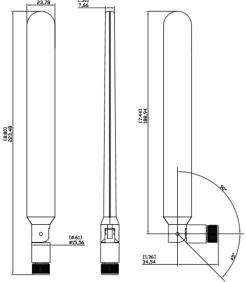




PART NUMBER: ICEBLADELS

Series: ICEBLADE





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. $\texttt{CONFIDENTIAL} \ \texttt{AND} \ \texttt{PROPRIETARY} \ \texttt{INFORMATION}$

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Series: ICEBLADE

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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	



TECHNICAL DATA SHEET

Description: LTE698-960/1710-2690MHzSMA

 $^{\circ} \pm 4^{\circ}$

Series: ICEBLADE

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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°			

FNVI	RONM	FNTAI	SPECIF	ICAT	IONS
		LIVIAL	SPEGII	IUAI	

Operating temperature	-30/+70° C
Operating temperature	-30/+/0° C

Temperature

Elevation adjustment

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 TITEM Cd Hg RE-DESCS PBB PBDE DTHERS to WIHS7.5.33 (Reliability Test Working Instruction) Default Description PPM=< 100 1000 1000 1000 1000 1000 A release dard is Test Standard A NOTES: UNLESS OTHERWISE SPECIFIED INTERPRET THIS SPECIFICATION PER PULSE PQ: 7.004.000 AND STANDARDS REFERENCED THEREIN. ELECTRICAL SPECIFICATIONS: 1. FREQ: MULTI BAND - 698-960/1710-2690 MHz 2. VSWR: MULTI BAND - 2.5-1 MAX 3. GAIN: O MIN-2 MAX dBi 4. POWER WITHSTANDING: 3W ENVIRONMENTAL: 1. OPERATING TEMP: 40+70.C 2. VIBRATION: 5-500 Hz FREQ, MIL STD 810 G section 514.6 3. THERMAL SHOCK: 3 CYCLES MIL-STD 810G Method 503.4 4. HUMIDITY: 4.90 © 93% RH MIL-STD 810G Method 507.4 5. DROP TEST. 1 METER, TROP, 1 PERAVIS. [1.36] 34,54 1 043-5091.001 2 0020.0015 1 155-2250.001 W5090 Rubber White PIVOT PIN ICEBladeLS SMA Cable Sub Assy 1 043-3757.001 1 025-8121.001 ICE Blade Base ICE Blade LS FPC PULSE (SUZHDU) VIRELESS PRODUCTS COLLTD. 1 043-3758.001 1 043-3755.001 ICE Blade Radome Top GENERAL TOLERANCE CUSTOMER NUMBER ICE Blade Radome Swivel ITEM QTY. PART NUMBER DESIGN DESCRIPTION Confidential

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ICEBLADELS

REDUCT(S)
ICEBLADELS

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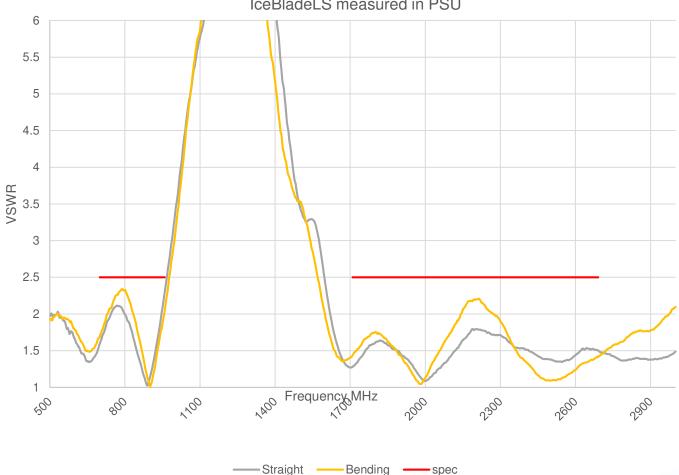
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PART NUMBER: ICEBLADELS

OTHER SPECIFICATIONS

VSWR

VSWR vs Frequency measured in free space IceBladeLS measured in PSU







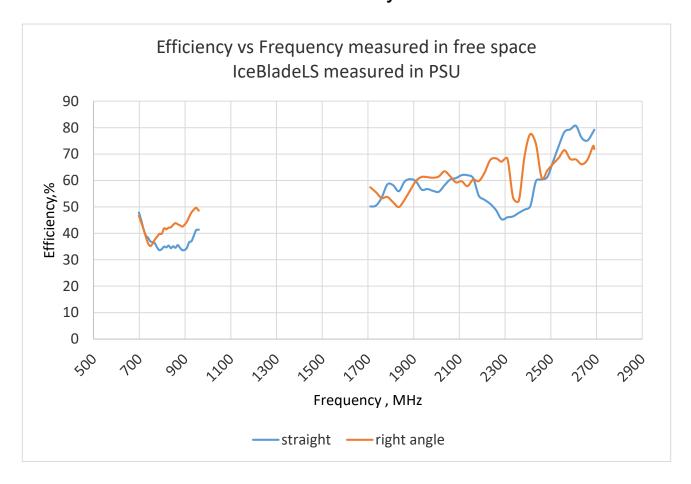


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CHARTS

Efficiency





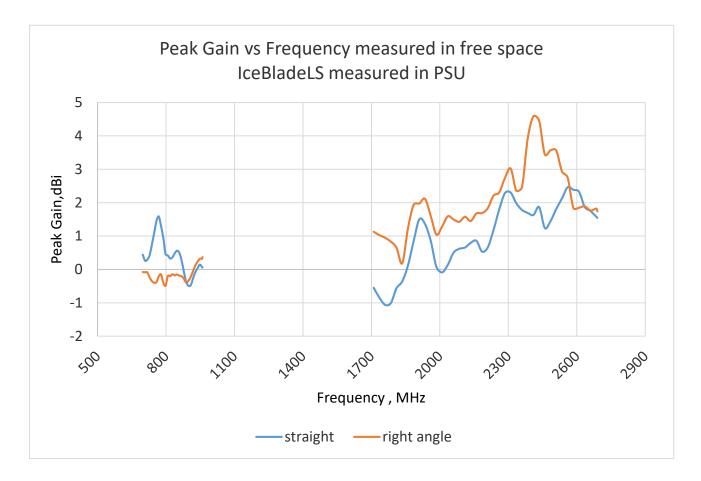


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CHARTS

Peak Gain

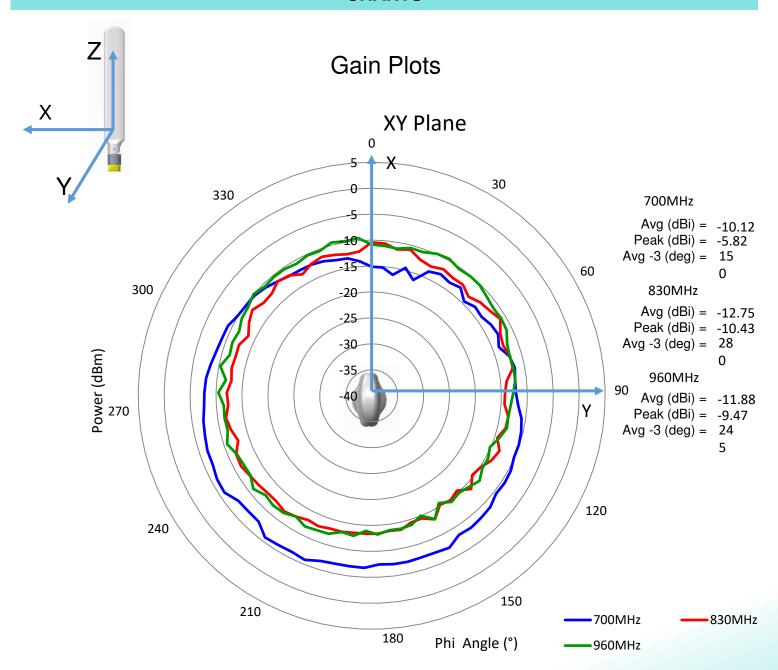






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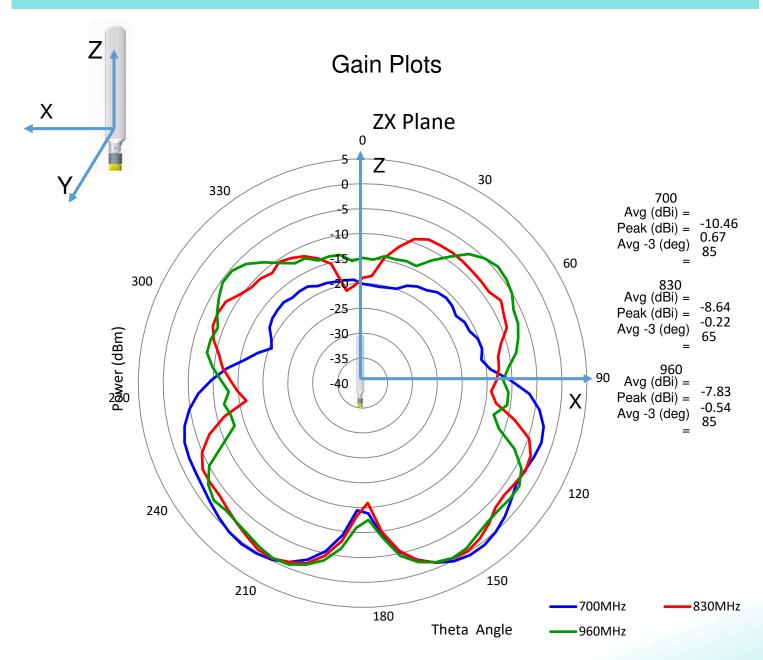






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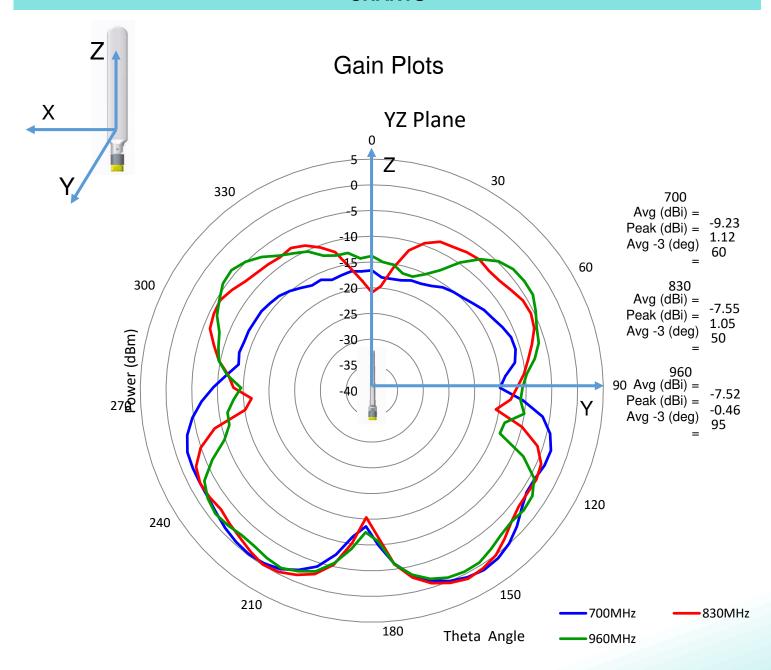






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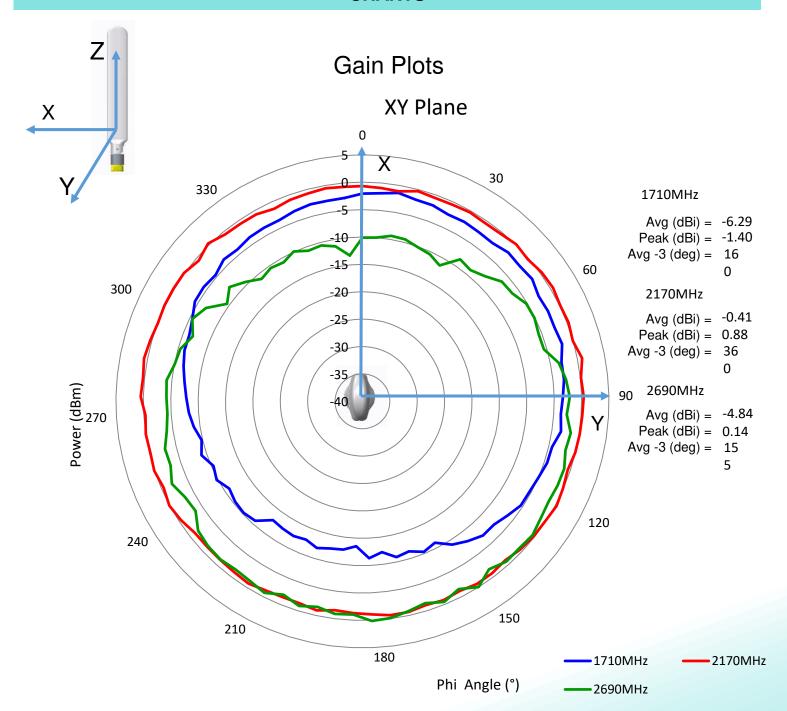






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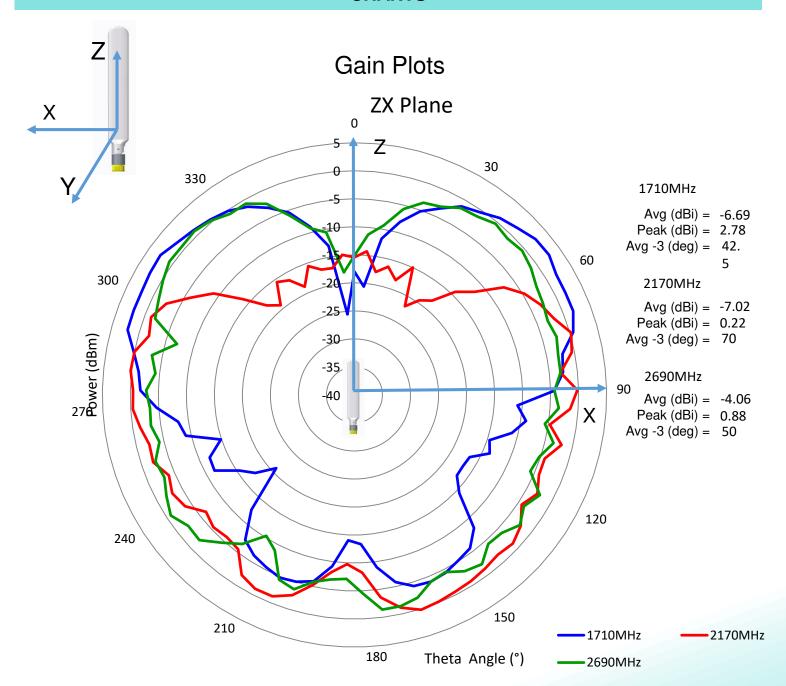






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CHARTS Gain Plots YZ Plane 30 330 1710MHz Avg (dBi) = -6.22Peak (dBi) = 2.40 Avg - 3 (deg) = 4560 300 2170MHz Avg (dBi) = -7.00-25 Peak (dBi) = 1.19 -30 Power (dBm) Avg - 3 (deg) = 50-35 2690MHz 40 Avg (dBi) = -5.15270 Peak (dBi) = 1.24 Avg - 3 (deg) = 30120 240

2170MHz

210

180

150

Theta Angle (°)

1710MHz

2690MHz



Series: ICEBLADE

Issue:1747

TECHNICAL DATA SHEET

Description: LTE698-960/1710-2690MHzSMA

PART NUMBER: ICEBLADELS

PACKAGING

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