

2.4GHz Bluetooth & Wi-Fi FPC Antenna



AANI-FB-0154

Request Samples



Check Inventory



15.5 x 6.5 x 0.2 mm

RoHS Compliant

MSL Level = N/A

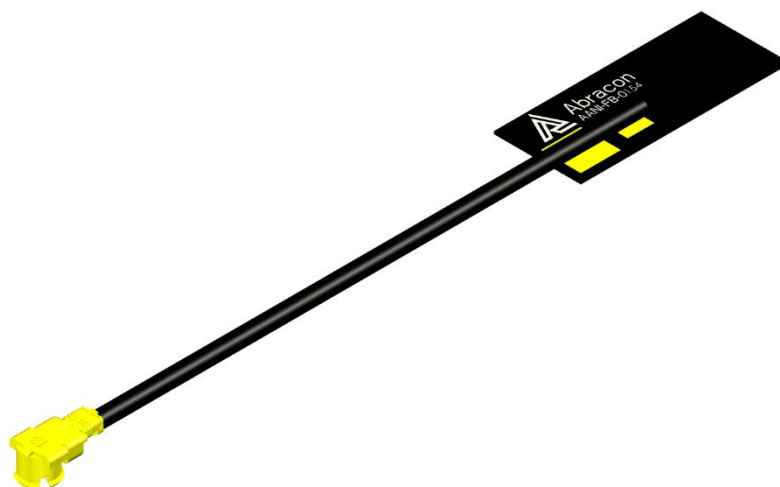
Features

- Frequency Range: 2400-2500 MHz
- Peak Gain: 3.2 dBi
- Efficiency: 68 %
- Ground Plane Independent
- Flexible to Fit Inside Plastic Enclosures
- Fully Customizable Cable Length and Connector Options
- RoHS Compliant

Applications

- Bluetooth® / ZigBee® / Thread/ Matter/Wi-Fi®
- Bluetooth® / Wi-Fi® Modules
- Hearables & Wearables
- Smart Home & Smart Building
- Smart Metering
- Intelligent Lighting

Product Image



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Electrical Specification

Parameter	Specification	Unit
Operating Frequency	2400 – 2500	MHz
VSWR (Typ.)	< 2.2	:1
Peak Gain	3.2	dBi
Maximum Efficiency	68	%
Average Efficiency	64	%
Impedance	50	Ω
Polarization	Linear	-
Radiation Pattern (Azimuth)	Omni-directional	-
Maximum Input Power	5	W

Mechanical Specification

Parameter	Specification
Antenna Dimensions	15.5 x 6.5 x 0.2 mm
Antenna Type	Flexible PCB
Mounting Type	Adhesive Mount
RF Connector ⁽¹⁾	u.FL/IPEX-1/MHF1
RF Cable Type ⁽¹⁾	Ø1.13 mm
Cable Length ⁽¹⁾	93.5 mm

(1): Fully customizable RF Cable & Connector

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
RoHS Complaint	Yes

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Ordering Information

Part Number	Description	Connector Option
AANI-FB-0154-1	2.4GHz Bluetooth & Wi-Fi FPC Antenna with MHF1 connector and 93.5mm cable	u.FL/IPEX-1/MHF1
AANI-FB-0154-2	2.4GHz Bluetooth & Wi-Fi FPC Antenna with MHF4 connector and 93.5mm cable	w.FL/IPEX-4/MHF4
AANI-FB-0154-3	2.4GHz Bluetooth & Wi-Fi FPC Antenna with MHF1 connector and 150mm cable	u.FL/IPEX-1/MHF1
AANI-FB-0154-4	2.4GHz Bluetooth & Wi-Fi FPC Antenna with MHF4 connector and 150mm cable	w.FL/IPEX-4/MHF4
AANI-FB-0154-5	2.4GHz Bluetooth & Wi-Fi FPC Antenna with MHF1 connector and 200mm cable	u.FL/IPEX-1/MHF1
AANI-FB-0154-6	2.4GHz Bluetooth & Wi-Fi FPC Antenna with MHF4 connector and 200mm cable	w.FL/IPEX-4/MHF4

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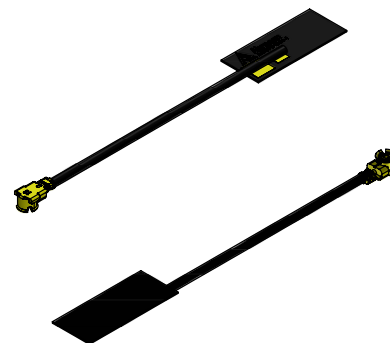
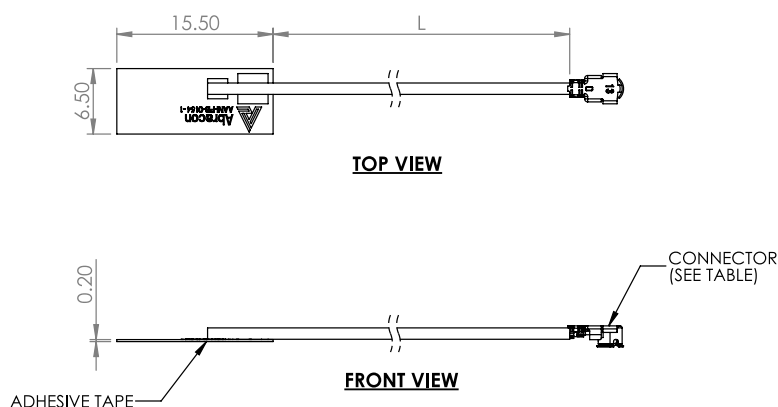


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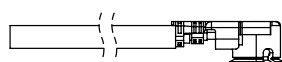


15.5 x 6.5 x 0.2 mm
RoHS Compliant
MSL Level = N/A

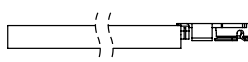
Product Dimensions



PART NUMBER	CABLE LENGTH (L)	CONNECTOR
AANI-FB-0154-1	93.5	u.FL/IPEX-1/MHF1
AANI-FB-0154-2	93.5	w.FL/IPEX-4/MHF4
AANI-FB-0154-3	150	u.FL/IPEX-1/MHF1
AANI-FB-0154-4	150	w.FL/IPEX-4/MHF4
AANI-FB-0154-5	200	u.FL/IPEX-1/MHF1
AANI-FB-0154-6	200	w.FL/IPEX-4/MHF4



u.FL/IPEX-1/MHF1



w.FL/IPEX-4/MHF4

Unit : mm

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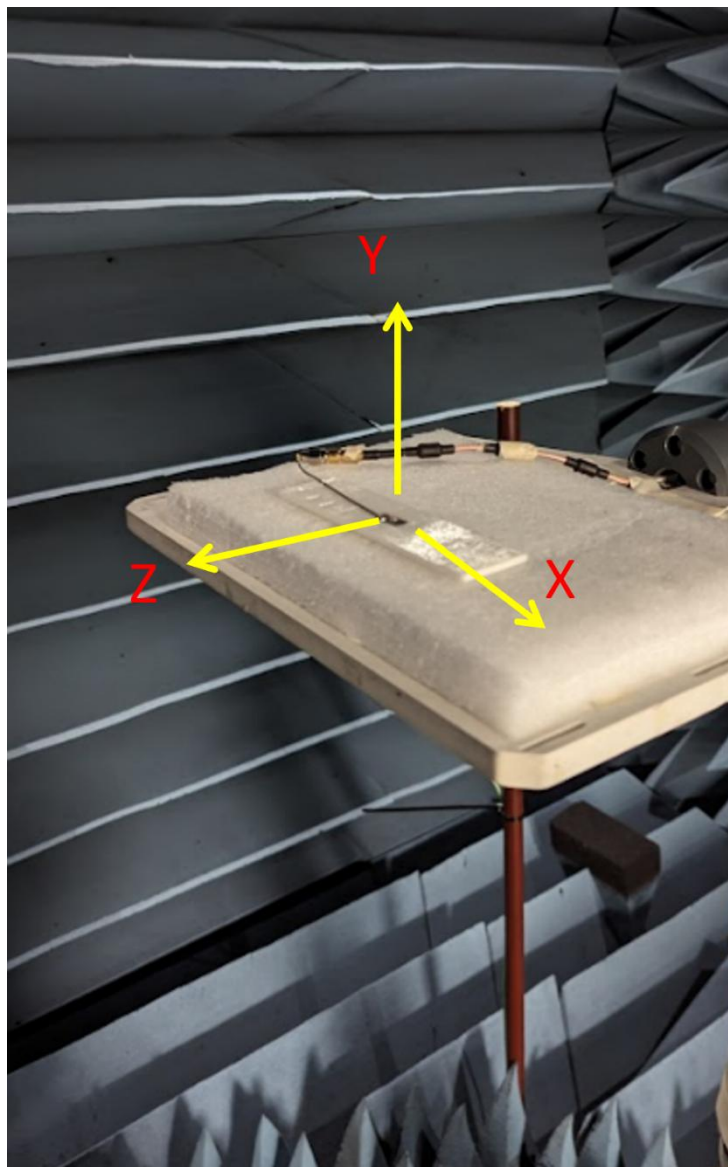


15.5 x 6.5 x 0.2 mm

RoHS Compliant

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Measurement Setup photo



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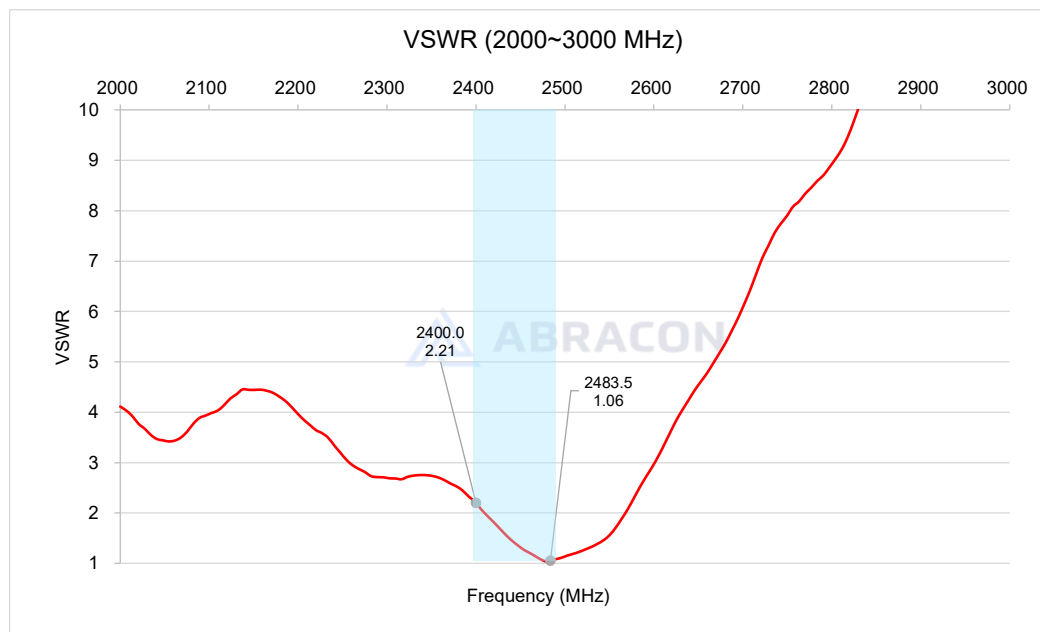
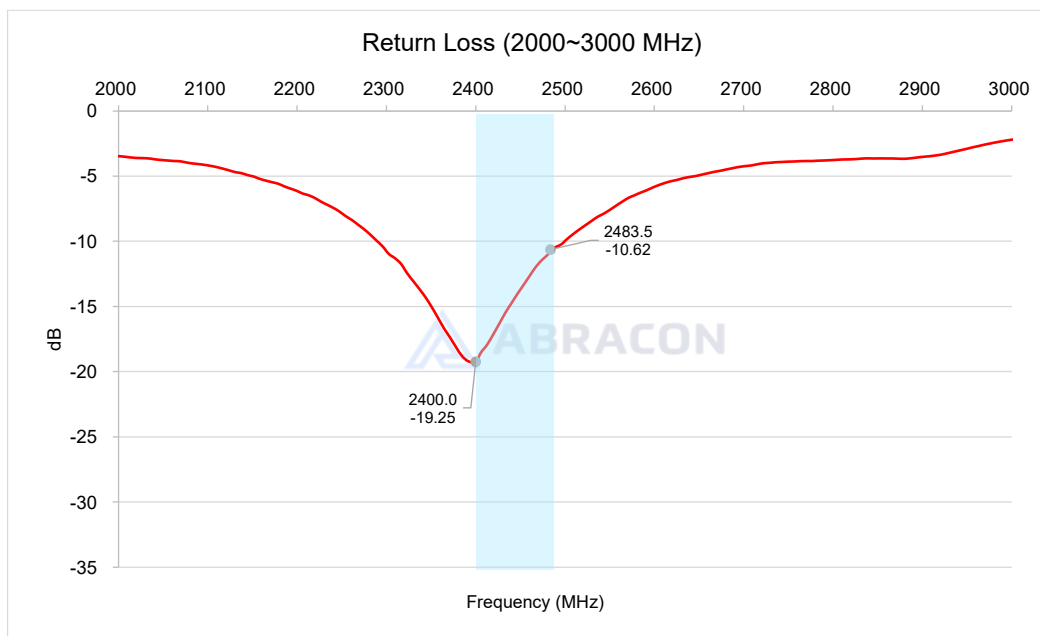


15.5 x 6.5 x 0.2 mm

RoHS Compliant

MSL Level = N/A

Reflection Characteristics – Return Loss & VSWR



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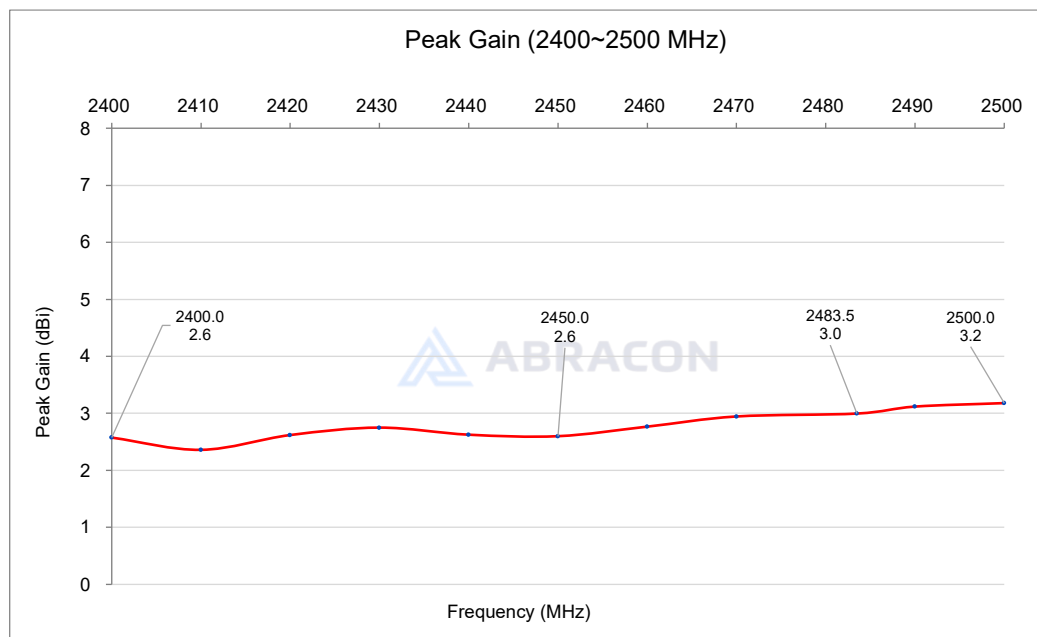


15.5 x 6.5 x 0.2 mm

RoHS Compliant

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Radiation Characteristics – Peak Gain & Average Gain



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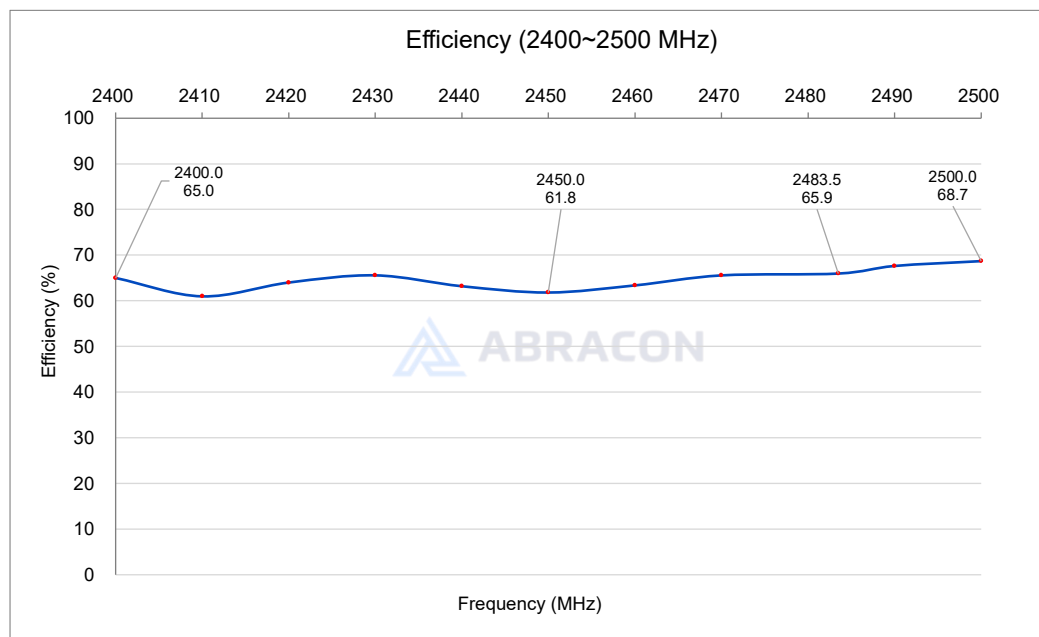


15.5 x 6.5 x 0.2 mm

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Radiation Characteristics – Total Efficiency (%)



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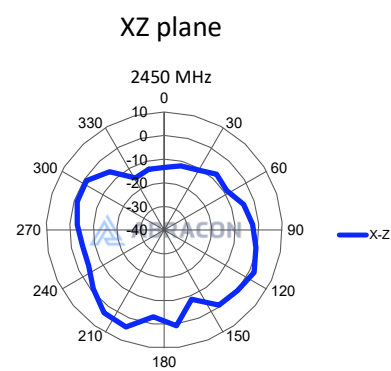
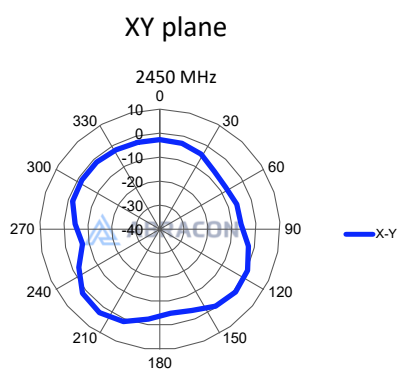
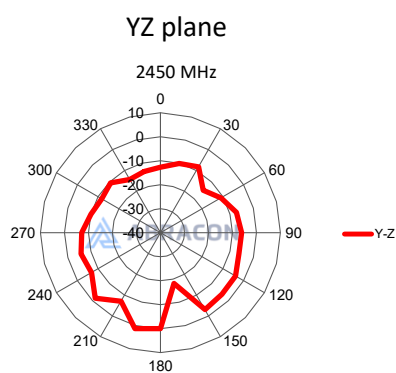
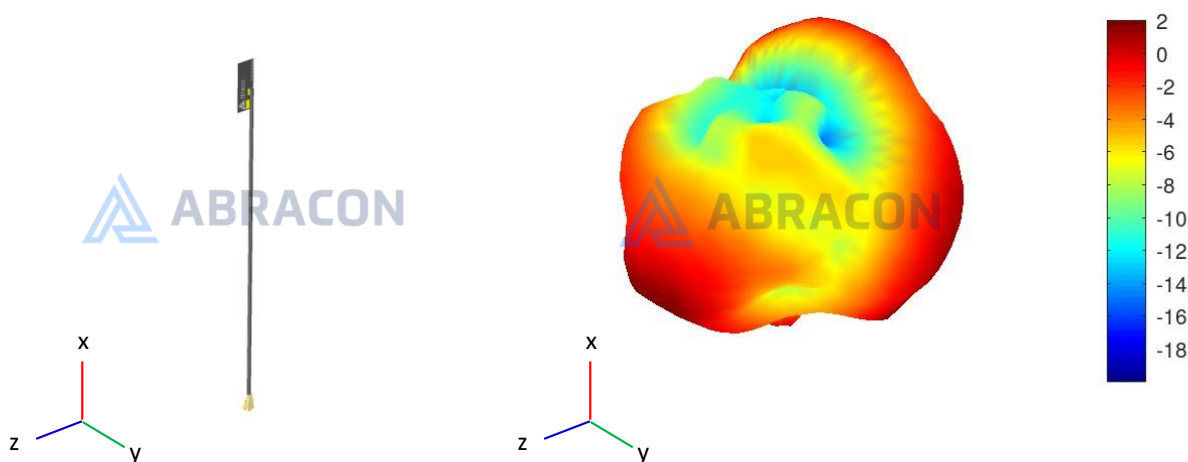
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RoHS Compliant

MSL Level = N/A

Radiation Characteristics – 3D & 2D pattern

2450MHz



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