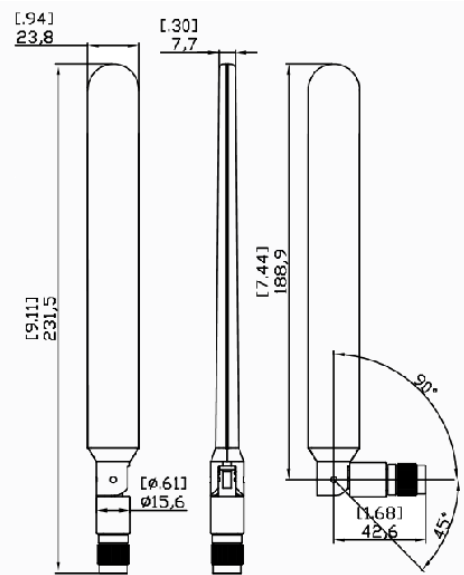
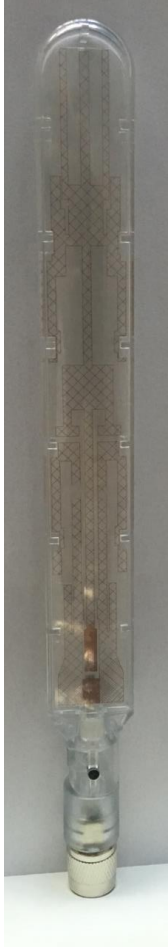


Description: LTE698-960/1710-2690MHzTNC

Series: ICEBLADE

PART NUMBER: ICEBLADELT



Features:

- Multi Band Swivel Mount Dipole
- Transparent radomes
- Length 213.5mm (straight)
- ICEBLADELT: TNC Male Connector

Applications:

- 4G LTE Radios
- Access Points,
- Gateways
- Routers
- Small Cell Base Stations
- Femto Cell

All dimensions are in mm / inches

Issue:1631P

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

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3611 NE 112th Ave
Vancouver, WA 98682
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

Preliminary



Description: LTE698-960/1710-2690MHzTNC

Series: ICEBLADE

PART NUMBER: ICEBLADELT

ELECTRICAL SPECIFICATIONS

| | | |
|----------------------------------|-------------------|--------------|
| Frequency | 698-960&1710-2690 | MHz |
| Nominal Impedance | 50 | Ω |
| VSWR | 2.5:1 | |
| Average Efficiency(698-960MHz) | 40 | % |
| Average Efficiency(1710-2690MHz) | 57 | % |
| Peak Gain(698-960MHz) | 1.5 | dBi +/- 1 dB |
| Peak Gain(1710-2690MHz) | 2.5 | dBi +/- 1 dB |
| Polarization: | linear | |
| Power withstanding | 3 | W |
| Connector type | TNC | |

Issue:1631P

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Preliminary



Description: LTE698-960/1710-2690MHzTNC

Series: ICEBLADE

PART NUMBER: ICEBLADELT

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 |

Preliminary

Issue:1631P

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Description: LTE698-960/1710-2690MHzTNC

Series: ICEBLADE

PART NUMBER: ICEBLADELT

MECHANICAL DRAWING

| | A | B | C | D | E | F | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------------------|---|---|------------------|--|-----------------|--------------|--|------|------|--------------|--------------------|------|------|-----------|-------------------|----|----|--------------|------------------------------|-----------------|--------|--------------|----------------|-----|--------|--------------|------------------|------|------|--------------|----------------------|---|---|---------------|-------------------------|--|--|--|--|-----------------|------------|--------------|-----|------------------|--|--|--|--|-------------|--|--|--|--|-------------|--|--|--|--|------------|--|--|--|--|------------|--|--|--|--|--|
| MOI | Description | Reliability Test spec according to WIHS7.5.33 (Reliability Test Working Instruction) Default test standard is Test Standard A if no definition | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">ROHS</th> <th>RE</th> <th>PPM<</th> <th>PPM<</th> <th>PPM<</th> <th>PPM<</th> <th>PPM<</th> <th>PPM<</th> <th>PPM<</th> </tr> <tr> <td>ITEM</td> <td>Col</td> <td>Hg</td> <td>Pb</td> <td>Cr</td> <td>Br</td> <td>PBB</td> <td>PBDE</td> <td>OTHERS</td> <td></td> </tr> <tr> <td></td> <td>100</td> <td>1000</td> <td>1000</td> <td>1000</td> <td>1000</td> <td>1000</td> <td>1000</td> <td></td> <td></td> </tr> </table> | ROHS | | RE | PPM< | PPM< | PPM< | PPM< | PPM< | PPM< | PPM< | ITEM | Col | Hg | Pb | Cr | Br | PBB | PBDE | OTHERS | | | 100 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | | | [.94] 23,8 | [.30] 7,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROHS | | RE | PPM< | PPM< | PPM< | PPM< | PPM< | PPM< | PPM< | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM | Col | Hg | Pb | Cr | Br | PBB | PBDE | OTHERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 100 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | A release | | | | [9.11] 231,5 | [7.44] 188,9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>NOTES: UNLESS OTHERWISE SPECIFIED</p> <p>1. INTERPRET THIS SPECIFICATION PER PULSE PQ: 7.004.000 AND STANDARDS REFERENCED THEREIN.</p> <p>ELECTRICAL SPECIFICATIONS:</p> <p>1. FREQ: MULTI BAND - 898-960/1710-2690 MHz 2. VSWR: MULTI BAND - 2.5:1 MAX 3. GAIN: 0 MIN-2 MAX dBi 4. POWER WITHSTANDING: 3W</p> <p>ENVIRONMENTAL:</p> <p>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: +30° @ 93% RH MIL-STD 810G Method 507.4 5. DROP TEST: 1 METER, 1 DROP, 1 PER AXIS.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | ITEM QTY. PART NUMBER DESCRIPTION | <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td style="font-size: 8px;">8</td><td style="font-size: 8px;">1</td><td style="font-size: 8px;">043-3905.001</td><td style="font-size: 8px;">ICEBLADE Plate</td></tr> <tr><td style="font-size: 8px;">7</td><td style="font-size: 8px;">1</td><td style="font-size: 8px;">043-5091.001</td><td style="font-size: 8px;">W5090 Rubber White</td></tr> <tr><td style="font-size: 8px;">6</td><td style="font-size: 8px;">2</td><td style="font-size: 8px;">0020.0015</td><td style="font-size: 8px;">PIVOT PIN</td></tr> <tr><td style="font-size: 8px;">5</td><td style="font-size: 8px;">1</td><td style="font-size: 8px;">155-2252.001</td><td style="font-size: 8px;">ICE Blade TNC Cable Sub Assy</td></tr> <tr><td style="font-size: 8px;">4</td><td style="font-size: 8px;">1</td><td style="font-size: 8px;">043-3757.001</td><td style="font-size: 8px;">ICE Blade Base</td></tr> <tr><td style="font-size: 8px;">3</td><td style="font-size: 8px;">1</td><td style="font-size: 8px;">025-6123.001</td><td style="font-size: 8px;">ICE Blade WT FPC</td></tr> <tr><td style="font-size: 8px;">2</td><td style="font-size: 8px;">1</td><td style="font-size: 8px;">043-3756.001</td><td style="font-size: 8px;">ICE Blade Radome Top</td></tr> <tr><td style="font-size: 8px;">1</td><td style="font-size: 8px;">1</td><td style="font-size: 8px;">043-3755.001</td><td style="font-size: 8px;">ICE Blade Radome Swivel</td></tr> </table> | | | 8 | 1 | 043-3905.001 | ICEBLADE Plate | 7 | 1 | 043-5091.001 | W5090 Rubber White | 6 | 2 | 0020.0015 | PIVOT PIN | 5 | 1 | 155-2252.001 | ICE Blade TNC Cable Sub Assy | 4 | 1 | 043-3757.001 | ICE Blade Base | 3 | 1 | 025-6123.001 | ICE Blade WT FPC | 2 | 1 | 043-3756.001 | ICE Blade Radome Top | 1 | 1 | 043-3755.001 | ICE Blade Radome Swivel | <p>FUNCTIONAL CHARACTERISTICS KEY (Gpk requirement - Gpk)</p> <p>⚙ Process Capability Studies required (total pcs)</p> <p>📊 Dipping Statistical Process Control Required (total pcs)</p> <p>⚠ Critical dimension need to be measured, no Cpk requirement (total pcs)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 1 | 043-3905.001 | ICEBLADE Plate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 1 | 043-5091.001 | W5090 Rubber White | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 | 0020.0015 | PIVOT PIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1 | 155-2252.001 | ICE Blade TNC Cable Sub Assy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 1 | 043-3757.001 | ICE Blade Base | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1 | 025-6123.001 | ICE Blade WT FPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | 043-3756.001 | ICE Blade Radome Top | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 043-3755.001 | ICE Blade Radome Swivel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SHEET NUMBER | 1/1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL TOLERANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CUSTOMER NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DESIGN | Jeanie Fei | 201524 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHECKED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPROVED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DOCUMENT NUMBER | ICEBLADELT | PART VERSION | V01 | DOCUMENT VERSION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | 01 20151231 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Jeanie Fei | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Jeanie Fei | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Issue:1631P

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Preliminary



Description: LTE698-960/1710-2690MHzTNC

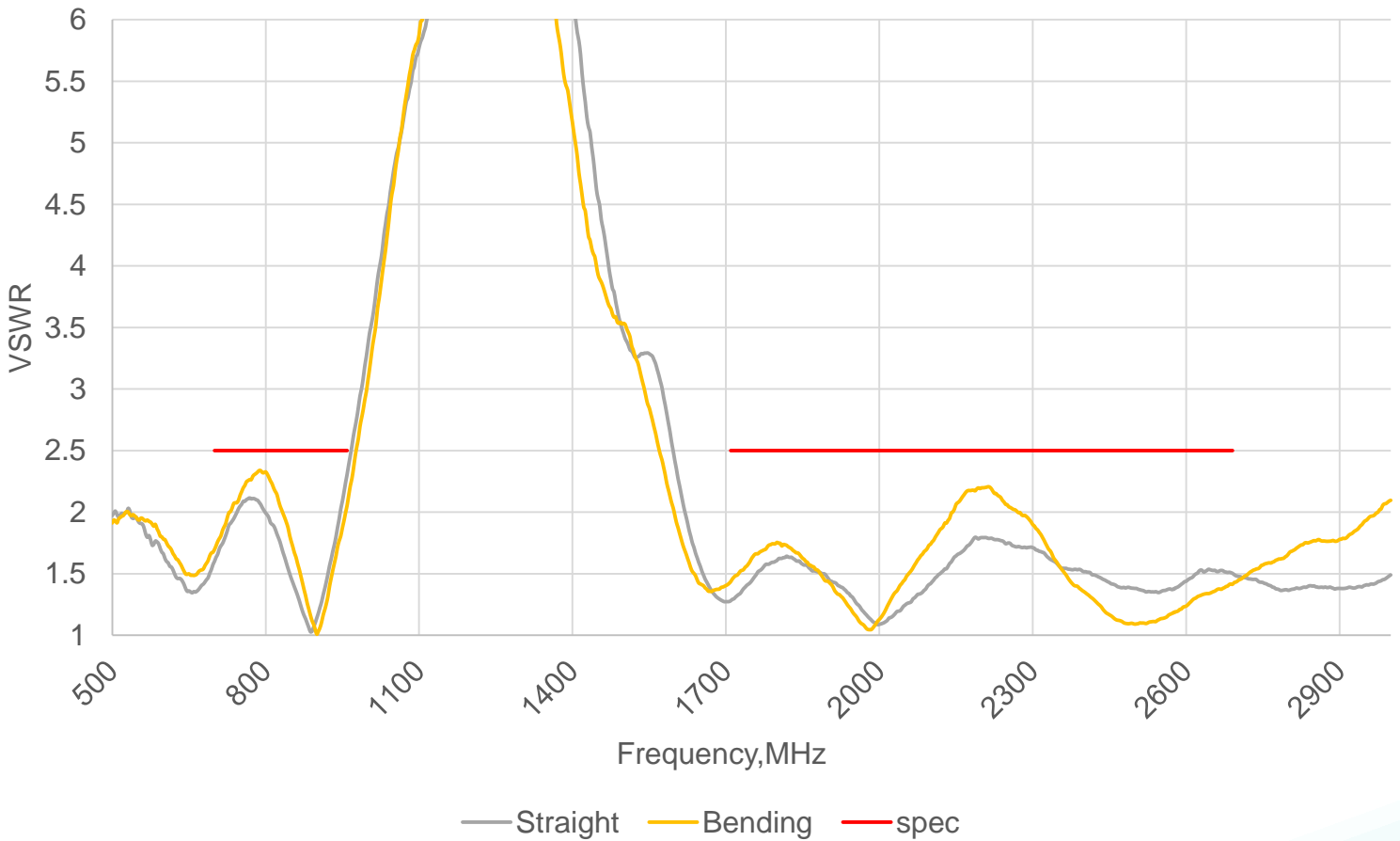
Series: ICEBLADE

PART NUMBER: ICEBLADELT

OTHER SPECIFICATIONS

VSWR

VSWR vs Frequency
IceBladeLT measured in PSU



Preliminary

Issue:1631P

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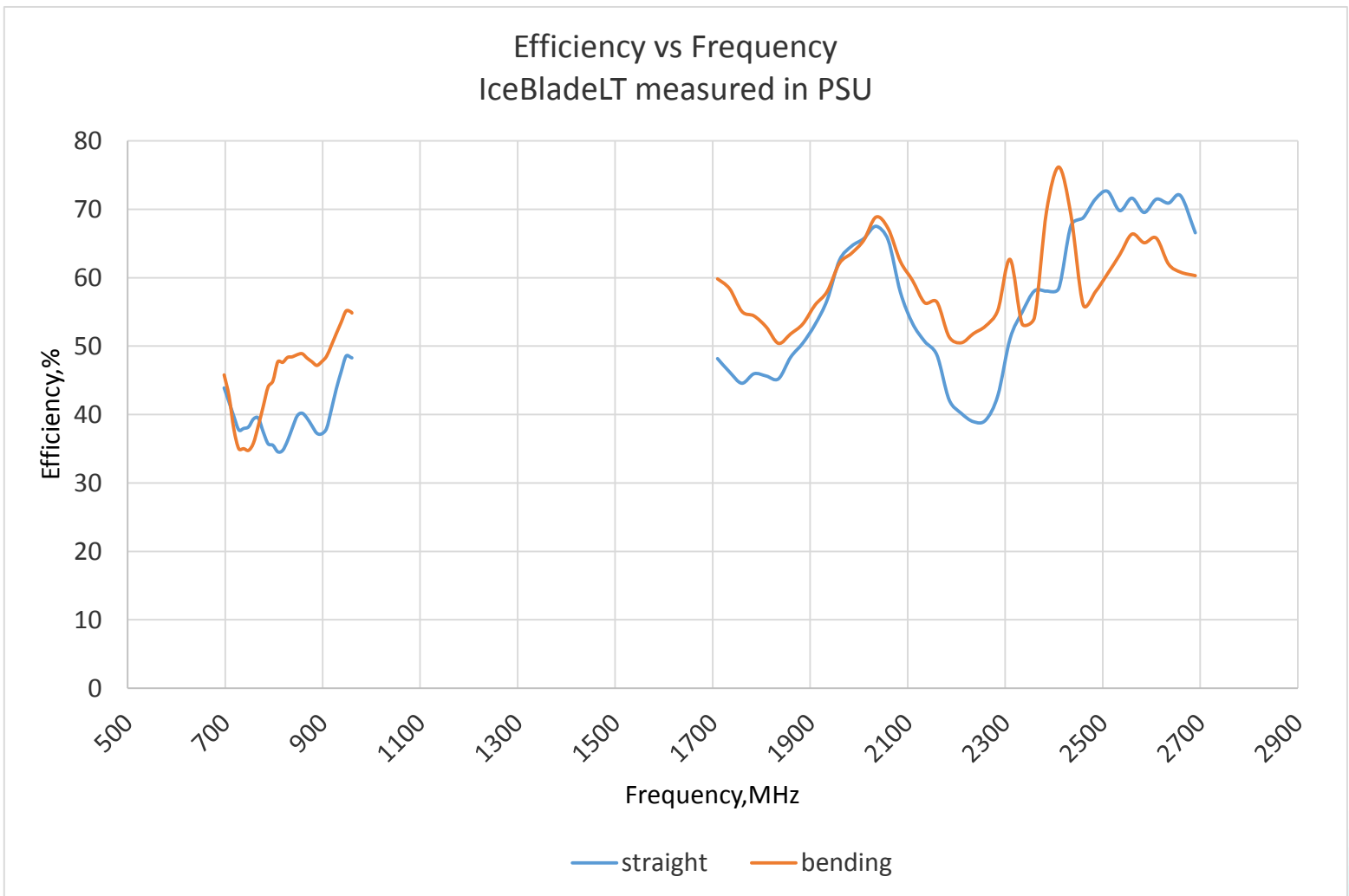
Description: LTE698-960/1710-2690MHzTNC

Series: ICEBLADE

PART NUMBER: ICEBLADELT

OTHER SPECIFICATIONS

Efficiency



Preliminary

Issue:1631P

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Description: LTE698-960/1710-2690MHzTNC

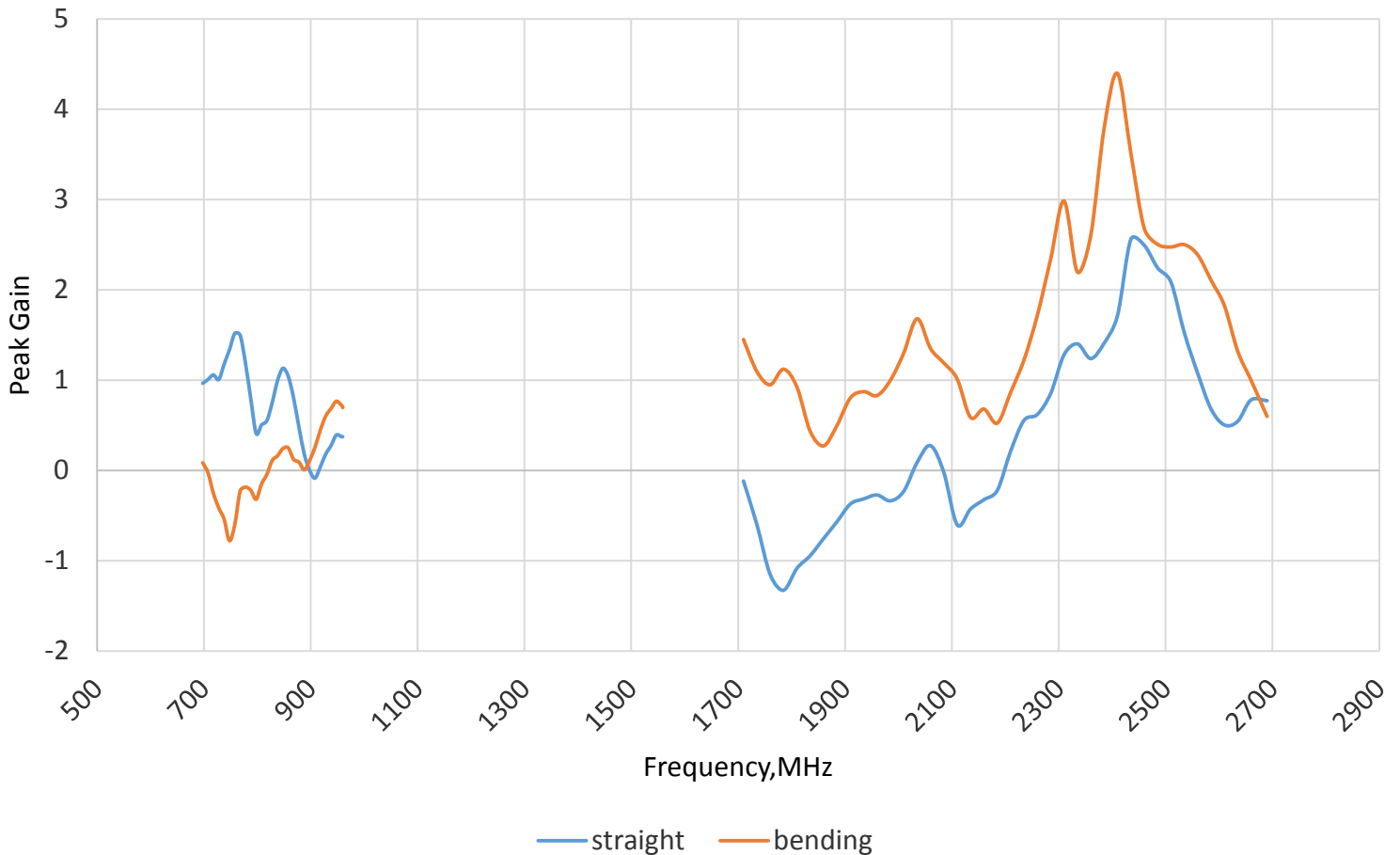
Series: ICEBLADE

PART NUMBER: ICEBLADELT

OTHER SPECIFICATIONS

Peak Gain

Peak Gain vs Frequency
IceBladeLT measured in PSU



Preliminary

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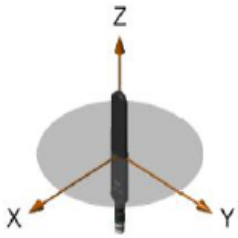


Description: LTE698-960/1710-2690MHzTNC

Series: ICEBLADE

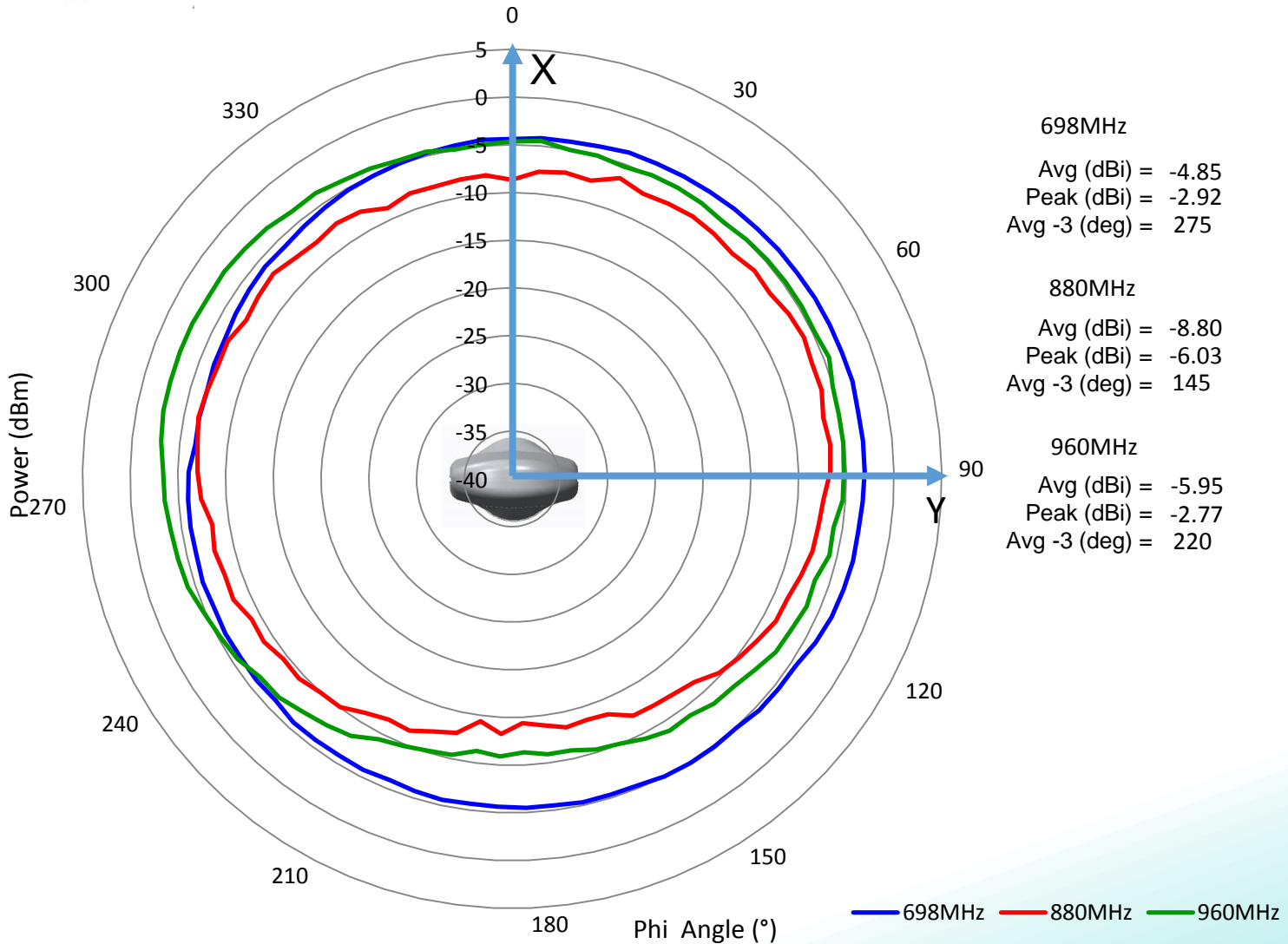
PART NUMBER: ICEBLADELT

OTHER SPECIFICATIONS



Gain Plots

XY Plane



Preliminary

Issue:1631P

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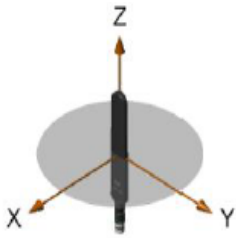


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Series: ICEBLADE

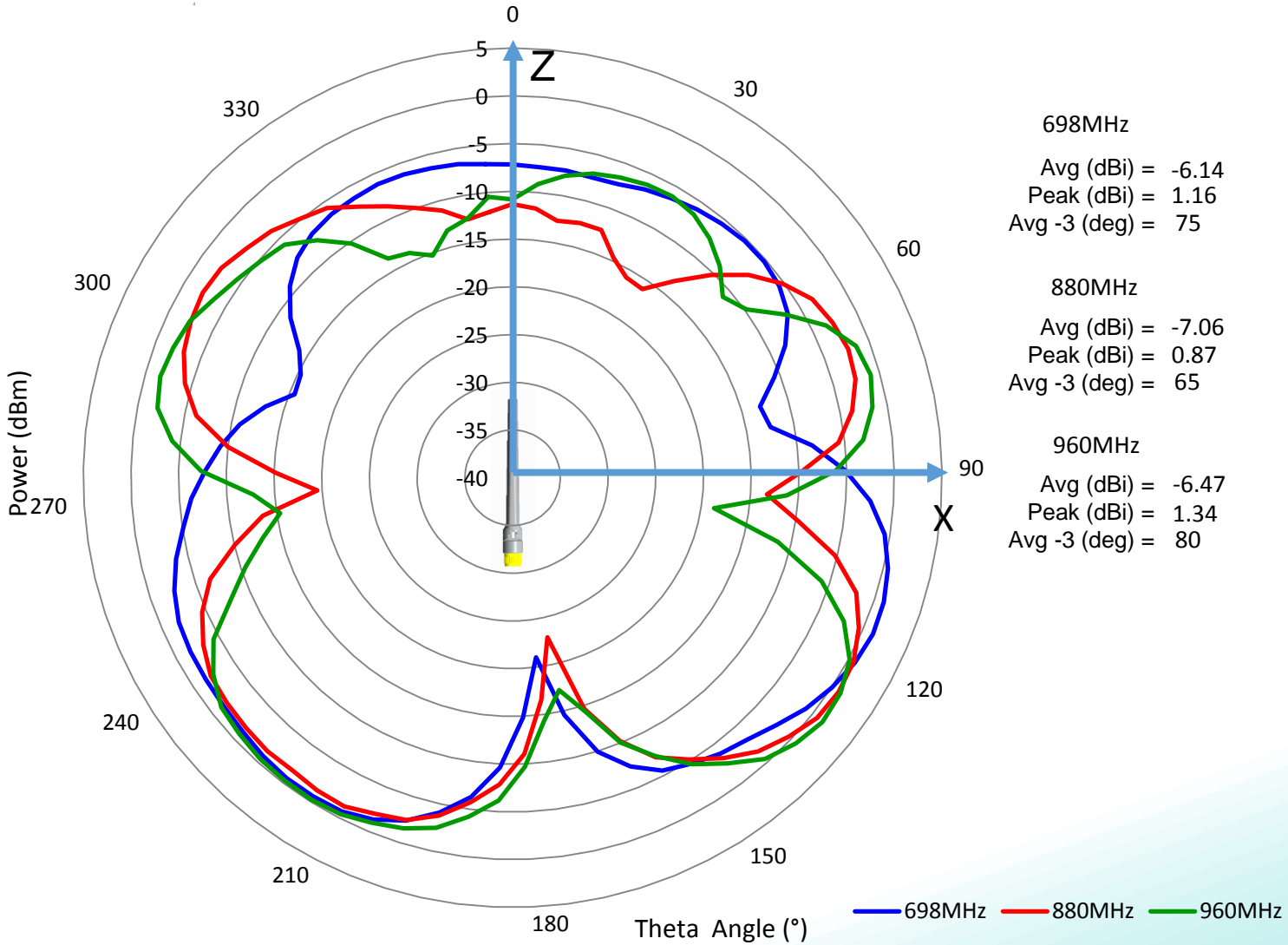
PART NUMBER: ICEBLADELT

OTHER SPECIFICATIONS



Gain Plots

ZX Plane



Preliminary

Issue:1631P

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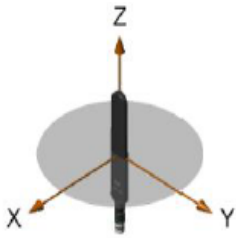


Description: LTE698-960/1710-2690MHzTNC

Series: ICEBLADE

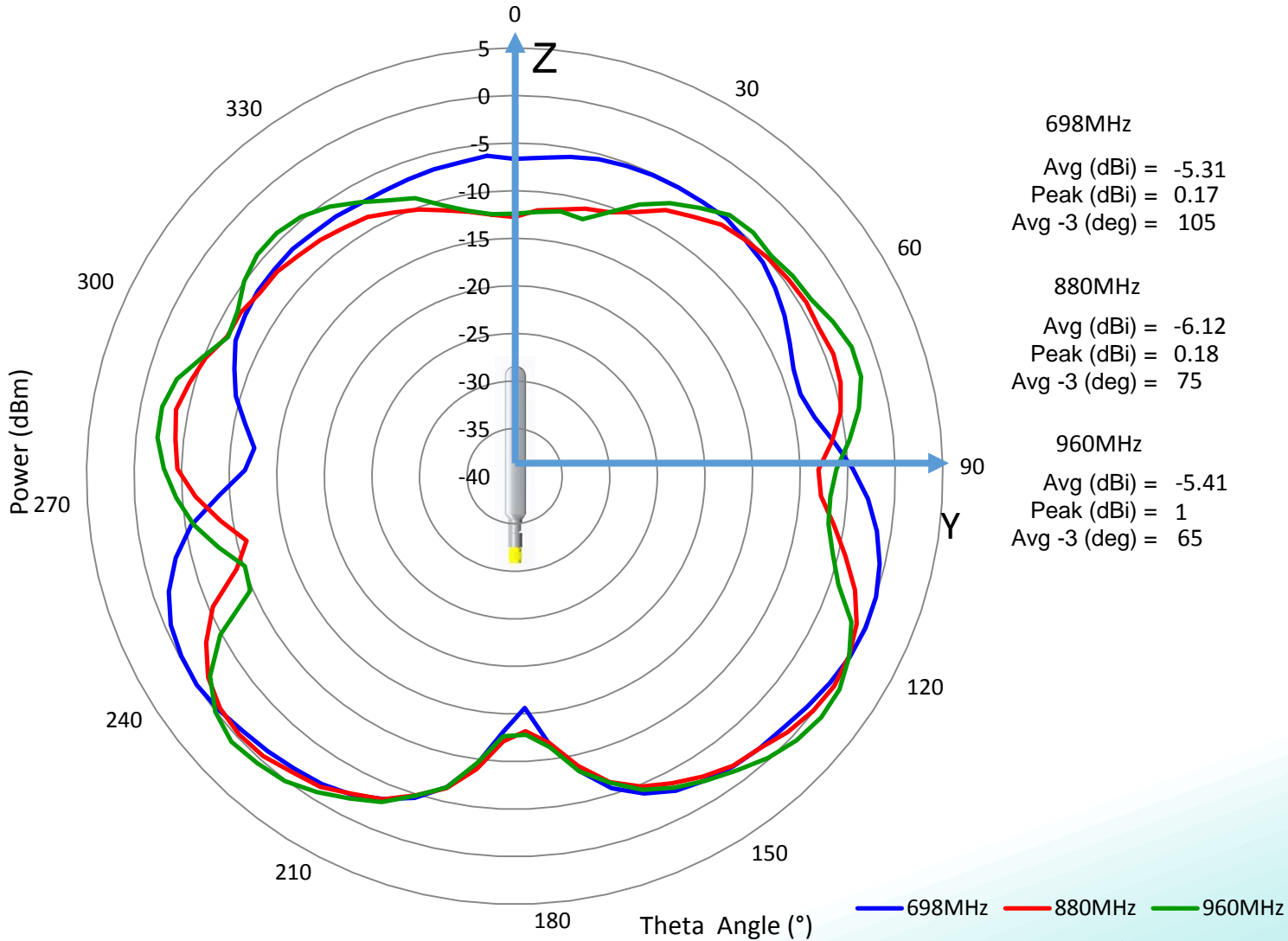
PART NUMBER: ICEBLADELT

OTHER SPECIFICATIONS



Gain Plots

YZ Plane



Preliminary

Issue:1631P

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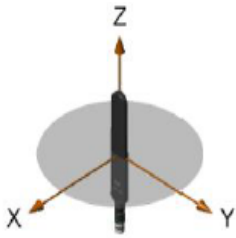


Description: LTE698-960/1710-2690MHzTNC

Series: ICEBLADE

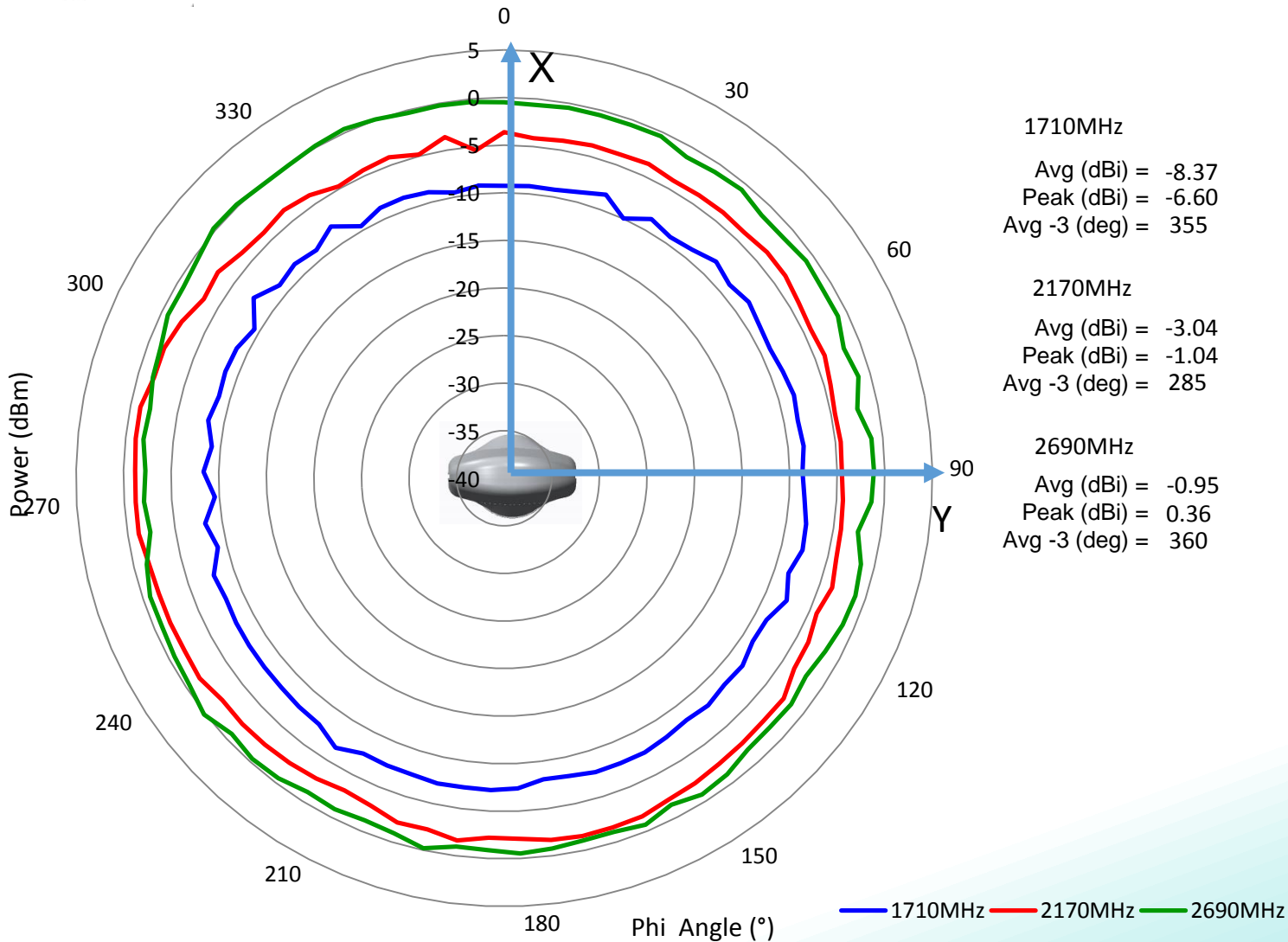
PART NUMBER: ICEBLADELT

OTHER SPECIFICATIONS



Gain Plots

XY Plane



Preliminary

Issue:1631P

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

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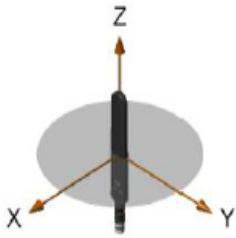


Description: LTE698-960/1710-2690MHzTNC

Series: ICEBLADE

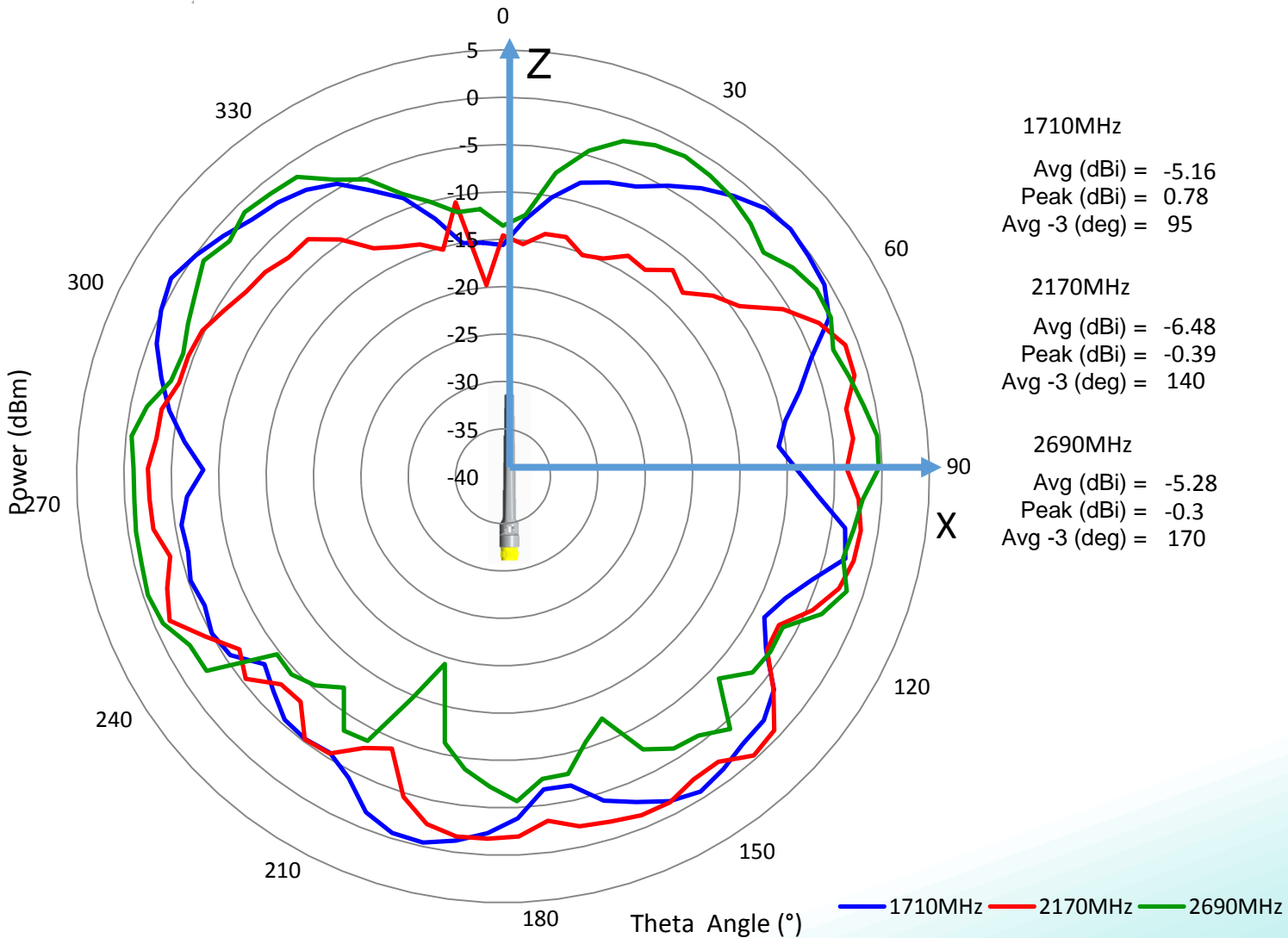
PART NUMBER: ICEBLADELT

OTHER SPECIFICATIONS



Gain Plots

ZX Plane



Preliminary

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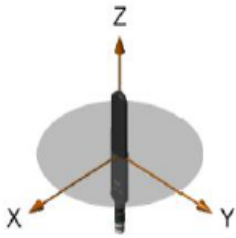


Description: LTE698-960/1710-2690MHzTNC

Series: ICEBLADE

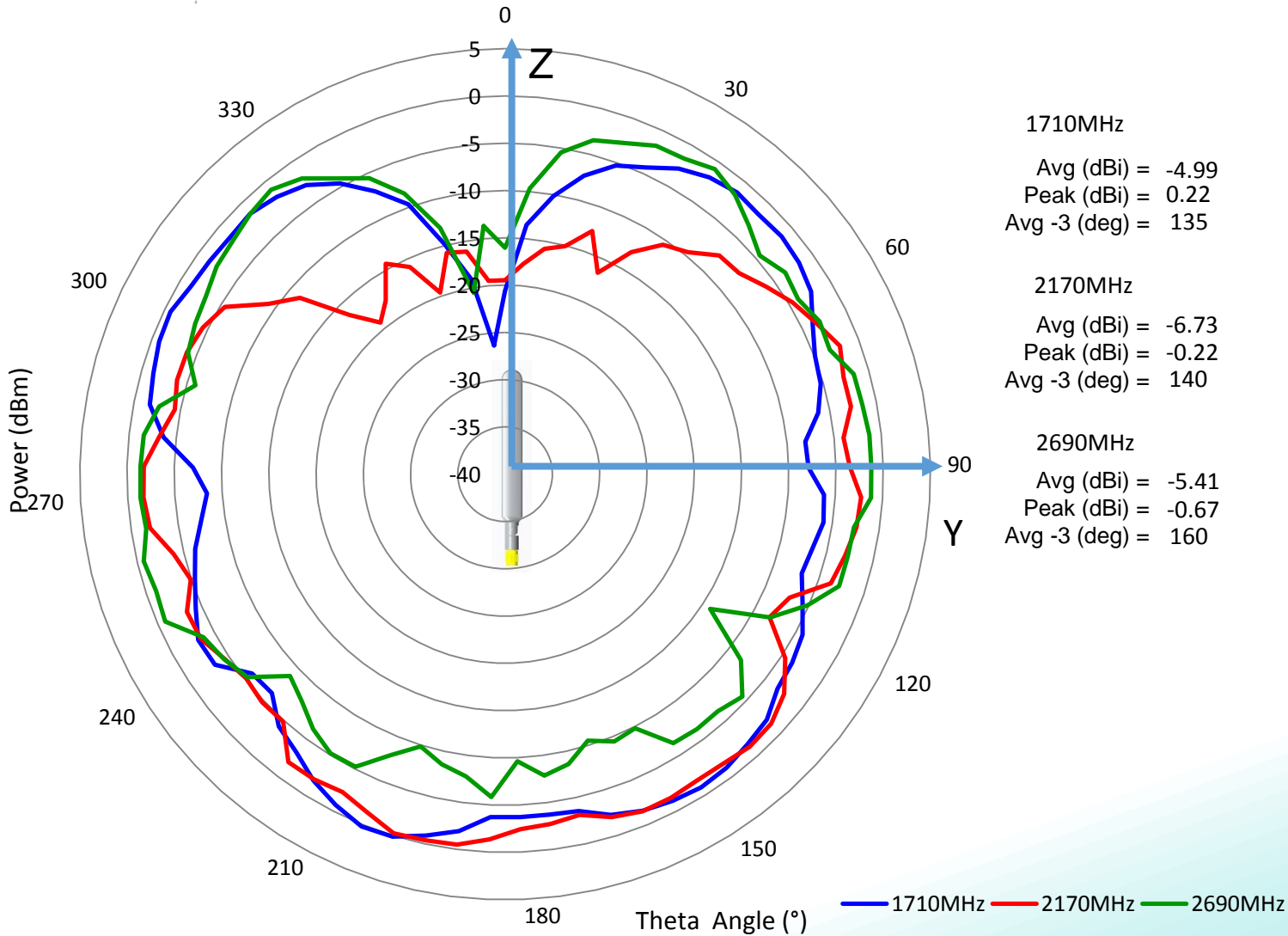
PART NUMBER: ICEBLADELT

OTHER SPECIFICATIONS



Gain Plots

YZ Plane



Preliminary

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Description: LTE698-960/1710-2690MHzTNC

Series: ICEBLADE

PART NUMBER: ICEBLADELT

PACKAGING

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

Issue:1631P

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Preliminary

