

LTE/5G wideband External dome Antenna

AEMF3108X-F

Features

- High efficiency up to 89%
- High peak gain up to 6.9 dBi
- IP67
- Screw mount
- RoHS complaint

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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Electrical Specification

Parameter	Specification				Unit
Operating Frequency	617-960	1400-2700	3300-4400	4400-6000	MHz
VSWR (Typ.)	<3.0				
Peak Gain	1.9	5.3	6.9	5.4	dBi
Efficiency (Maximum)	84	89	87	71	%
Impedance	50				Ω
Polarization	Linear				
Radiation Pattern (Azimuth)	Omni-directional				
Input Power (Ambient 25°C)	5				W

Mechanical Specification

Parameter	Specification
Dimensions	80 x \varnothing 52.7 mm
Material	ABS ⁽¹⁾
Color	Black
Antenna Type	Dome
RF Connector	NF(BH)

(1): UV Resistant optional

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C~+85°C
Storage Temperature	-40°C~+85°C
IP Rating	IP67
RoHS Complaint	Yes



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REVISED: 07-14-23

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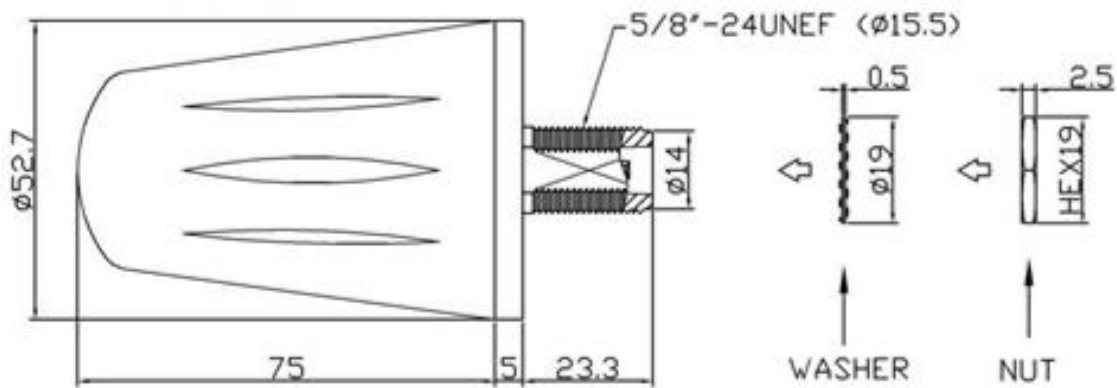
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Ordering Information

Part Number	Description	Connector Option
AEMF3108X-F	LTE/5G wideband External dome Antenna with NF(BH) connector	NF(BH)

Product Dimensions



Unit : mm

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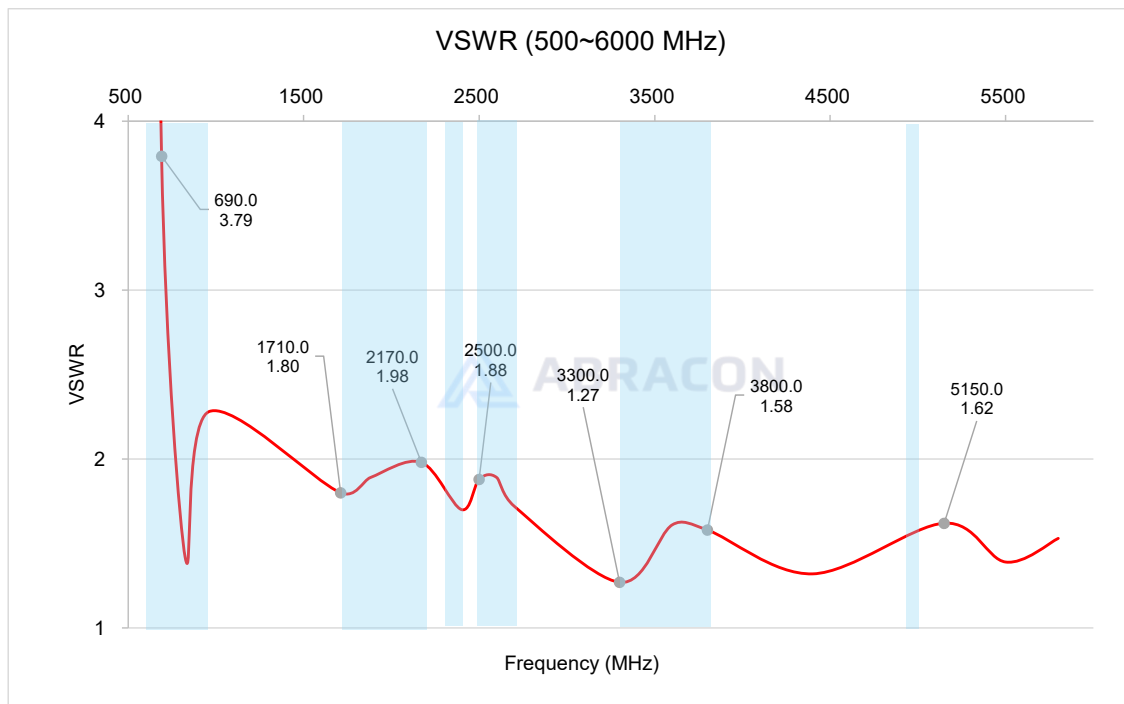
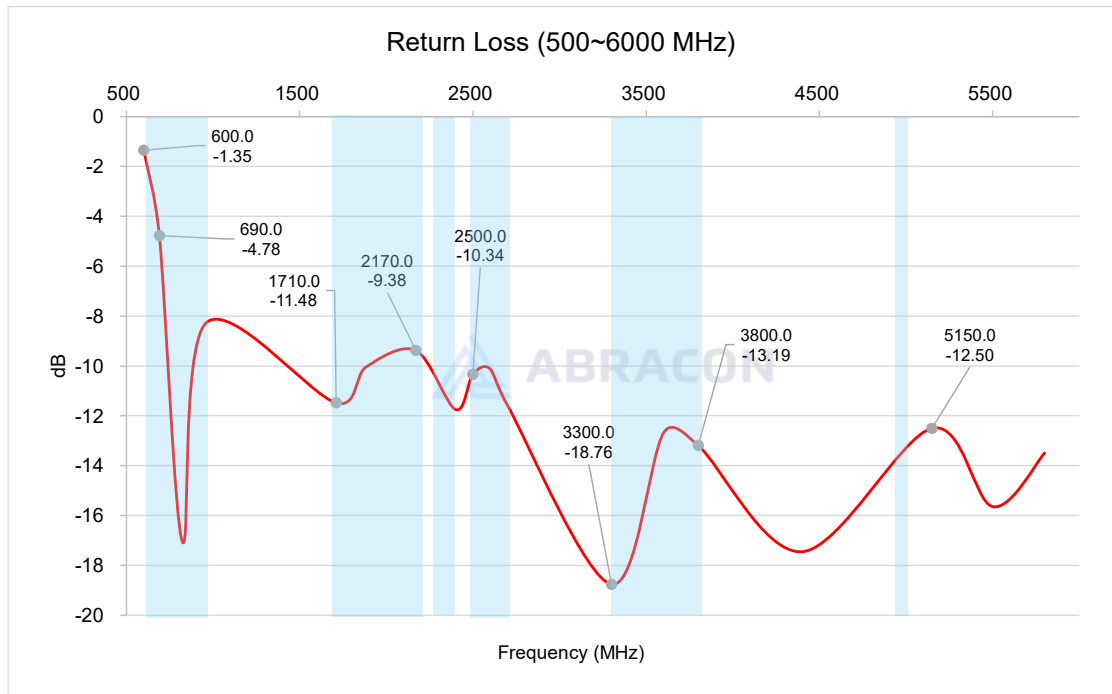
Measurement Setup



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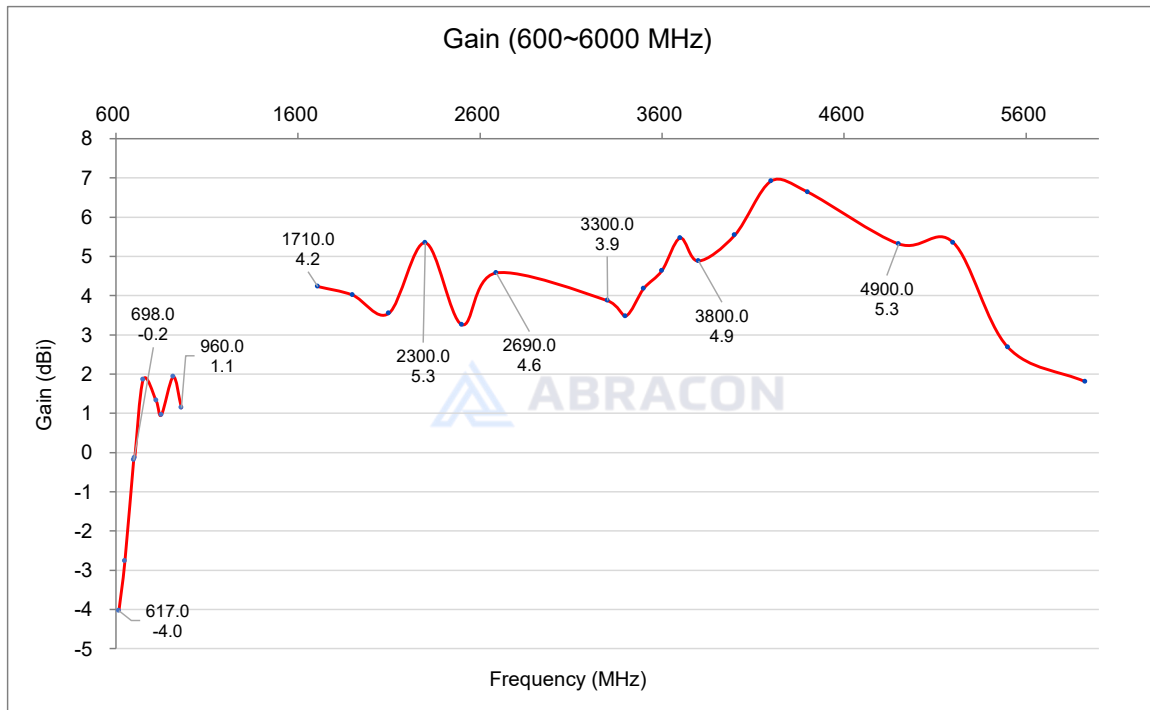
Reflection Characteristics – Return Loss & VSWR



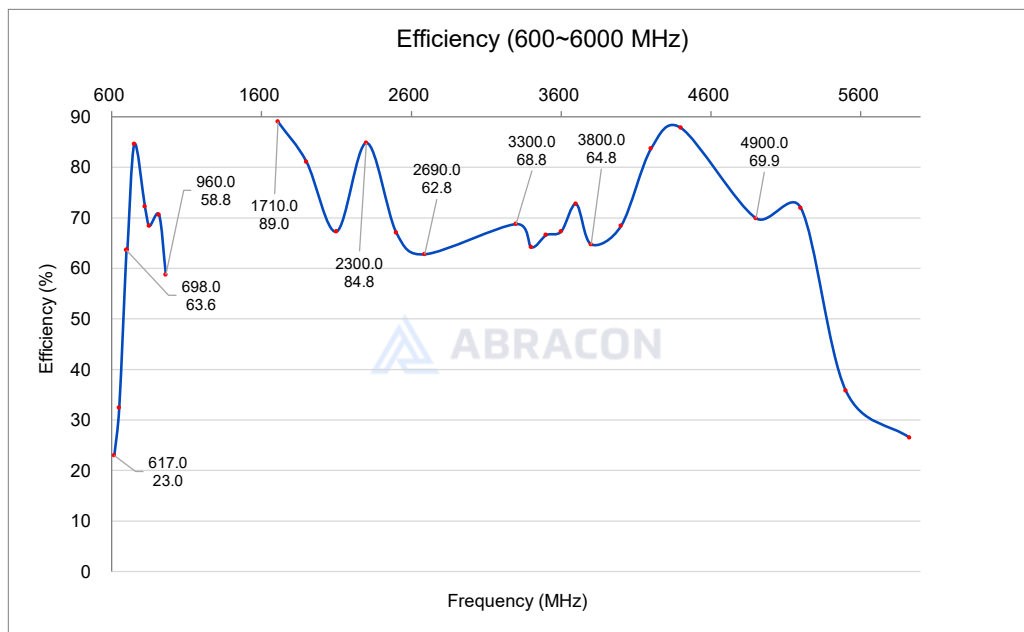
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Radiation Characteristics – Peak Gain



Radiation Characteristics – Total Efficiency (%)

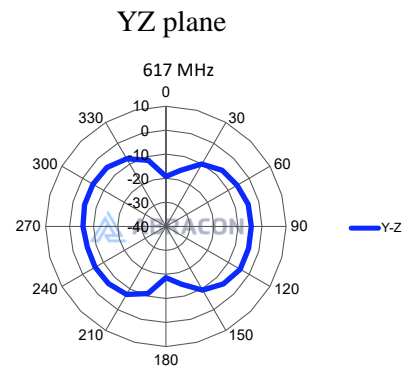
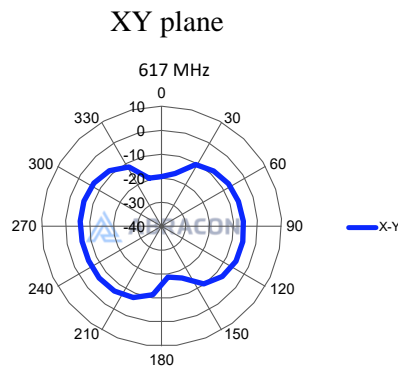
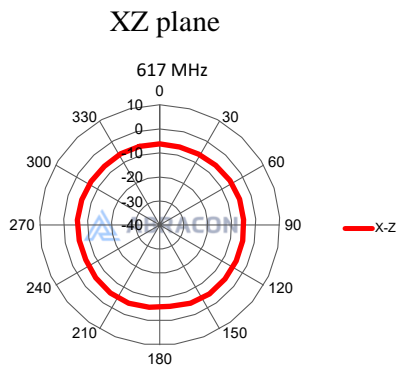
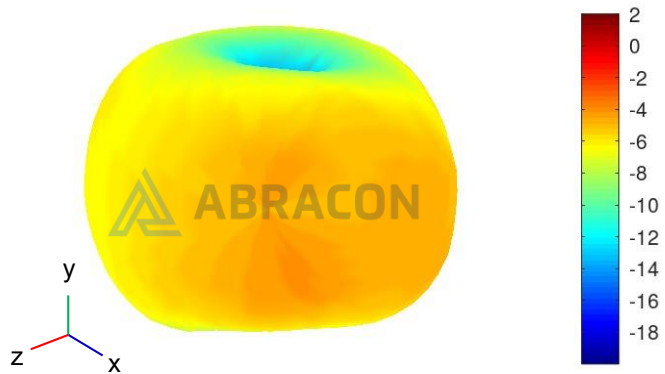
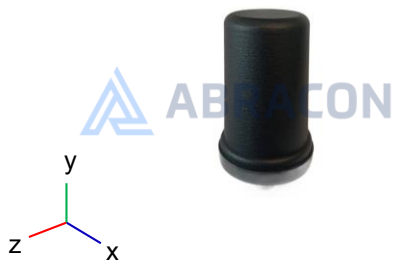


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Radiation Characteristics – 3D & 2D Pattern

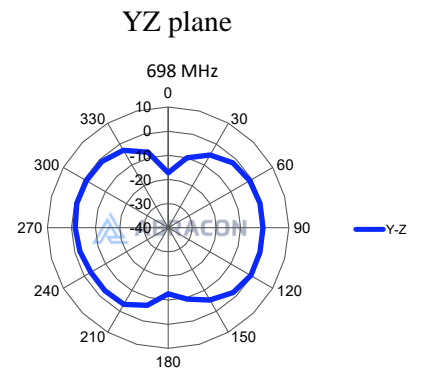
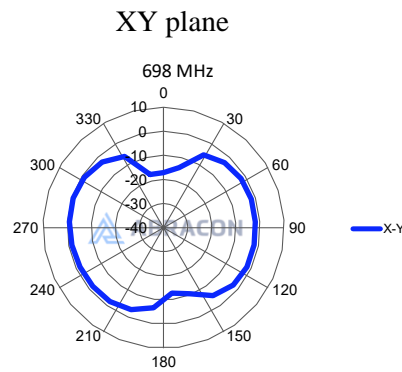
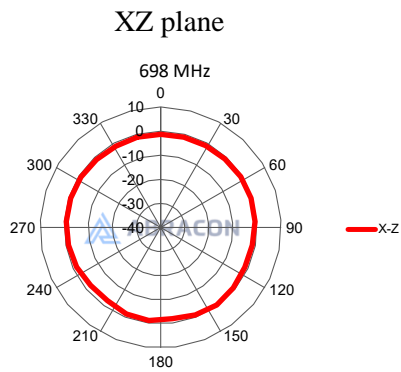
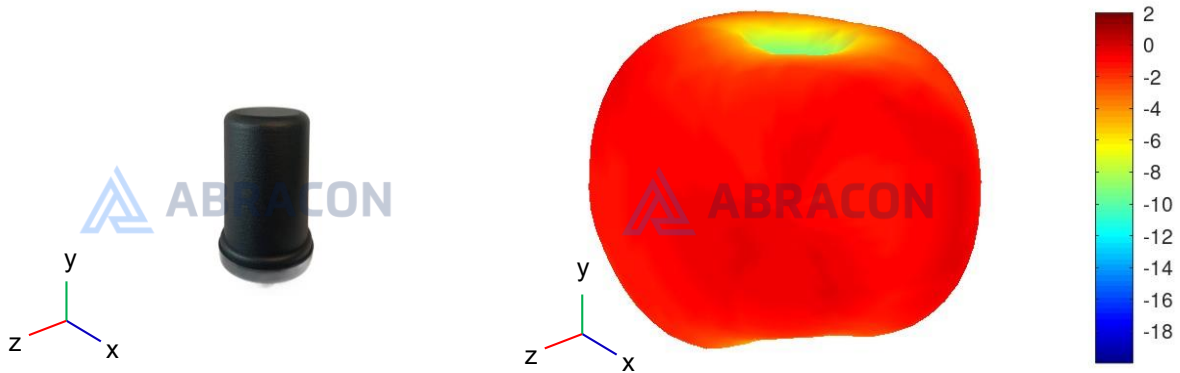
617MHz



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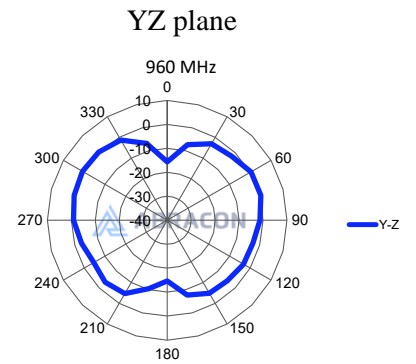
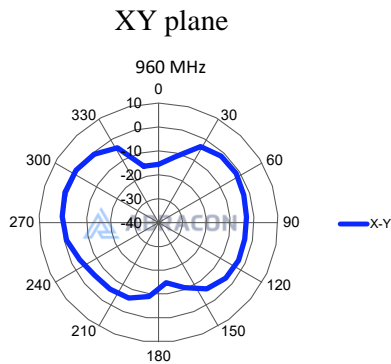
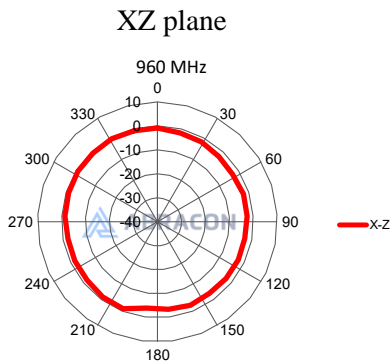
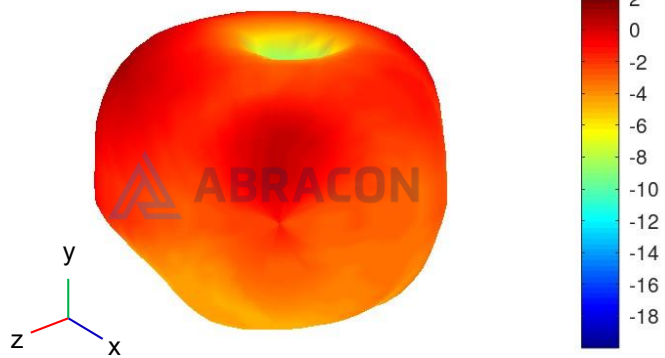
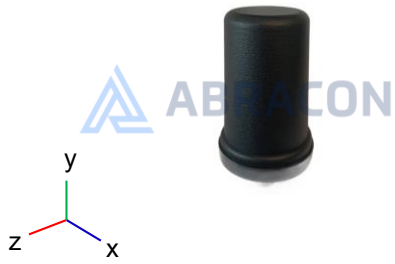
698MHz



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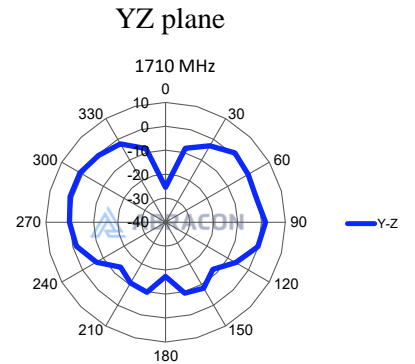
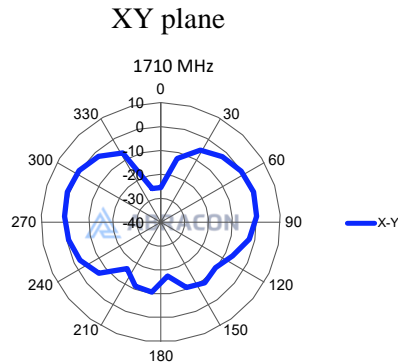
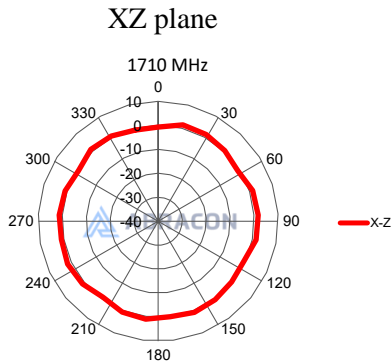
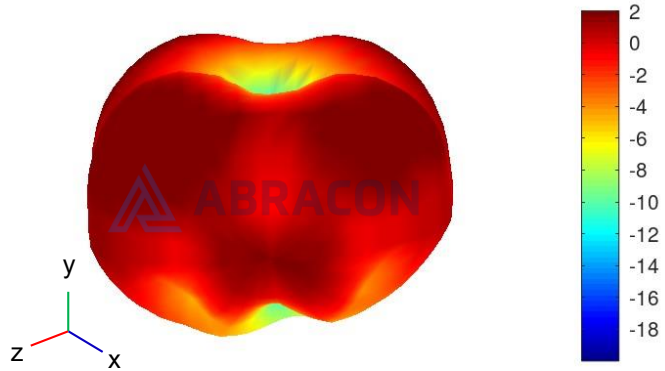
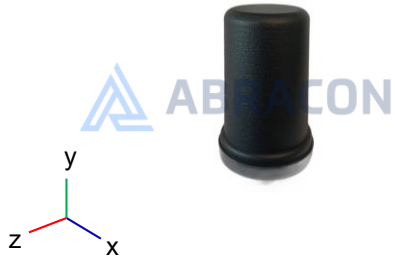
960MHz



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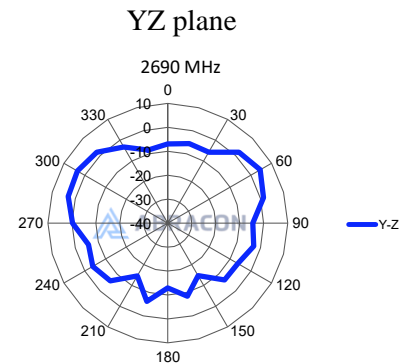
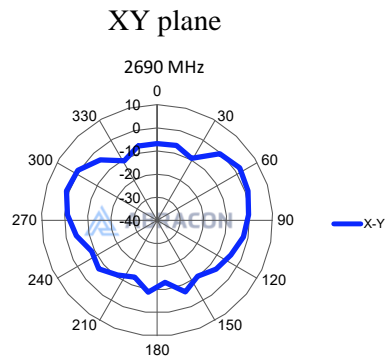
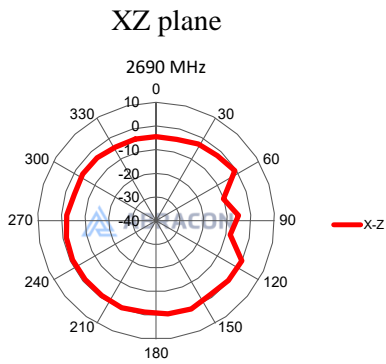
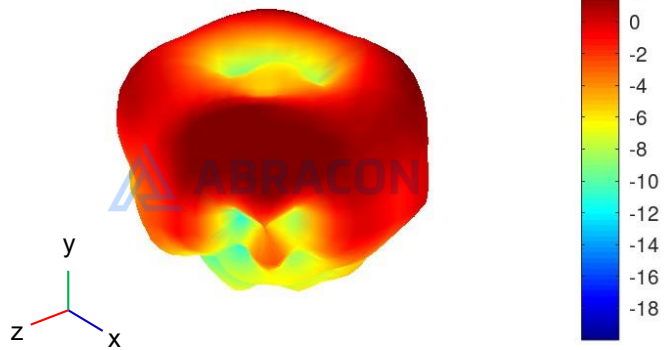
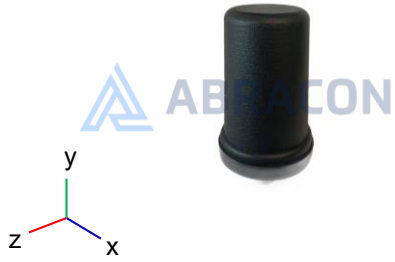
1710MHz



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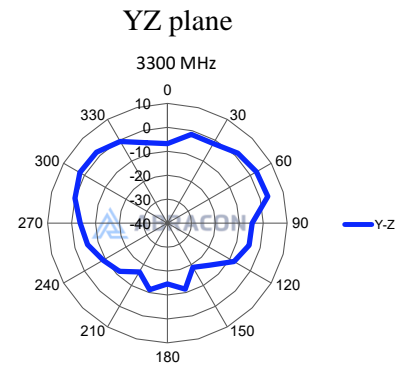
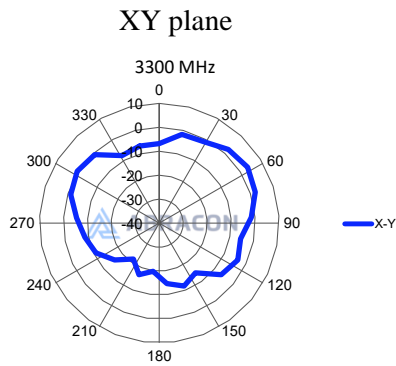
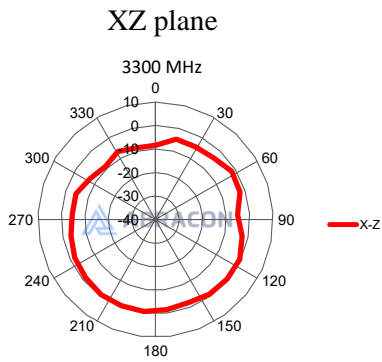
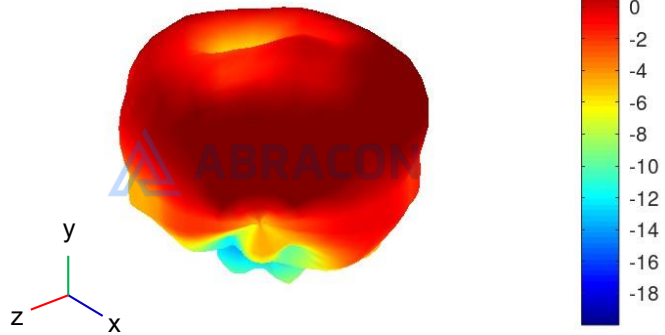
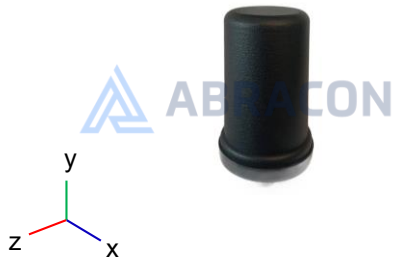
2690MHz



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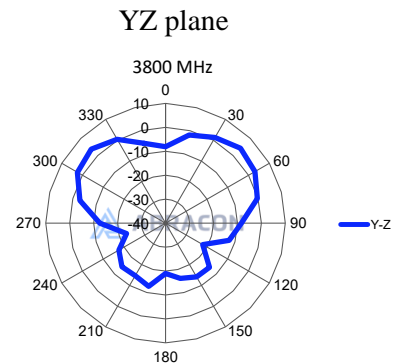
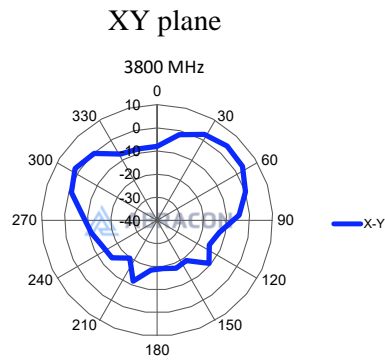
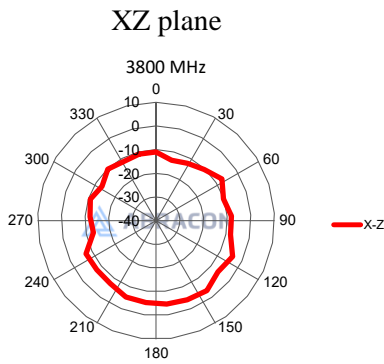
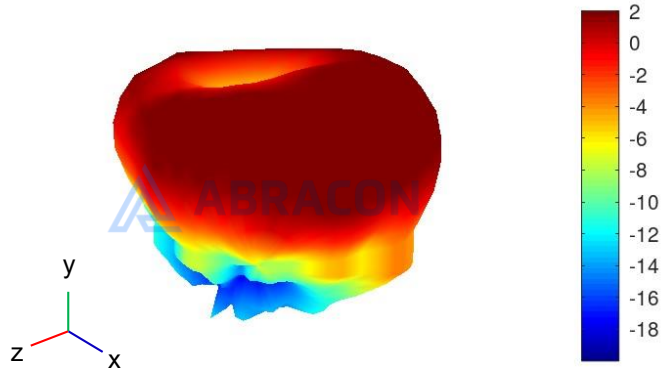
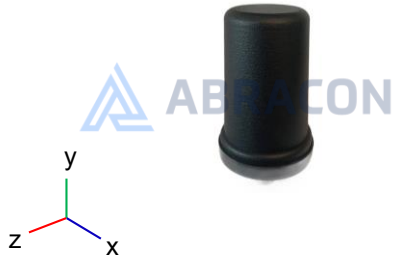
3300MHz



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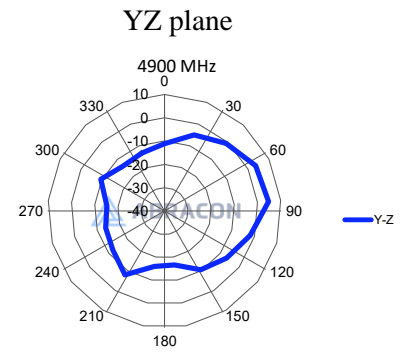
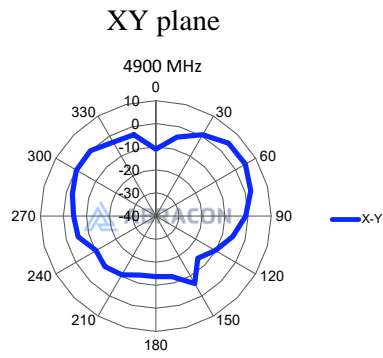
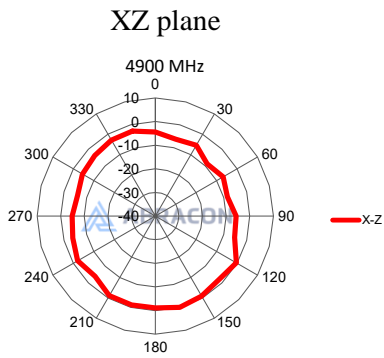
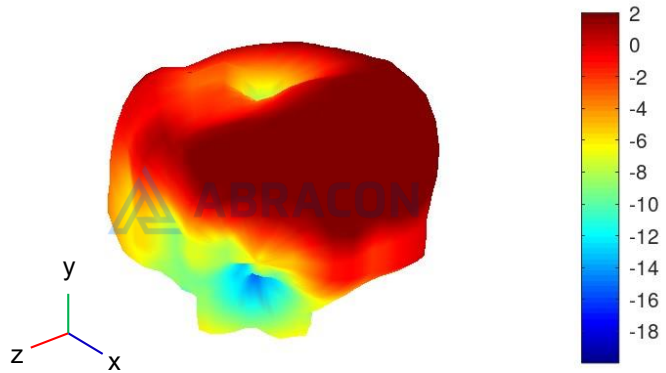
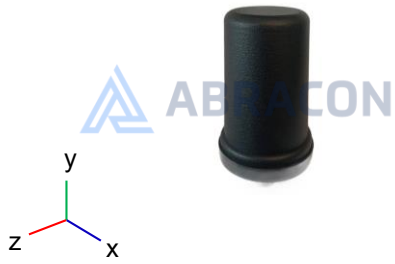
3800MHz



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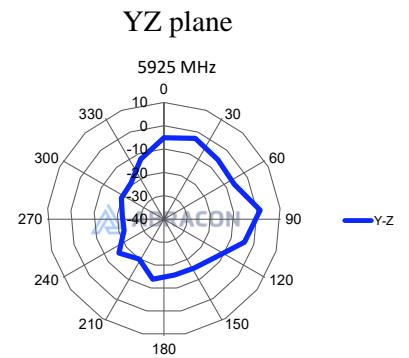
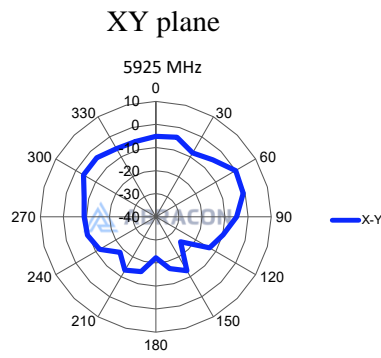
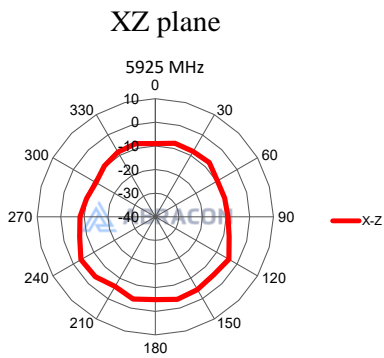
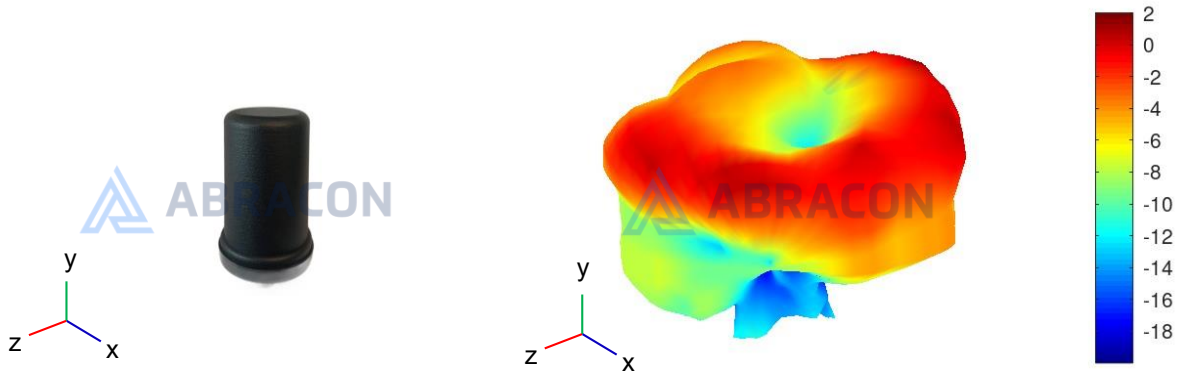
4900MHz



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5925MHz



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Packaging

Number of antennas / PE bag: 10 pcs

Number of PE bags / carton: 15

Total antennas / carton: 150 pcs

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