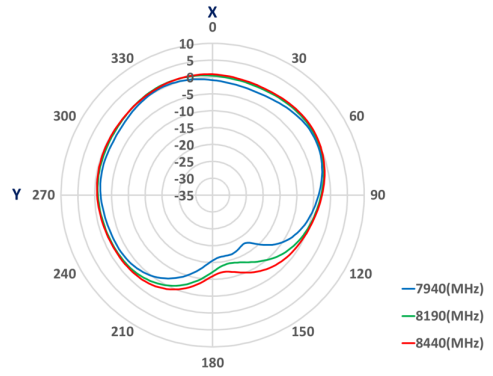
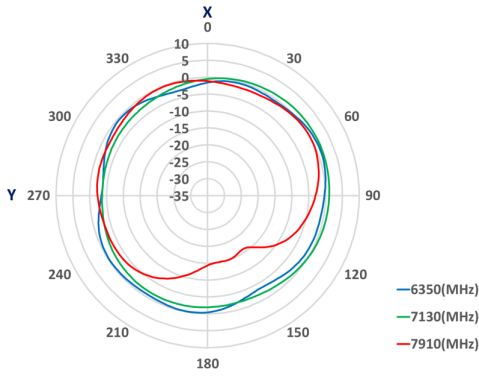


Blue background represents frequency response.

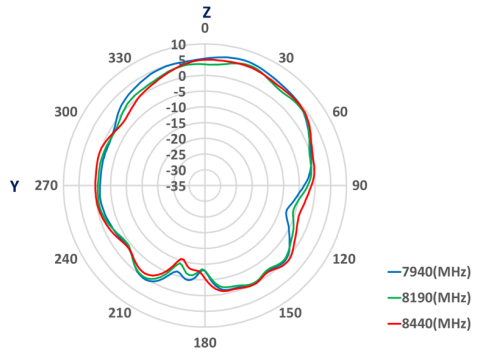
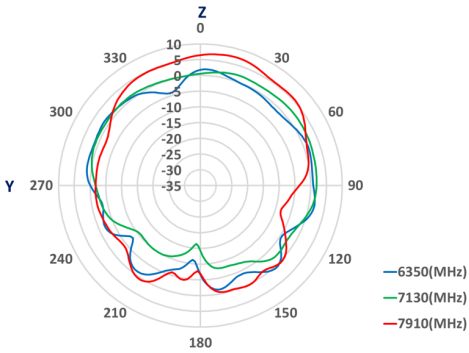


Radiation Pattern - Free Space

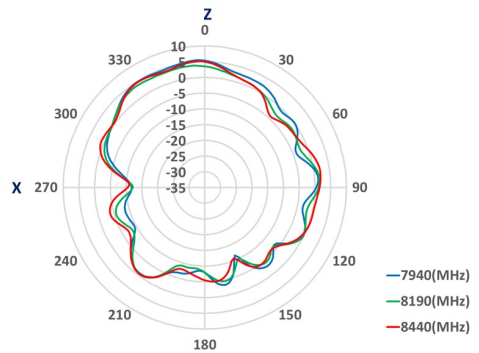
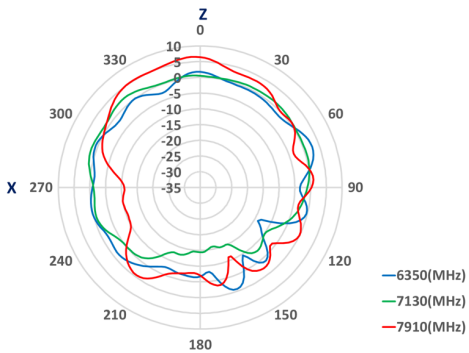
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2022-12-19	ST1124-00-401-A-RA00	ATC

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