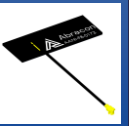


Cellular 4G LTE FPC Antenna



AANI-FB-0173

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40 x 15 x 0.2 mm
RoHS/RoHS II Compliant
MSL Level = N/A

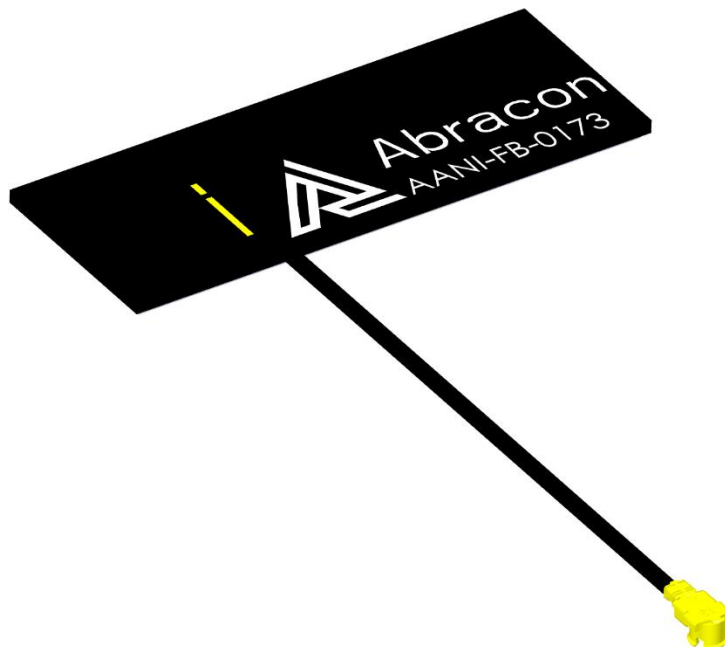
Features

- Frequency Range: LTE 698-960/1710-2690 MHz
- LTE Peak Gain: 2.2 / 5.5 dBi
- LTE Efficiency: 48 / 75 %
- Ground Plane Independent
- Flexible to Fit Inside Plastic Enclosures
- Fully Customizable Cable Length and Connector Options

Applications

- Internet of Things (IoT) Devices
- LTE-M, Cat M, Cat M1, NB-IoT
- LTE CAT 1 up to CAT 20 Supported
- CBRS and 5G bands Supported
- Smart Home Networking
- Networking & Telecommunication

Product Image

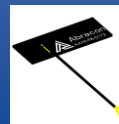


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40 x 15 x 0.2 mm
RoHS/RoHS II Compliant
MSL Level = N/A

Electrical Specification

Parameter	Specification		Unit
Operating Frequency	698-960	1710-2690	MHz
VSWR	< 2.0		:1
Peak Gain	2.2	5.5	dBi
Maximum Efficiency	48	75	%
Average Efficiency	31	61	%
Impedance	50		Ω
Polarization	Linear		-
Radiation Pattern (Azimuth)	Omni-directional		-
Maximum Input Power	5		W

Mechanical Specification

Parameter	Specification
Antenna Dimensions	40 x 15 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⁾	66 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 Compliance	Yes



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RoHS/RoHS II Compliant
MSL Level = N/A

Ordering Information

Part Number	Description	Connector Option
AANI-FB-0173-1	Cellular 4G LTE FPC Antenna with IPEX-1 connector and 66 mm cable length	u.FL/IPEX-1/MHF1
AANI-FB-0173-2	Cellular 4G LTE FPC Antenna with IPEX-4 connector and 66 mm cable length	w.FL/IPEX-4/MHF4
AANI-FB-0173-3	Cellular 4G LTE FPC Antenna with IPEX-1 connector and 150 mm cable length	u.FL/IPEX-1/MHF1
AANI-FB-0173-4	Cellular 4G LTE FPC Antenna with IPEX-4 connector and 150 mm cable length	w.FL/IPEX-4/MHF4
AANI-FB-0173-5	Cellular 4G LTE FPC Antenna with IPEX-1 connector and 200 mm cable length	u.FL/IPEX-1/MHF1
AANI-FB-0173-6	Cellular 4G LTE FPC Antenna with IPEX-4 connector and 200 mm cable length	w.FL/IPEX-4/MHF4

Note: Different cable and connector configurations that are not listed may be available upon request via [Abracon online support](#)



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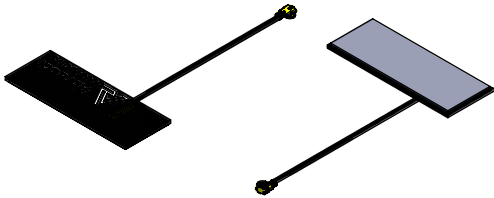
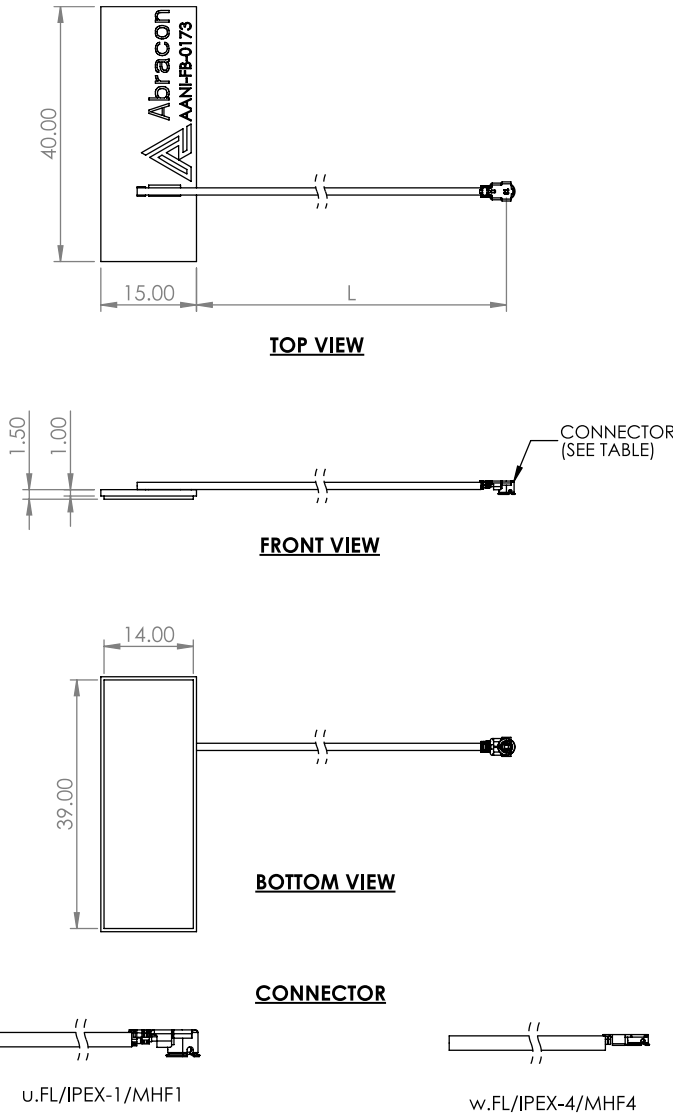


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40 x 15 x 0.2 mm
RoHS/RoHS II Compliant
MSL Level = N/A

Product Dimensions



PART NUMBER	CABLE LENGTH (L)	CONNECTOR
AANI-FB-0173-1	66	u.FL/IPEX-1/MHF1
AANI-FB-0173-2	66	w.FL/IPEX-4/MHF4
AANI-FB-0173-3	150	u.FL/IPEX-1/MHF1
AANI-FB-0173-4	150	w.FL/IPEX-4/MHF4
AANI-FB-0173-5	200	u.FL/IPEX-1/MHF1
AANI-FB-0173-6	200	w.FL/IPEX-4/MHF4

Unit: mm

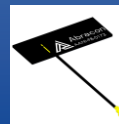


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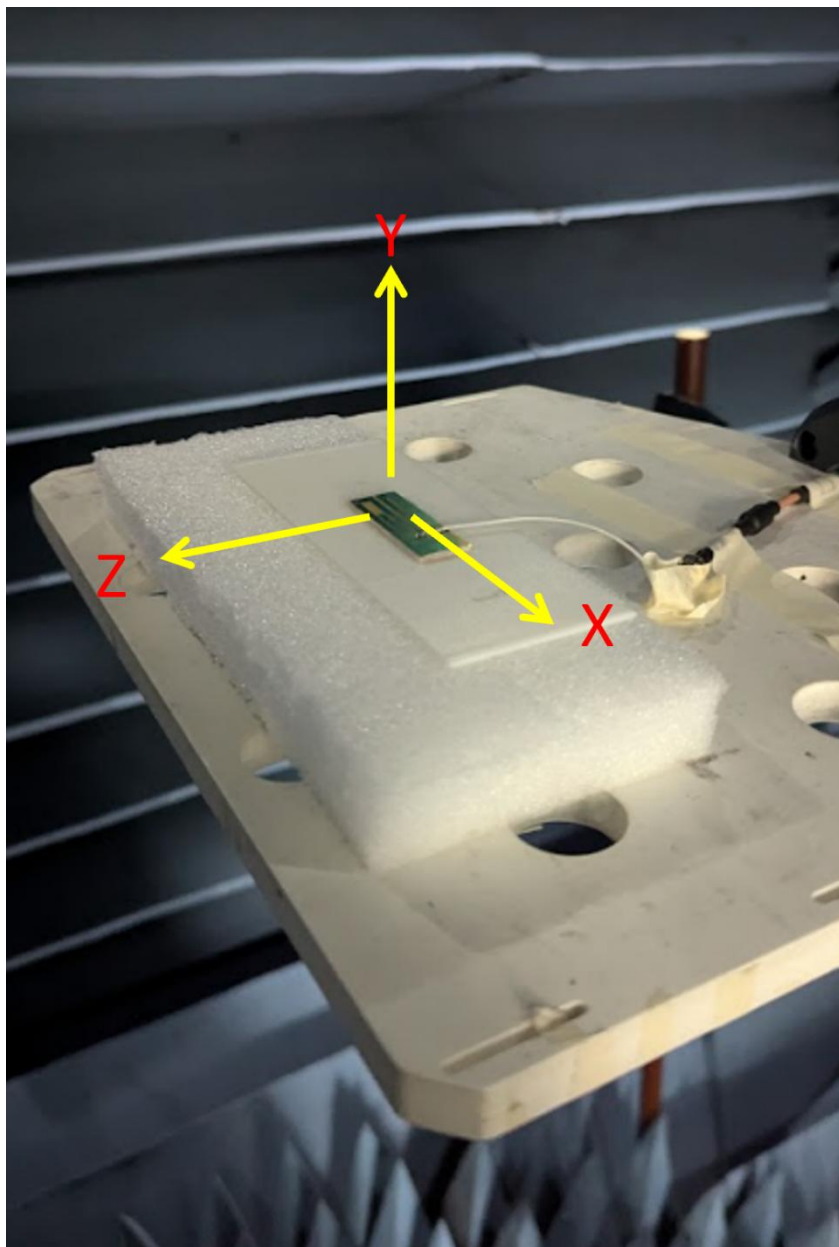


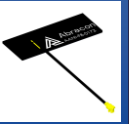
40 x 15 x 0.2 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Measurement Setup photo





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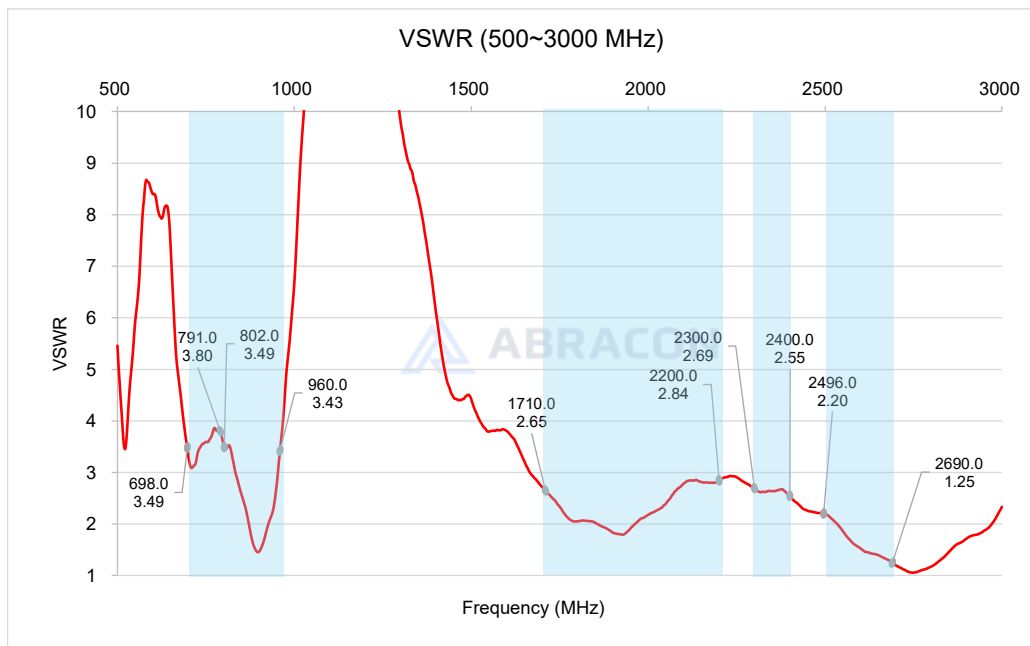
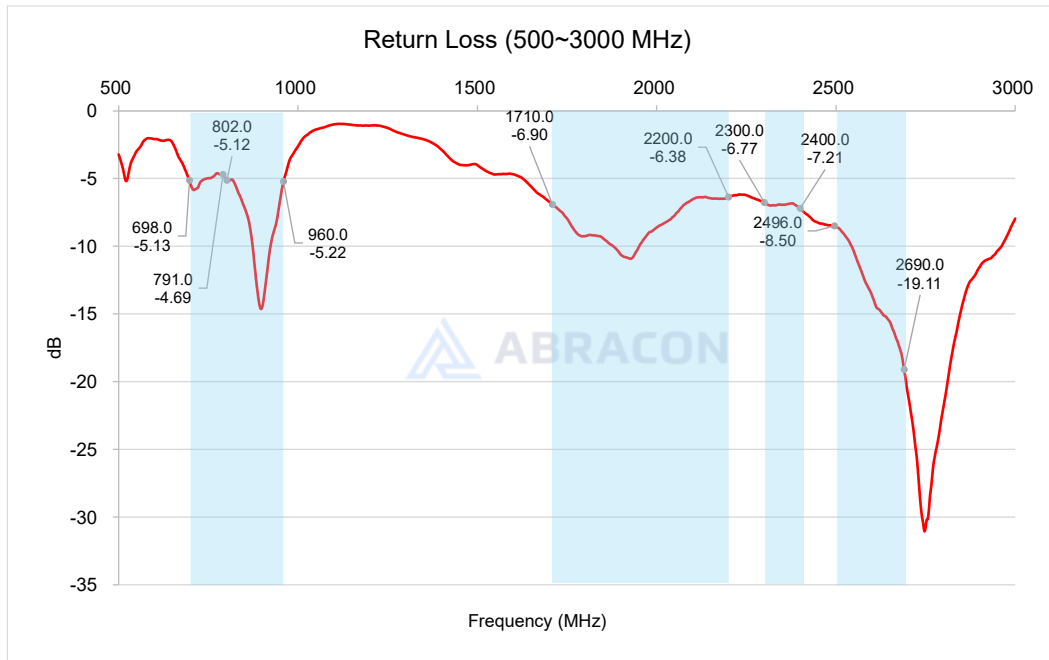


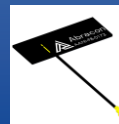
Check Inventory



40 x 15 x 0.2 mm
RoHS/RoHS II Compliant
MSL Level = N/A

Reflection Characteristics – Return Loss & VSWR





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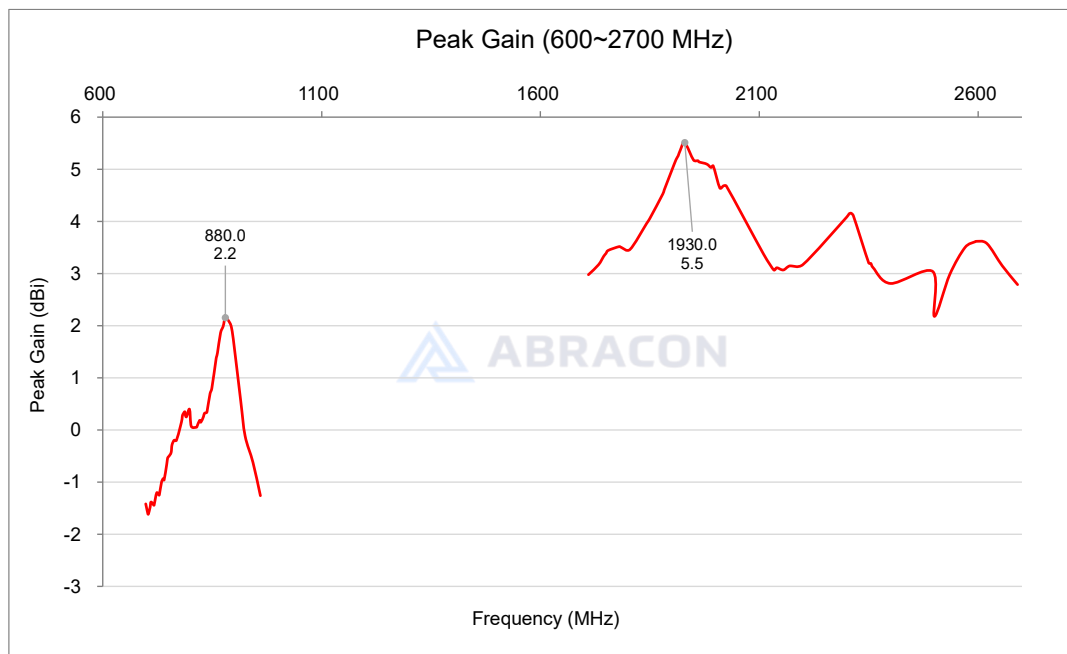


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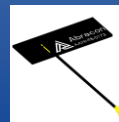


40 x 15 x 0.2 mm
RoHS/RoHS II Compliant
MSL Level = N/A

Radiation Characteristics – Peak Gain



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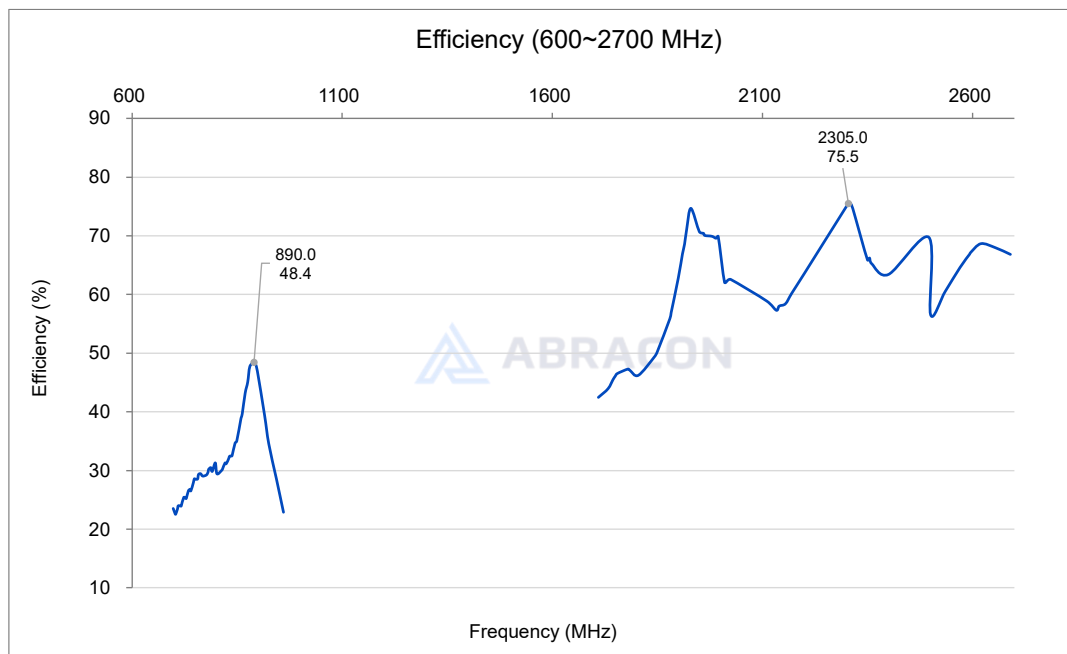


40 x 15 x 0.2 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Radiation Characteristics – Total Efficiency (%)

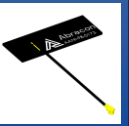


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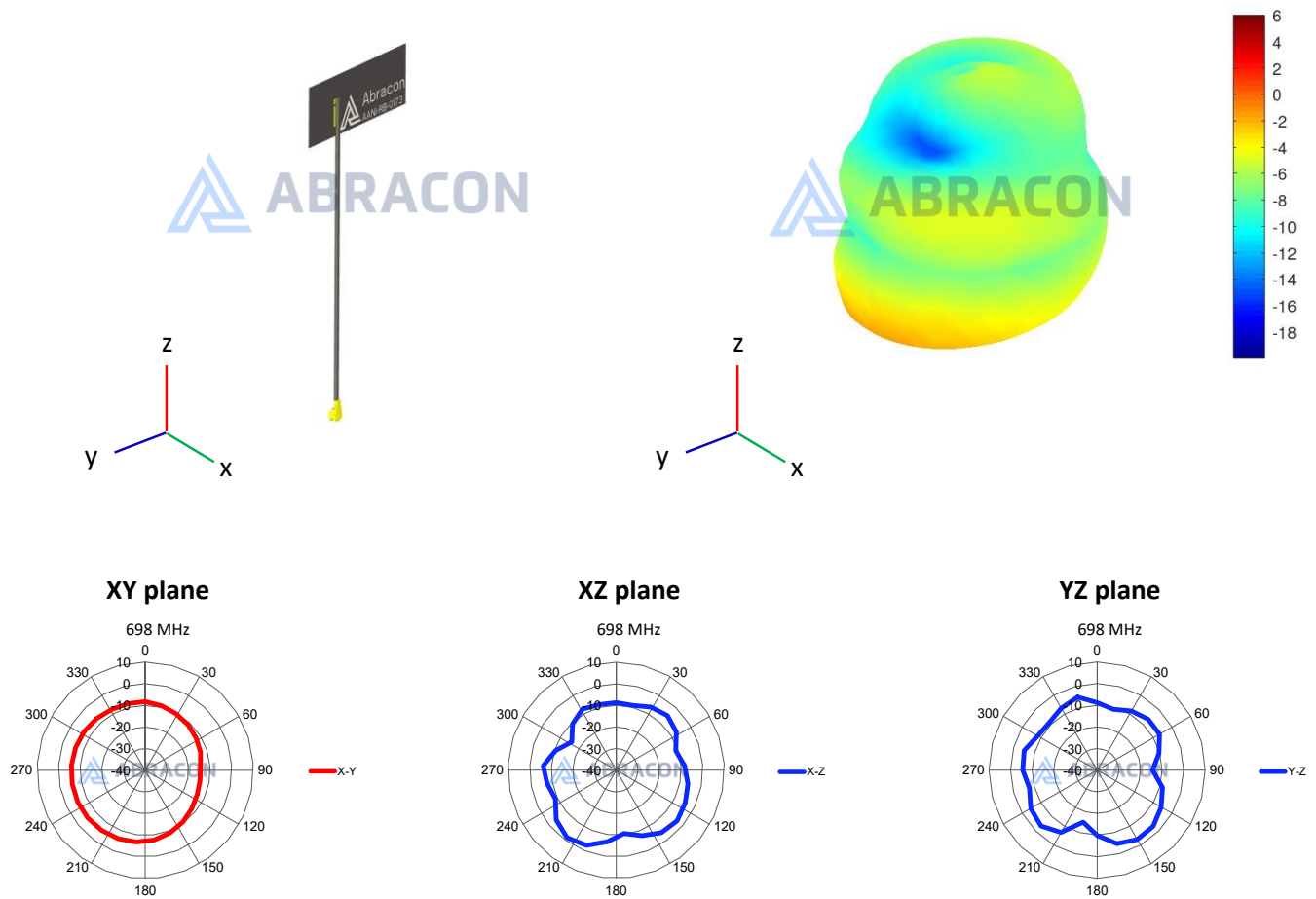
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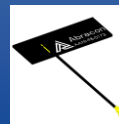
40 x 15 x 0.2 mm
RoHS/RoHS II Compliant
MSL Level = N/A

Radiation Characteristics – 3D & 2D pattern

3D & 2D Pattern @ 698 MHz



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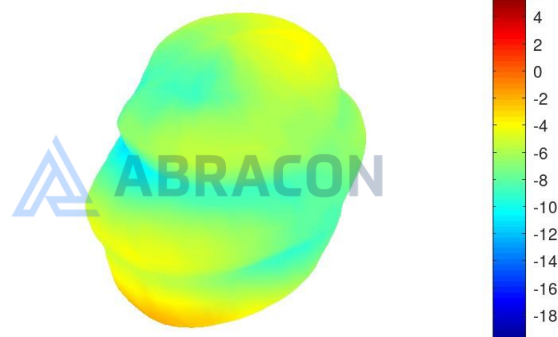
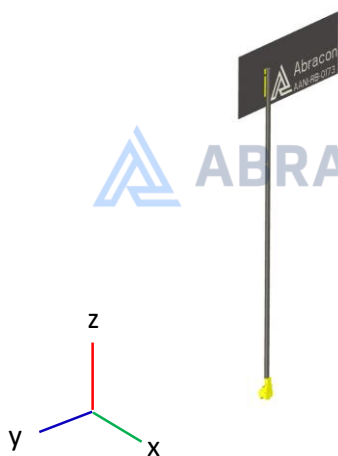


40 x 15 x 0.2 mm

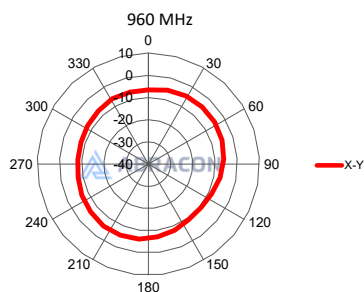
RoHS/RoHS II Compliant

MSL Level = N/A

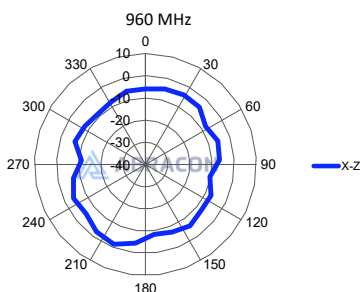
3D & 2D Pattern @ 960 MHz



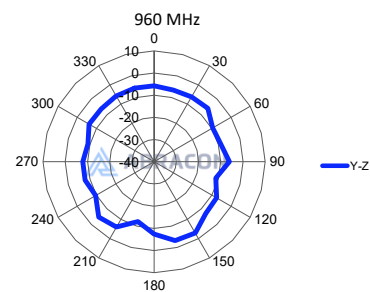
XY plane



XZ plane



YZ plane

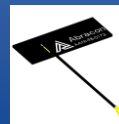


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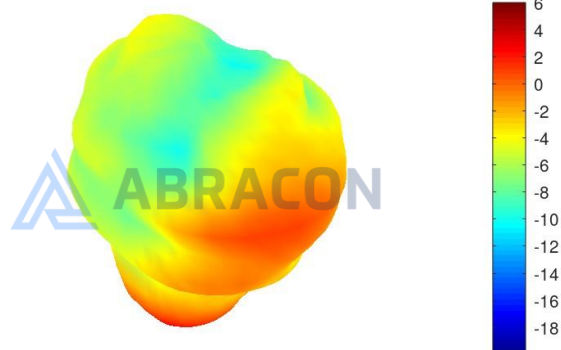
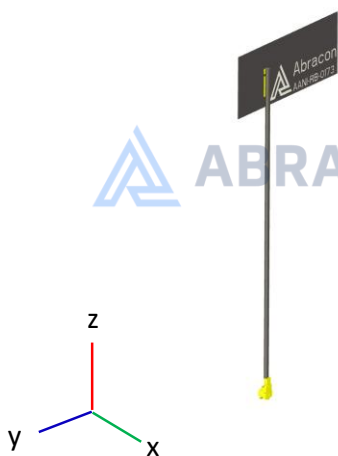


40 x 15 x 0.2 mm

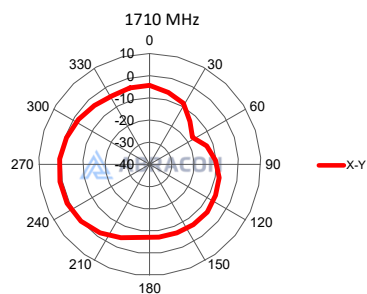
RoHS/RoHS II Compliant

MSL Level = N/A

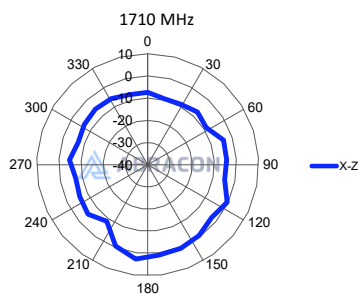
3D & 2D Pattern @ 1710 MHz



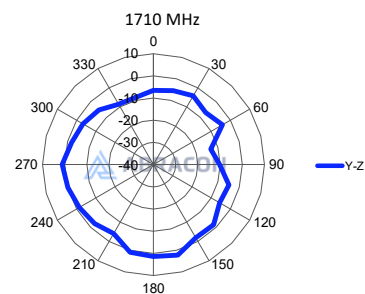
XY plane



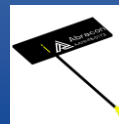
XZ plane



YZ plane



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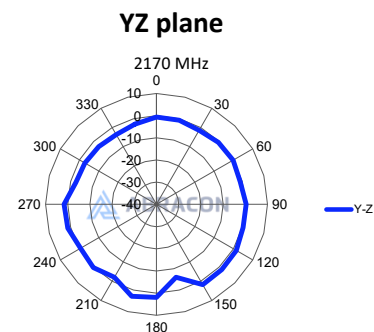
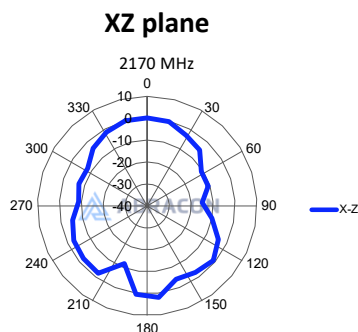
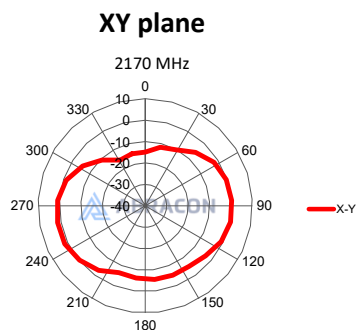
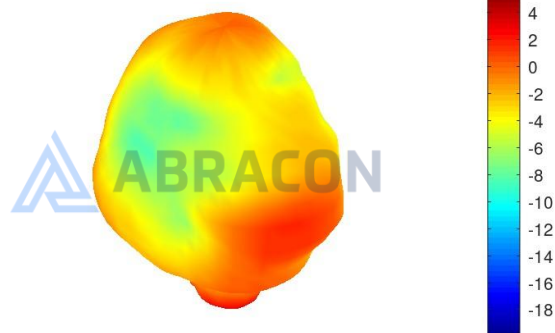
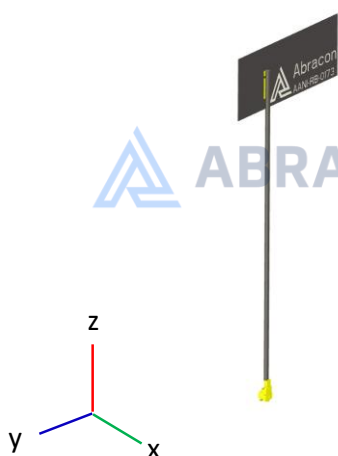


40 x 15 x 0.2 mm

RoHS/RoHS II Compliant

MSL Level = N/A

3D & 2D Pattern @ 2170 MHz

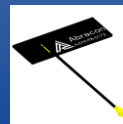


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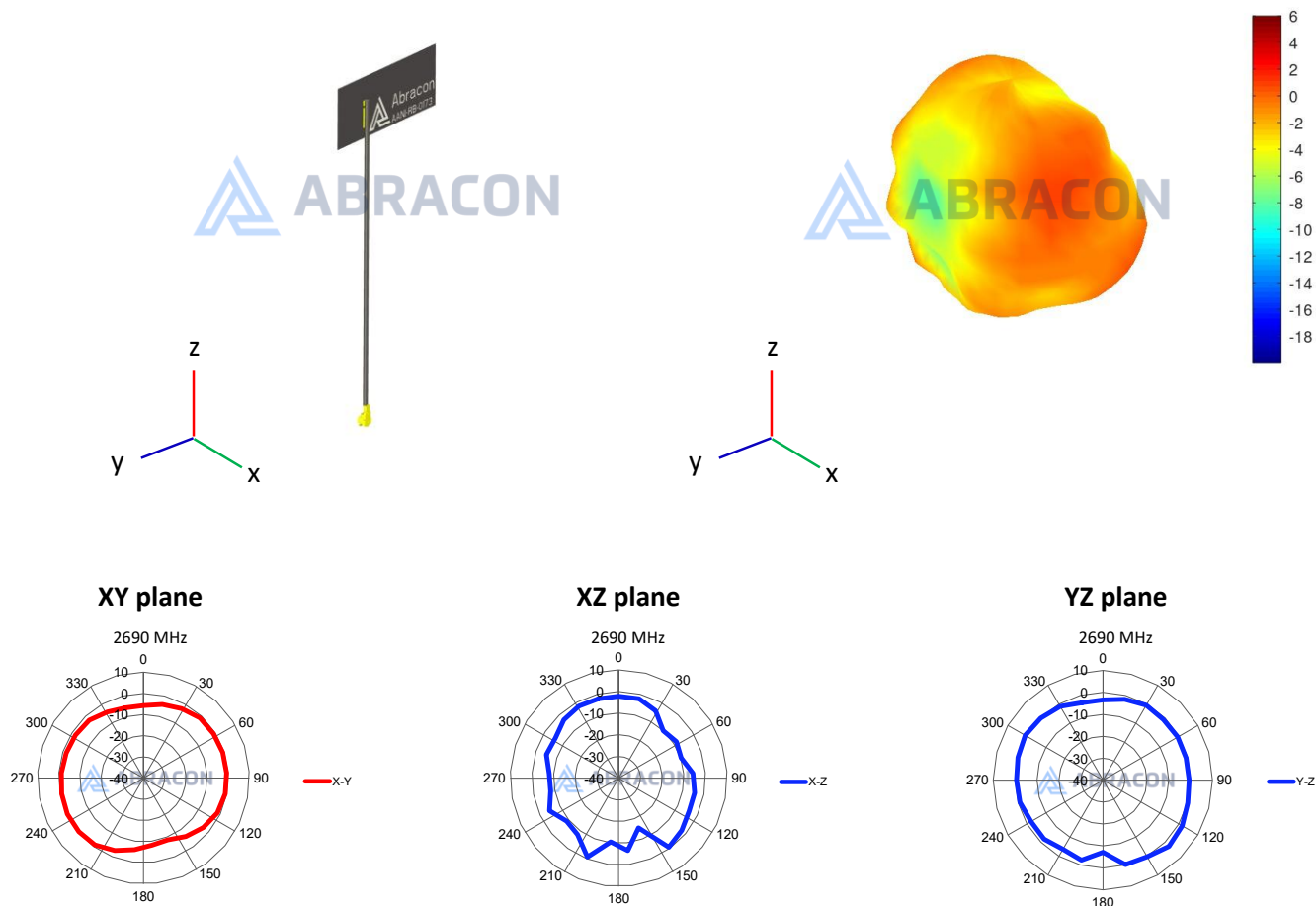


40 x 15 x 0.2 mm

RoHS/RoHS II Compliant

MSL Level = N/A

3D & 2D Pattern @ 2690 MHz



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