

Description: LTE698-960/1710-2690MHzSMA

Series: ICEBLADE

PART NUMBER: ICEBLADELS

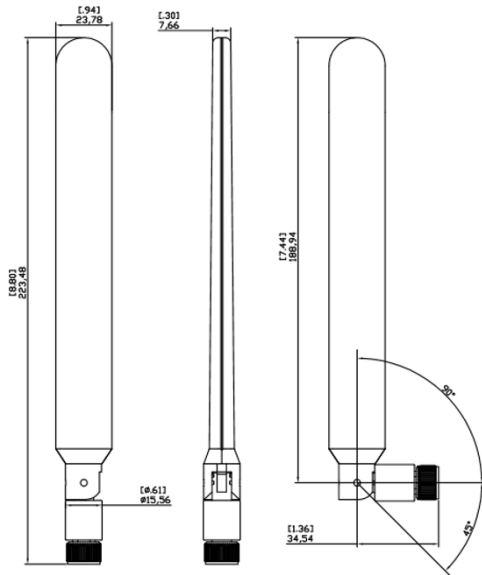


Features:

- 690-2690MHz
- Gain 1.6/2.5dBi
- 90 degree swivel
- SMA connector
- Translucent visually appealing radome

Applications:

- LTE radios
- Gateways
- Set top boxes
- M-to-M, IoT



All dimensions are in mm / inches

Issue:1747

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



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ELECTRICAL SPECIFICATIONS

Frequency	698-960/1710-2690	MHz
Nominal Impedance	50	Ω
VSWR	2.5 :1	
Average Efficiency(698-960MHz)	37	%
Average Efficiency(1710-2690MHz)	60	%
Peak Gain (698-960MHz)	1.6	dBi +/- 1 dB
Peak Gain(1710-2690MHz)	2.5	dBi +/- 1 dB
Polarization:	linear	
Power withstanding	3	W
Connector type	SMA	

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MECHANICAL SPECIFICATIONS

Plastic radome	PC945A
Color	Clarity
Flammability(Radome)	UL94 V-0
Weight	45.4g
Positions	0°, 45° & 90°
Overall length	8.8 INCHES
Fixing system	° ± 2 °
Azimuth adjustment	° ± 4°
Elevation adjustment	° ± 4°

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-30/+70° C
Temperature	
Stationary	-40/+85° C
Cyclic	Rate 5°C/min, 16 hours
Humidity	
Stationary	95%@ 25° C
Cyclic	12 hours
Salt mist	96 hours

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MECHANICAL DRAWING

	A	B	C	D	E	F	G																																				
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<p>1. OPERATING TEMP: -40/+70 C°</p> <p>2. VIBRATION: 5-500 Hz FREQ, MIL STD 810 G section 514.6</p> <p>3. THERMAL SHOCK: 3 CYCLES MIL-STD 810G Method 503.4</p> <p>4. HUMIDITY: +30° @ 93% RH MIL-STD 810G Method 507.4</p> <p>5. DROP TEST: 1 METER, 1 DROP, 1 PER AXIS.</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>ITEM</th> <th>QTY</th> <th>PART NUMBER</th> <th>DESCRIPTION</th> </tr> <tr> <td>8</td> <td>1</td> <td>043-3905.001</td> <td>ICEBLADE Plate</td> </tr> <tr> <td>7</td> <td>1</td> <td>043-5091.001</td> <td>WS080 Rubber White</td> </tr> <tr> <td>6</td> <td>2</td> <td>0020.0015</td> <td>PIVOT PIN</td> </tr> <tr> <td>5</td> <td>1</td> <td>155-2250.001</td> <td>ICEBladeLS SMA Cable Sub Assy</td> </tr> <tr> <td>4</td> <td>1</td> <td>043-3757.001</td> <td>ICE Blade Base</td> </tr> <tr> <td>3</td> <td>1</td> <td>025-8121.001</td> <td>ICE Blade LS FPC</td> </tr> <tr> <td>2</td> <td>1</td> <td>043-3758.001</td> <td>ICE Blade Radome Top</td> </tr> <tr> <td>1</td> <td>1</td> <td>043-3755.001</td> <td>ICE Blade Radome Swivel</td> </tr> </table>							ITEM	QTY	PART NUMBER	DESCRIPTION	8	1	043-3905.001	ICEBLADE Plate	7	1	043-5091.001	WS080 Rubber White	6	2	0020.0015	PIVOT PIN	5	1	155-2250.001	ICEBladeLS SMA Cable Sub Assy	4	1	043-3757.001	ICE Blade Base	3	1	025-8121.001	ICE Blade LS FPC	2	1	043-3758.001	ICE Blade Radome Top	1	1	043-3755.001	ICE Blade Radome Swivel
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<p>Confidential This is a proprietary information of Pulse Suzhou. No reproduction/copying is allowed without permission.</p>	<p>Functional Characteristics Key (Cpk requirement < Cpk >)</p> <ul style="list-style-type: none"> ⬇ Process Capability Studies required (total pcs) ⬇ Ongoing Statistical Process Control Required (total pcs) ● Critical dimension need to be measured, no CPK requirement (total pcs) 																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2">PULSE (SUZHOU) WIRELESS PRODUCTS CO.,LTD.</td> <td colspan="2">99 HAIJIAO RD, SUZHOU NEW DISTRICT 215009 P.R.CHINA WWW.PULSEELECTRONICS.COM/EN/MS</td> </tr> <tr> <td colspan="2"> </td> <td colspan="2"> </td> </tr> <tr> <td colspan="2"> PRODUCTS) ICEBLADELS ITEM ICEBLADELS </td> <td colspan="2"> SHEET NUMBER 1/1 GENERAL TOLERANCE CUSTOMER NUMBER DESIGN Jiesie Fei 201521 CHECKED APPROVED SCALE 1:1 DOCUMENT NUMBER ICEBLADELS PART VERSION V01 DOCUMENT VERSION 10 MOB DATE NAME </td> </tr> </table>								PULSE (SUZHOU) WIRELESS PRODUCTS CO.,LTD.		99 HAIJIAO RD, SUZHOU NEW DISTRICT 215009 P.R.CHINA WWW.PULSEELECTRONICS.COM/EN/MS						PRODUCTS) ICEBLADELS ITEM ICEBLADELS		SHEET NUMBER 1/1 GENERAL TOLERANCE CUSTOMER NUMBER DESIGN Jiesie Fei 201521 CHECKED APPROVED SCALE 1:1 DOCUMENT NUMBER ICEBLADELS PART VERSION V01 DOCUMENT VERSION 10 MOB DATE NAME																									
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Issue:1747

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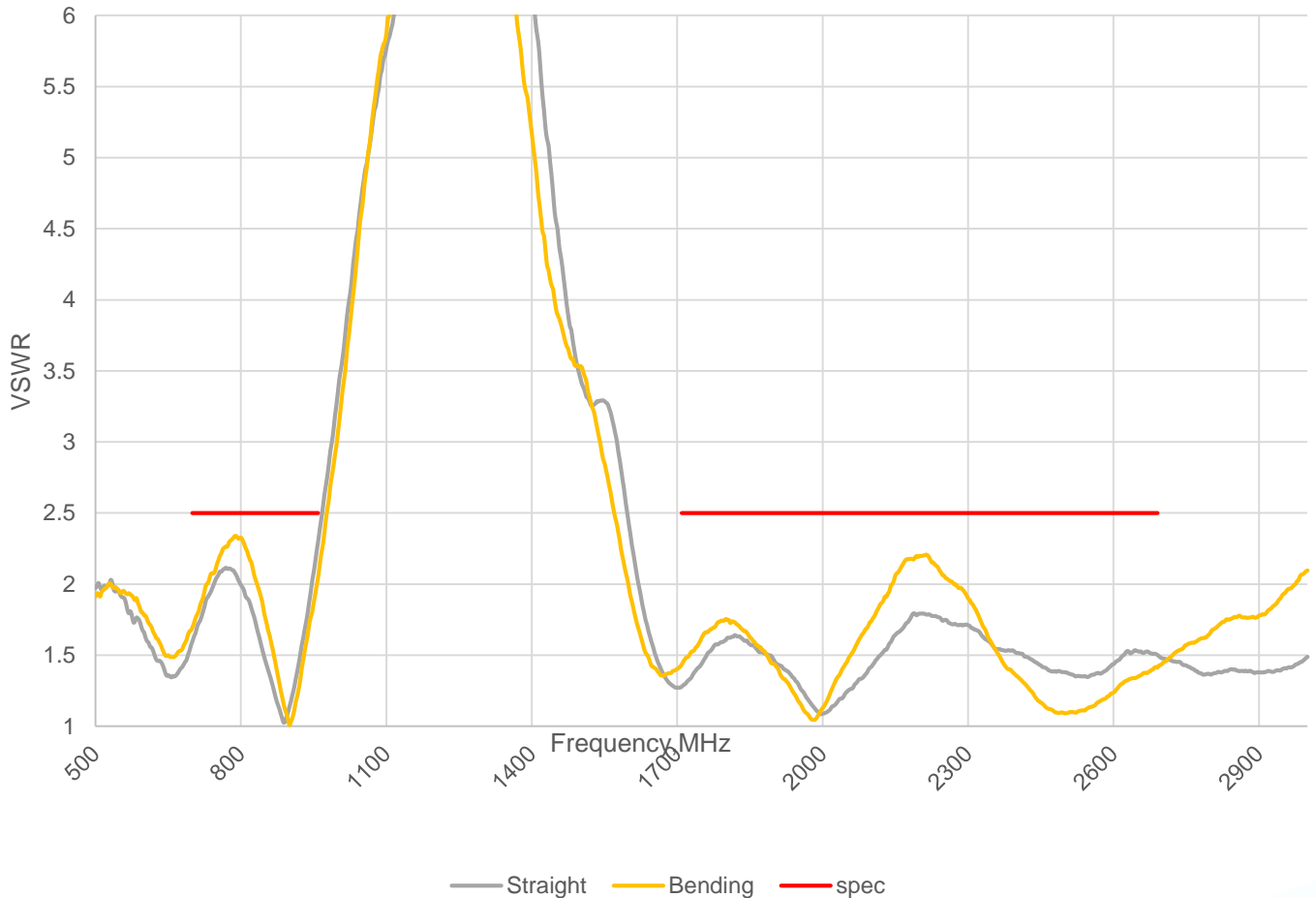
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OTHER SPECIFICATIONS

VSWR

VSWR vs Frequency measured in free space
IceBladeLS measured in PSU



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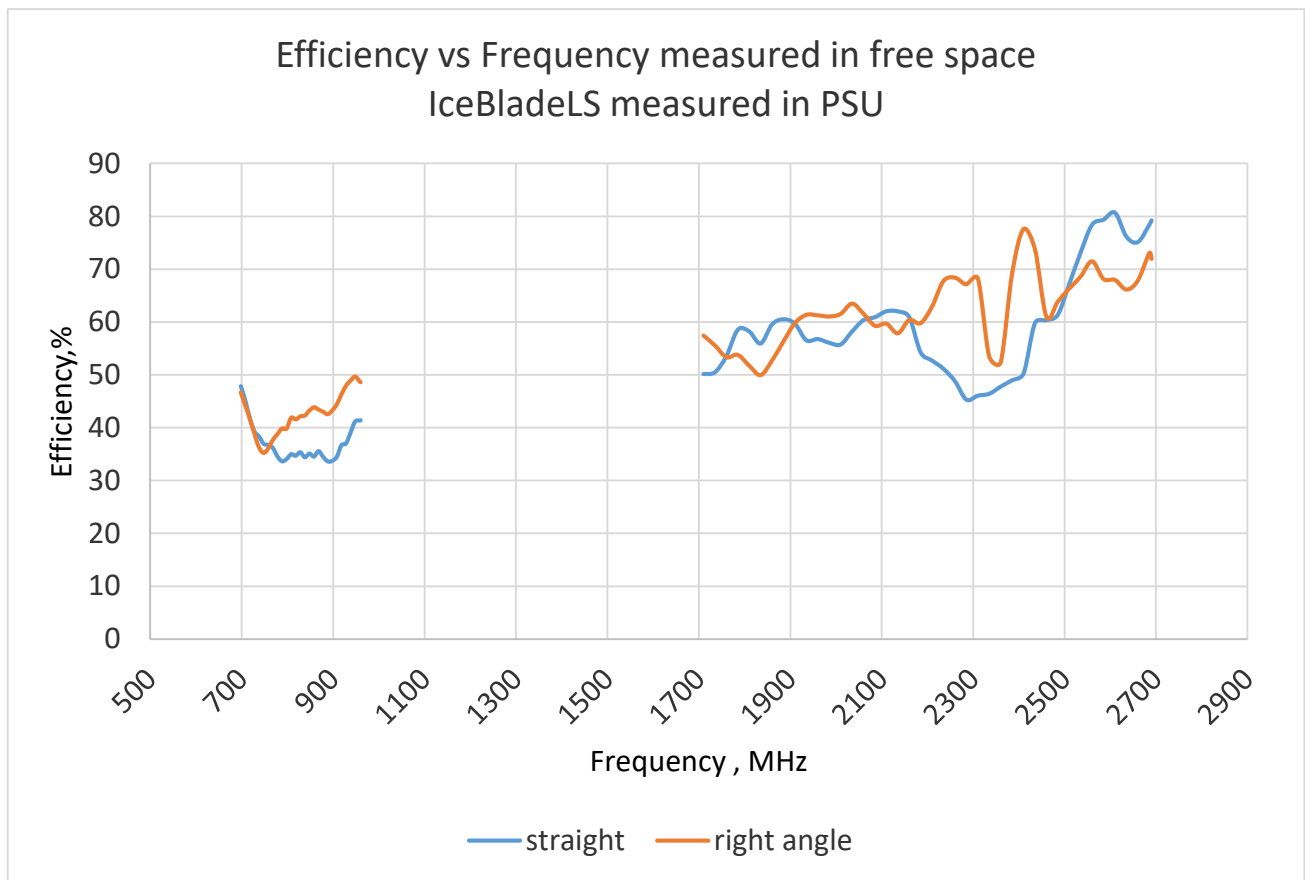
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CHARTS

Efficiency



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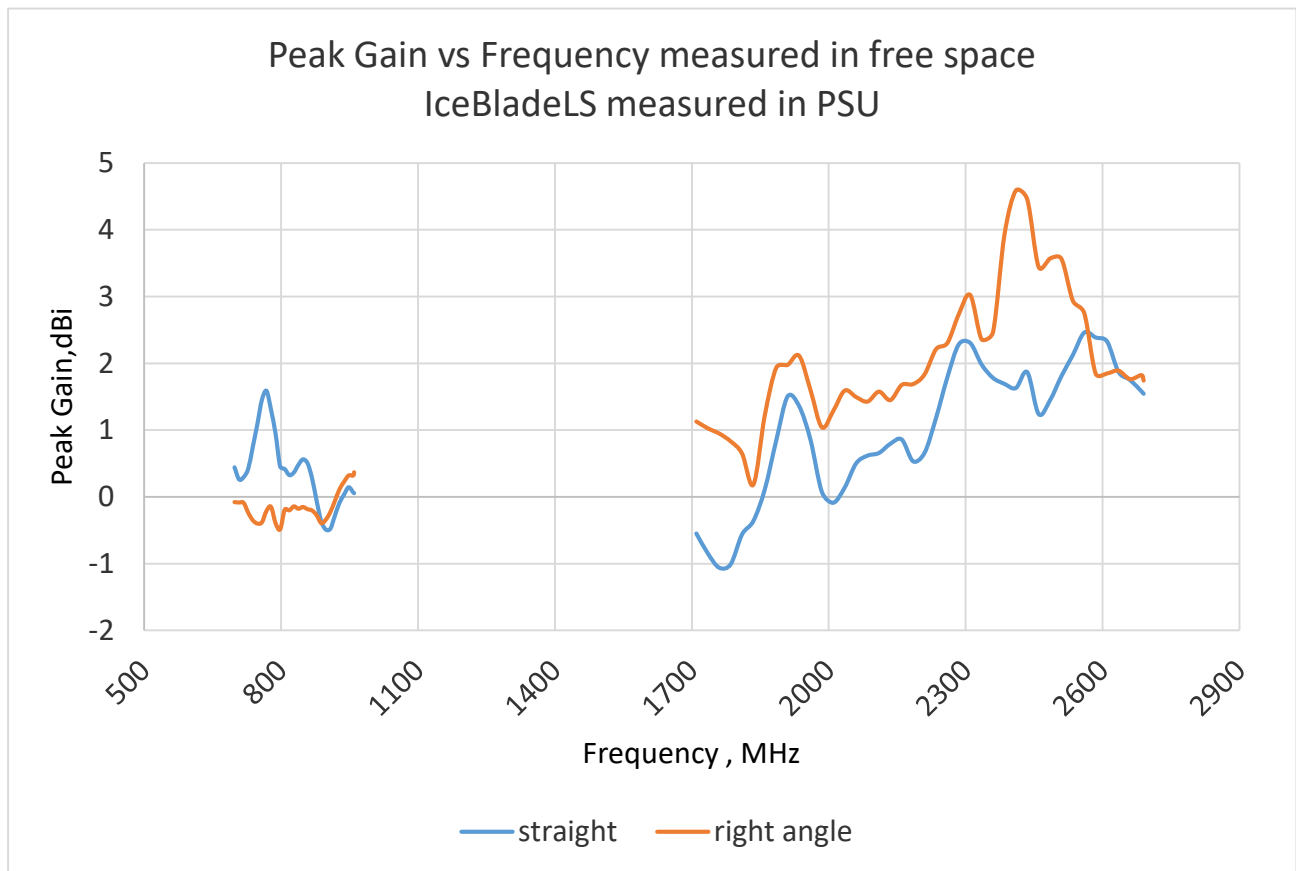
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CHARTS

Peak Gain



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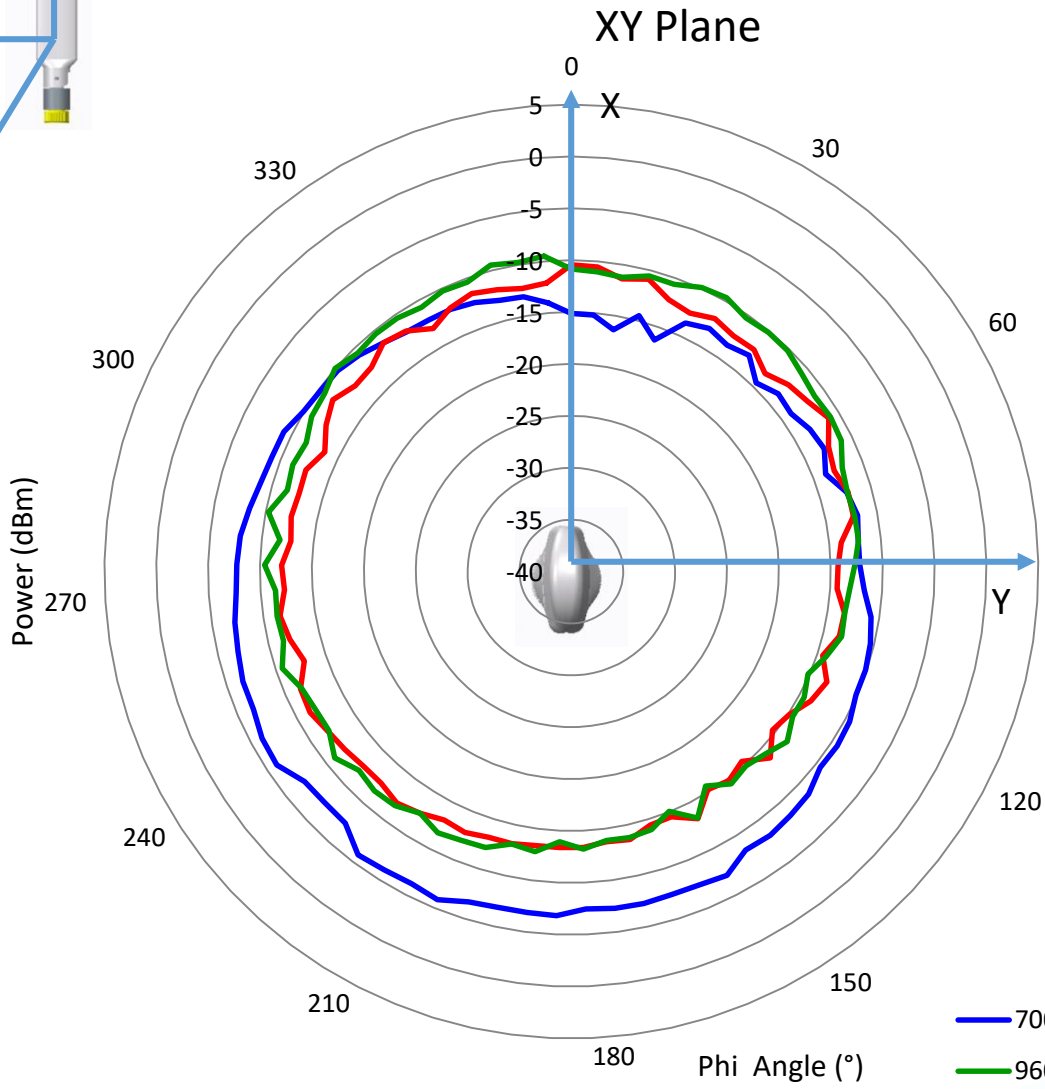
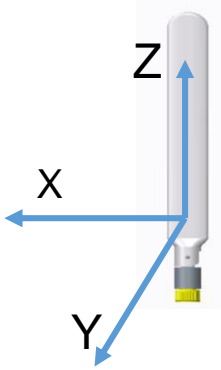
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CHARTS

Gain Plots



700MHz	Avg (dBi) = -10.12
	Peak (dBi) = -5.82
	Avg -3 (deg) = 15
	0
830MHz	Avg (dBi) = -12.75
	Peak (dBi) = -10.43
	Avg -3 (deg) = 28
	0
960MHz	Avg (dBi) = -11.88
	Peak (dBi) = -9.47
	Avg -3 (deg) = 24
	5

— 700MHz — 830MHz
— 960MHz

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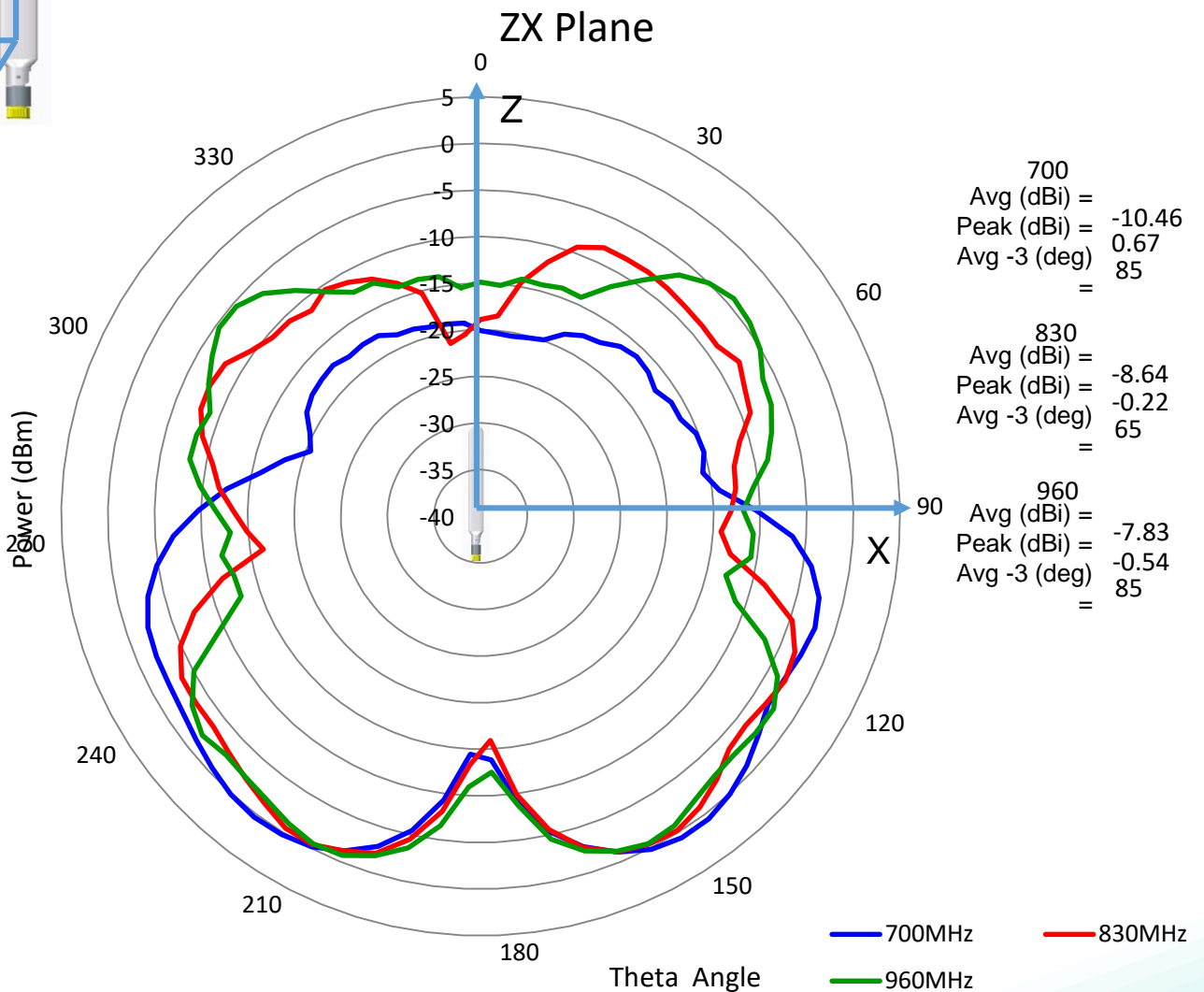
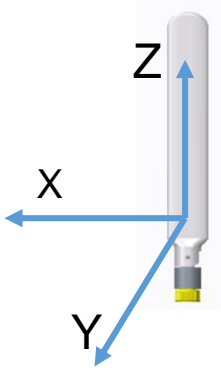
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CHARTS

Gain Plots



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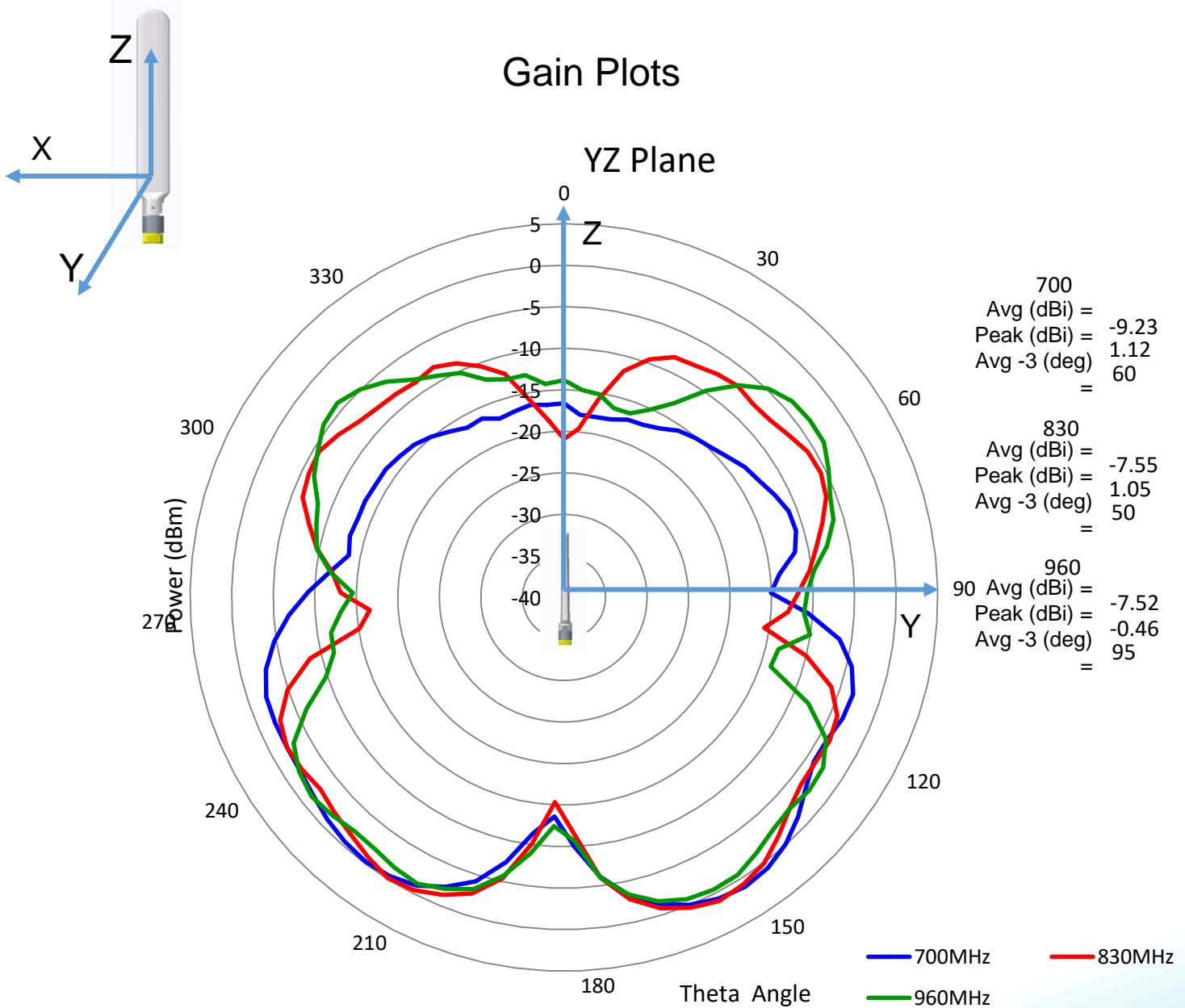
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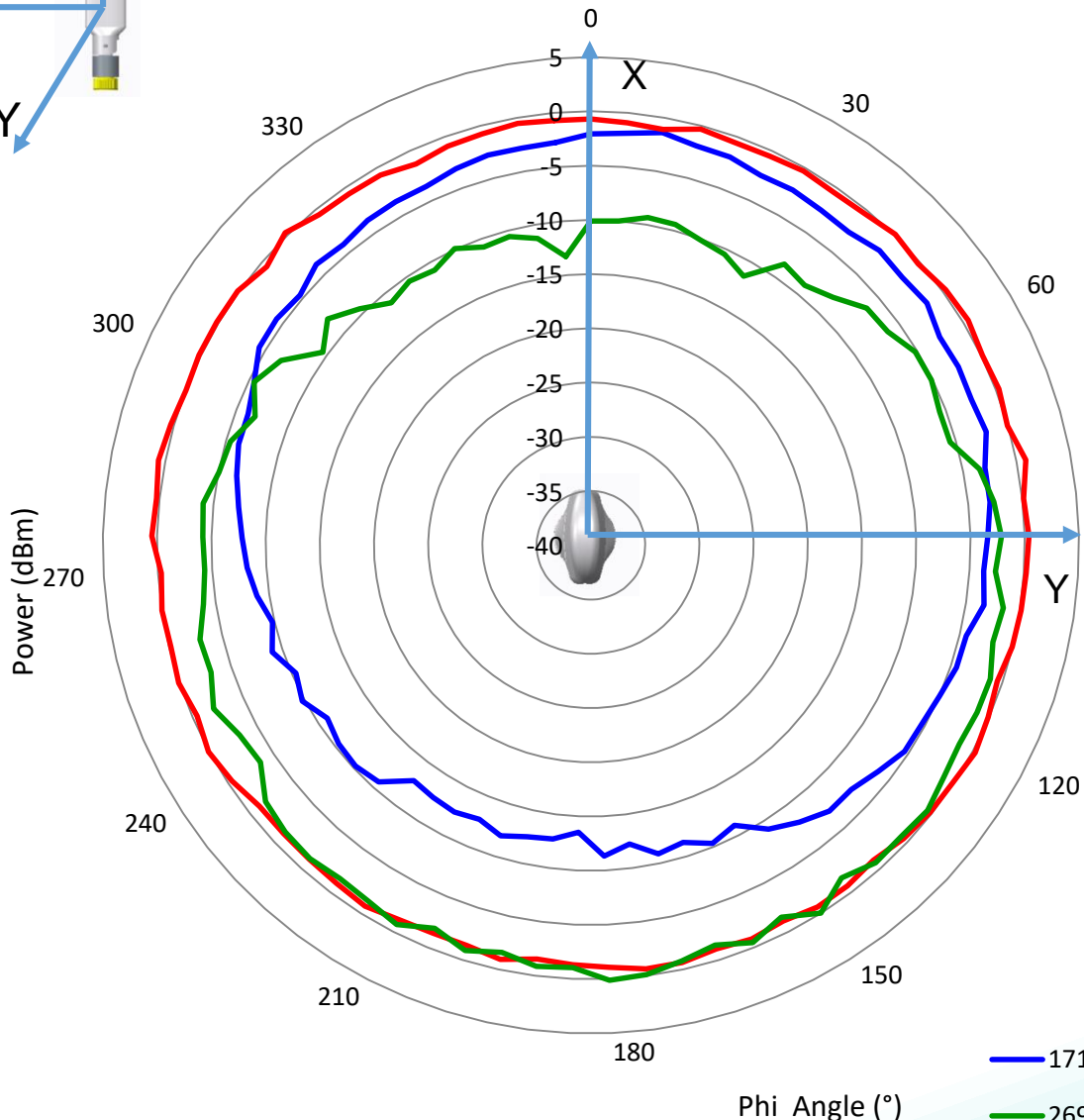
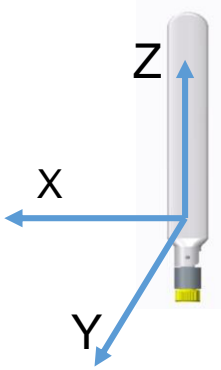
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CHARTS

Gain Plots

XY Plane



1710MHz	Avg (dBi) = -6.29
	Peak (dBi) = -1.40
	Avg -3 (deg) = 16
	0
2170MHz	Avg (dBi) = -0.41
	Peak (dBi) = 0.88
	Avg -3 (deg) = 36
	0
2690MHz	Avg (dBi) = -4.84
	Peak (dBi) = 0.14
	Avg -3 (deg) = 15
	5

— 1710MHz — 2170MHz
— 2690MHz

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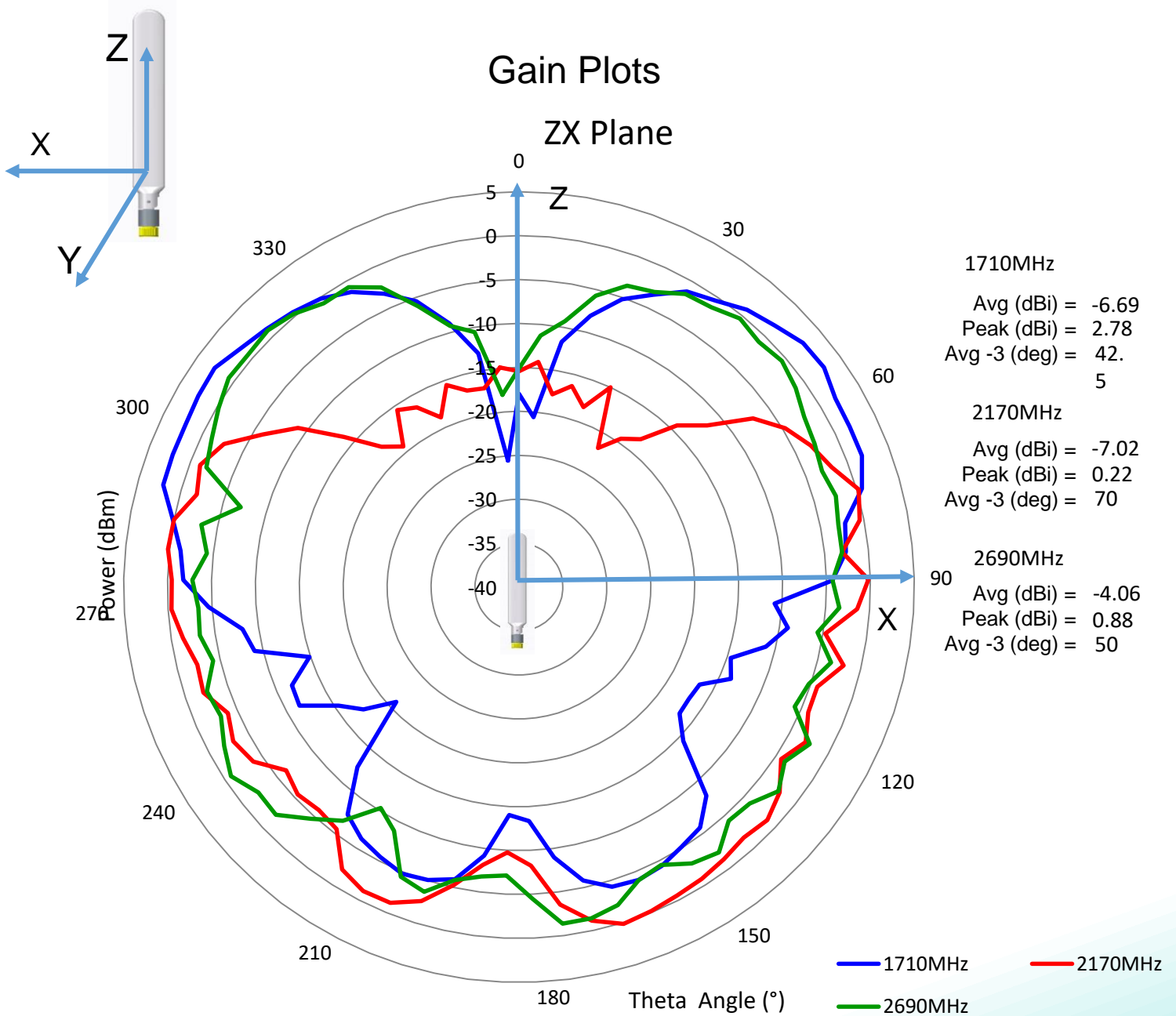
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CHARTS

Gain Plots

ZX Plane



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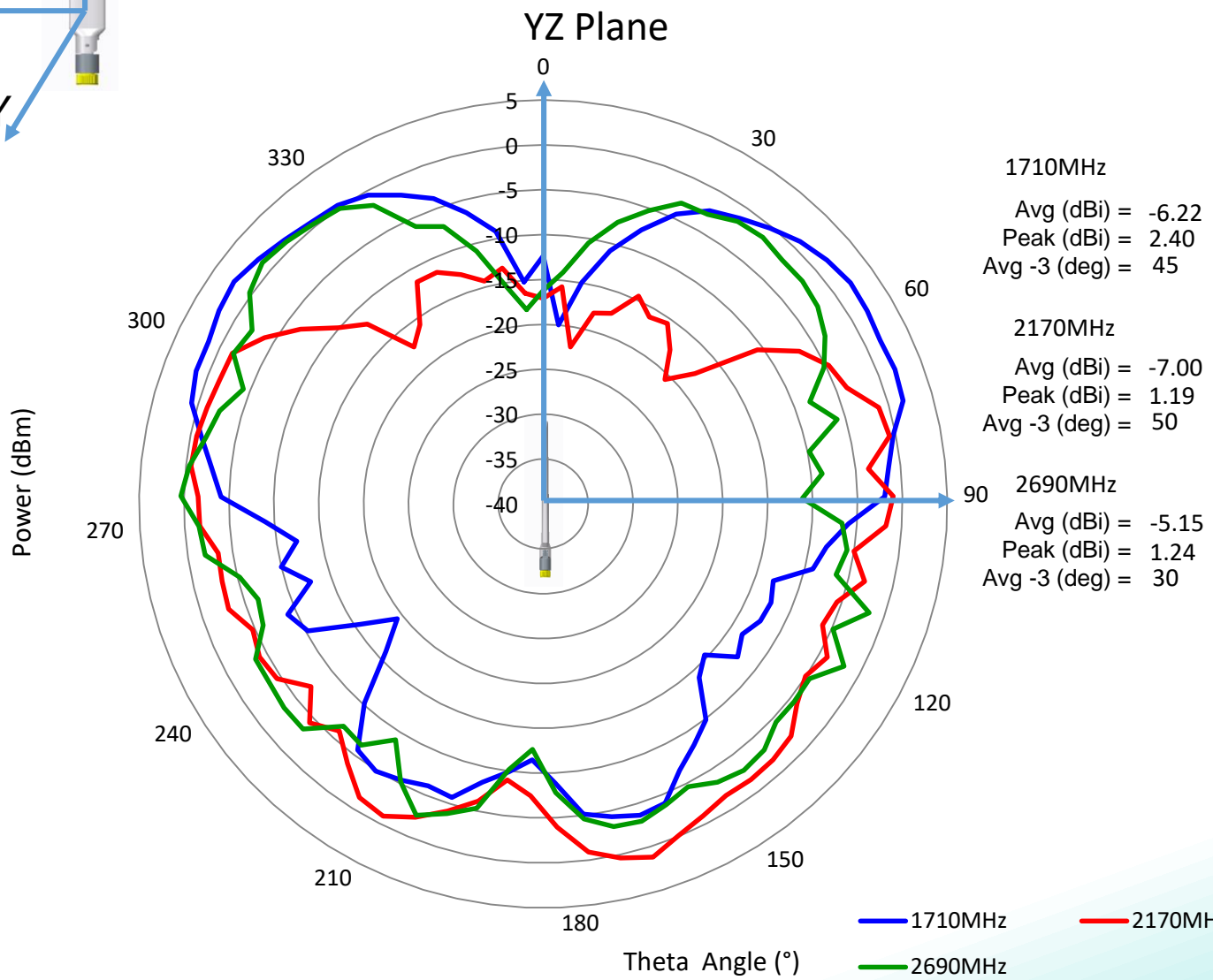
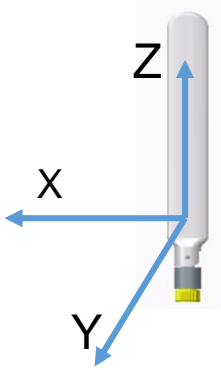
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PACKAGING

Pack each antenna into PE bag, 100 antenna in one box

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.