

Description: ISM 868/915MHz PCB Antenna with coax feed

Series: Internal Antenna

PART NUMBER: W3312XXXXXX



Features:

- 863-928MHz
- Size 75x15 mm
- Flexible PCB thickness 0.1 mm with adhesive tape
- Mounting with 3M467 adhesive tape on back side
- 100mm 1.13mm OD coax cable with U.FL connector



Applications:

- Devices with ISM 868MHz / 915MHz radios
- M2M, IoT
- Metering, Industry automation
- Instrumentation

All dimensions are in mm / inches

Issue: 1912

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ELECTRINIC SPECIFICATIONS

| | | |
|--------------------|---------|--------------|
| Frequency | 863-928 | MHz |
| Nominal Impedance | 50 | Ω |
| Return loss | -8 | dB |
| Efficiency | 45 | % |
| Peak Gain | 0.8 | dBi +/- 1 dB |
| Polarization: | linear | |
| Power withstanding | 2 | W |

Note: All RF data measured with 1.5mm polycarbonate plate to simulate loading effect of real device housing.

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This document covers all product variants of the following product family

| Antennas | Color | Connector |
|-------------|-------|--|
| W3312B0100 | Green | 1.13mm OD coax cable with U.FL connector |
| W3312BB0100 | BLACK | |

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MECHANICAL SPECIFICATIONS

| | |
|-------------------------------------|------------------------------|
| PCB type | Flexible |
| Radiator size | 15[0.59] x 75[2.95] mm[inch] |
| Adhesive | 3M467 |
| Total thickness (Radiator+adhesive) | 0.1[0.004] mm[inch] |
| Weight | 0.74g |
| Cable type | OD 1.13mm coax |
| Cable length | 100[3.94] mm[inch] |
| Connector | U.FL compatible |

ENVIRONMENTAL SPECIFICATIONS

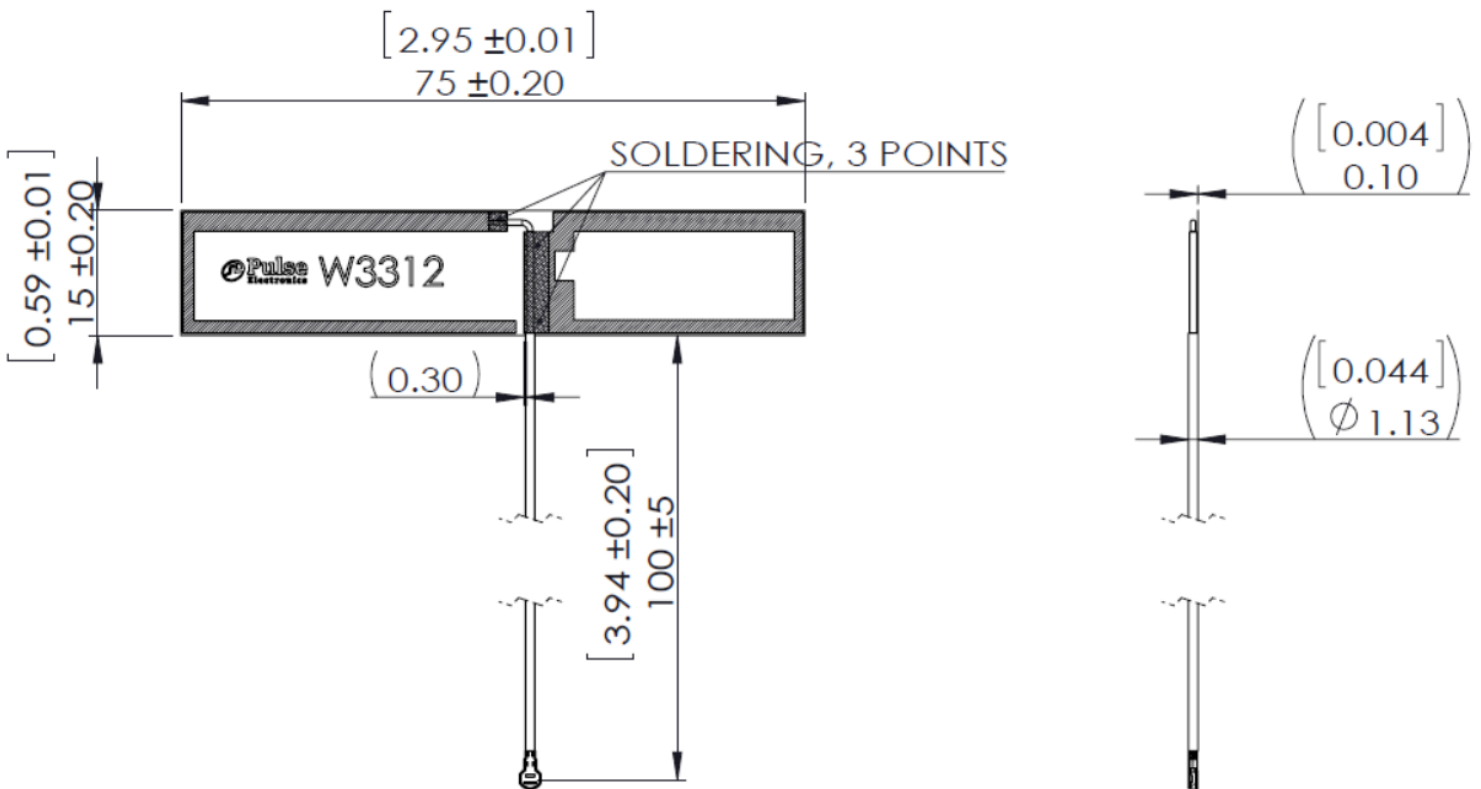
| | |
|-----------------------|-------------|
| Operating temperature | -40/+85 ° C |
|-----------------------|-------------|

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MECHANICAL DRAWING



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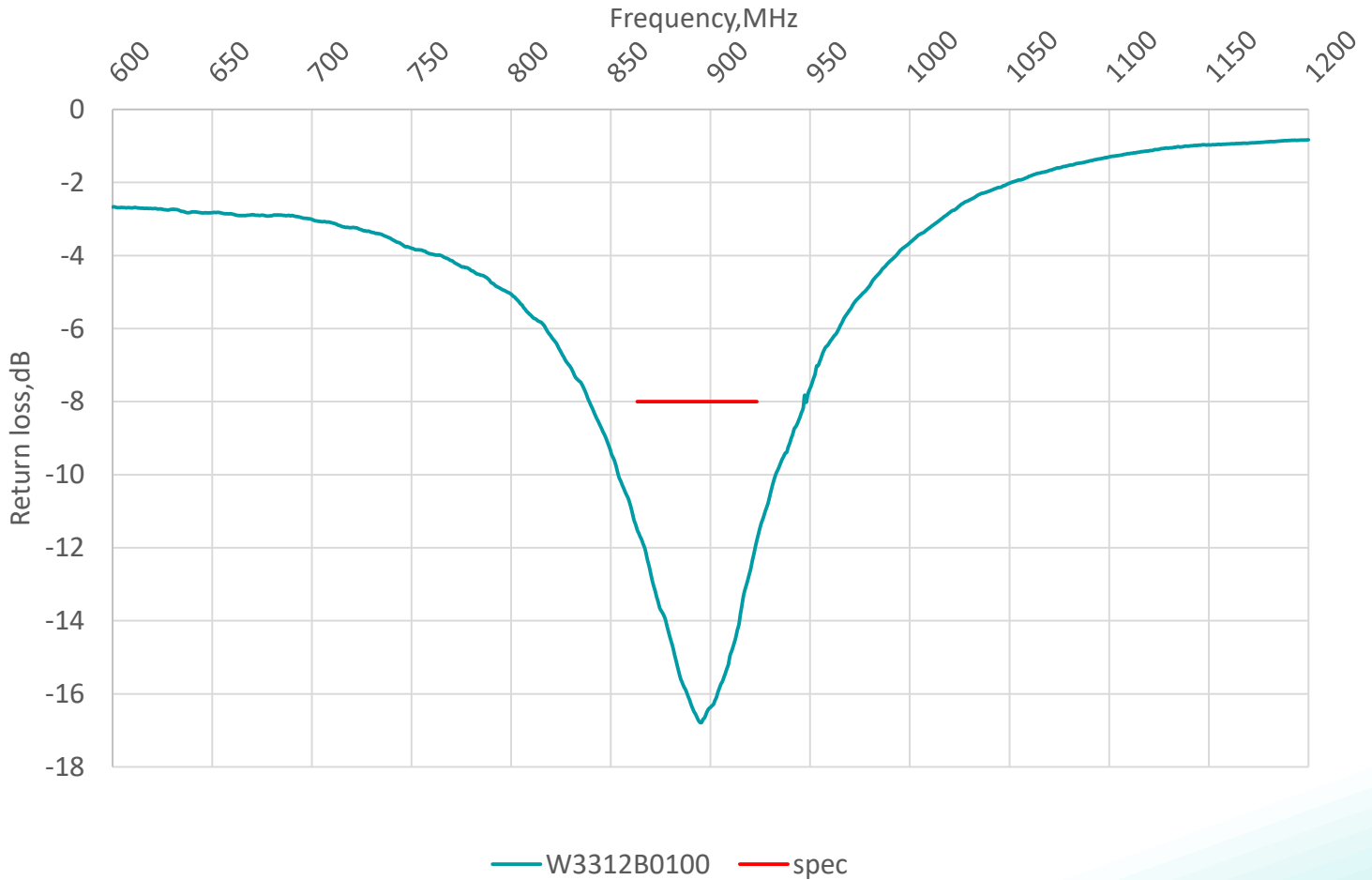
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CHARTS

Return loss

Return loss vs Frequency measured with 1.5mm polycarbonate plate
W3312B0100 measured in PSU , September 18,2016



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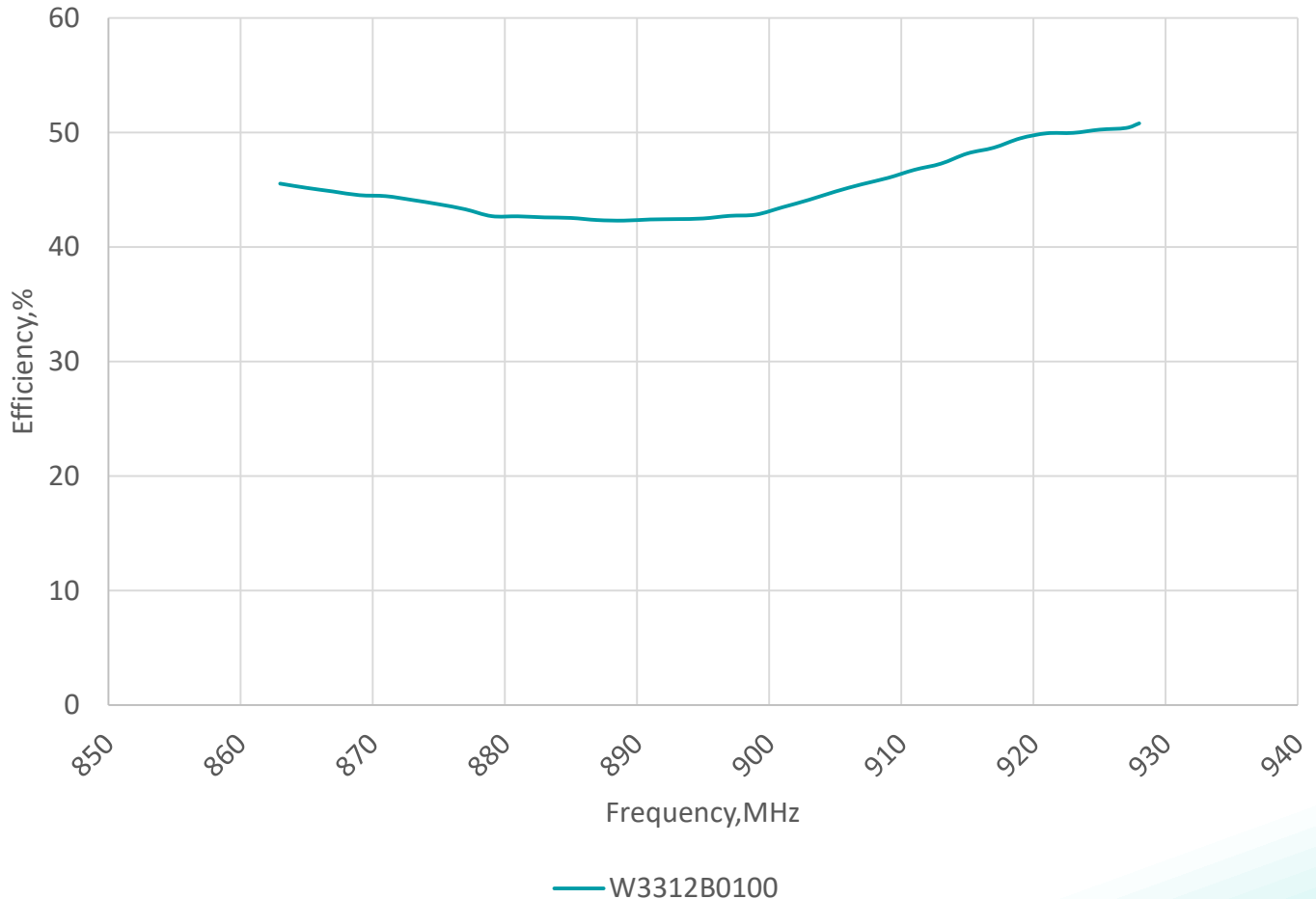
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CHARTS

Efficiency

Efficiency vs Frequency measured with 1.5mm polycarbonate plate
W3312B0100 measured in PSU ,September 18,2016



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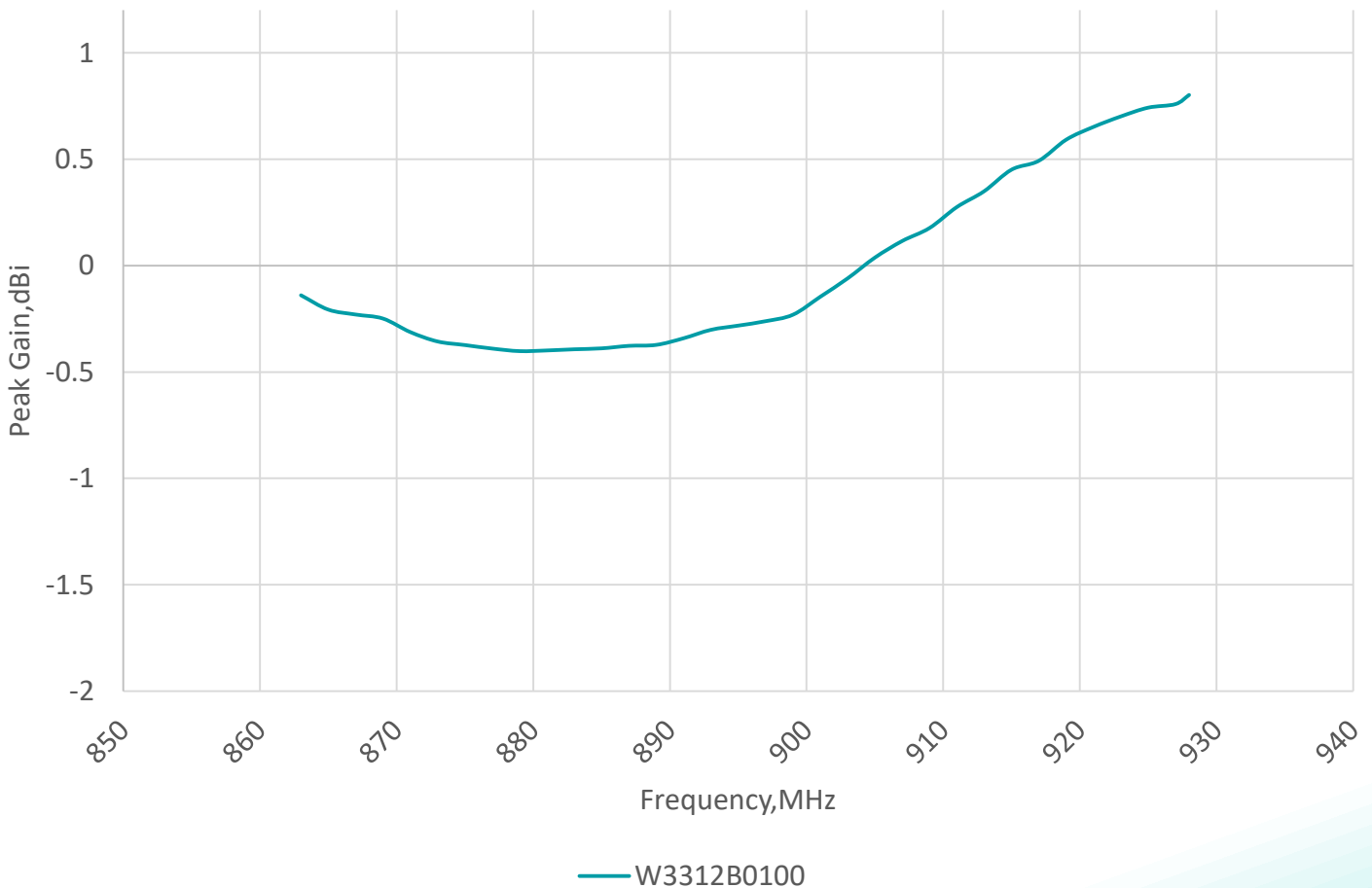
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CHARTS

Peak Gain

Peak Gain vs Frequency measured with 1.5mm polycarbonate plate
 W3312B0100 measured in PSU, September 18, 2016



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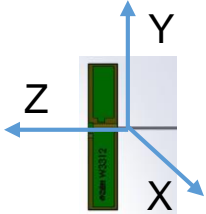


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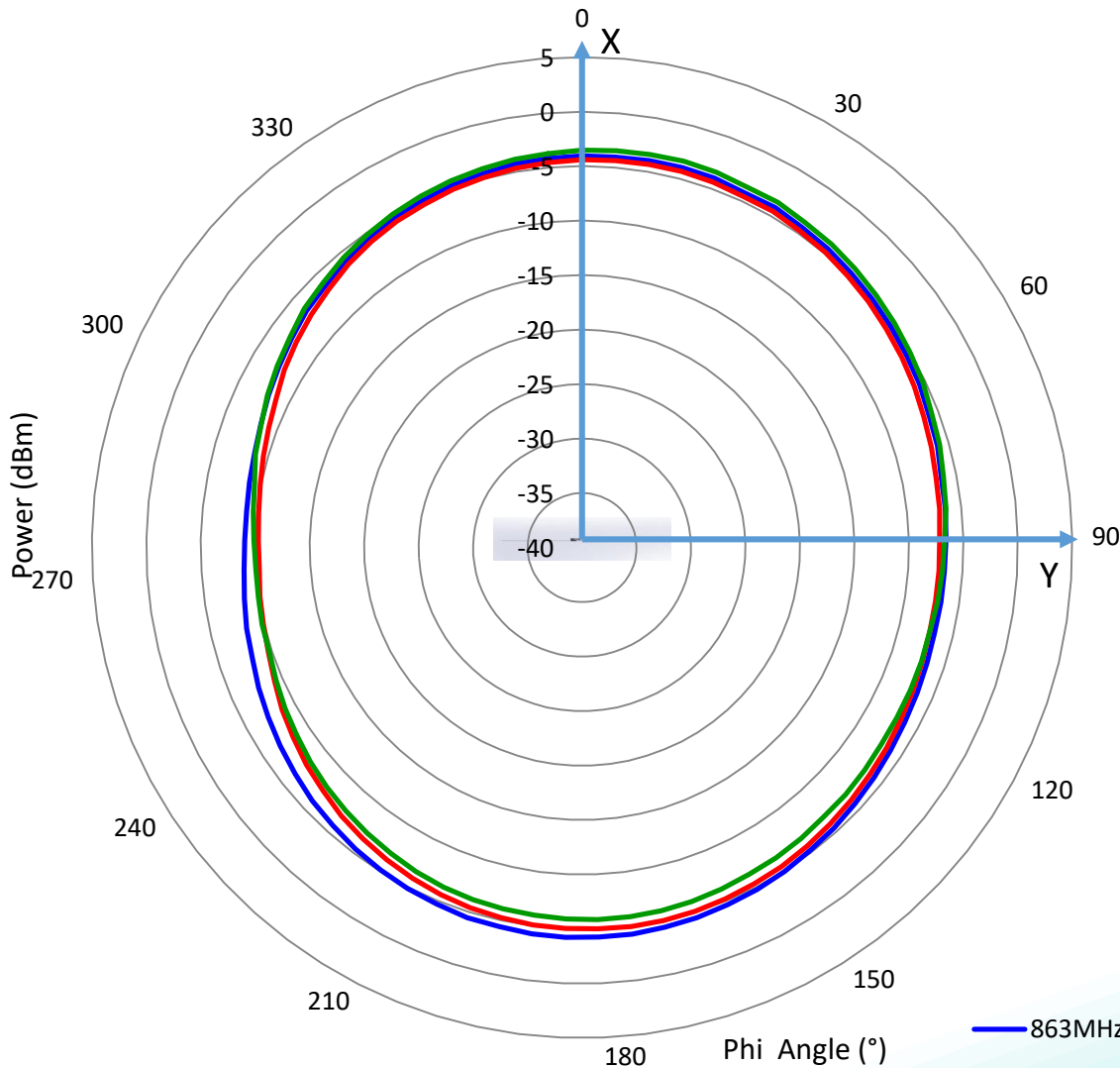
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CHARTS



Gain Plots

XY Plane



| | |
|--------|--------------------|
| 863MHz | Avg (dBi) = -5.79 |
| | Peak (dBi) = -3.95 |
| | Avg -3 (deg) = 290 |
| 895MHz | Avg (dBi) = -6.48 |
| | Peak (dBi) = -4.29 |
| | Avg -3 (deg) = 250 |
| 928MHz | Avg (dBi) = -6.32 |
| | Peak (dBi) = -3.34 |
| | Avg -3 (deg) = 175 |

— 863MHz — 895MHz — 928MHz

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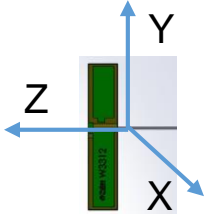


Description: ISM 868/915MHz PCB Antenna with coax feed

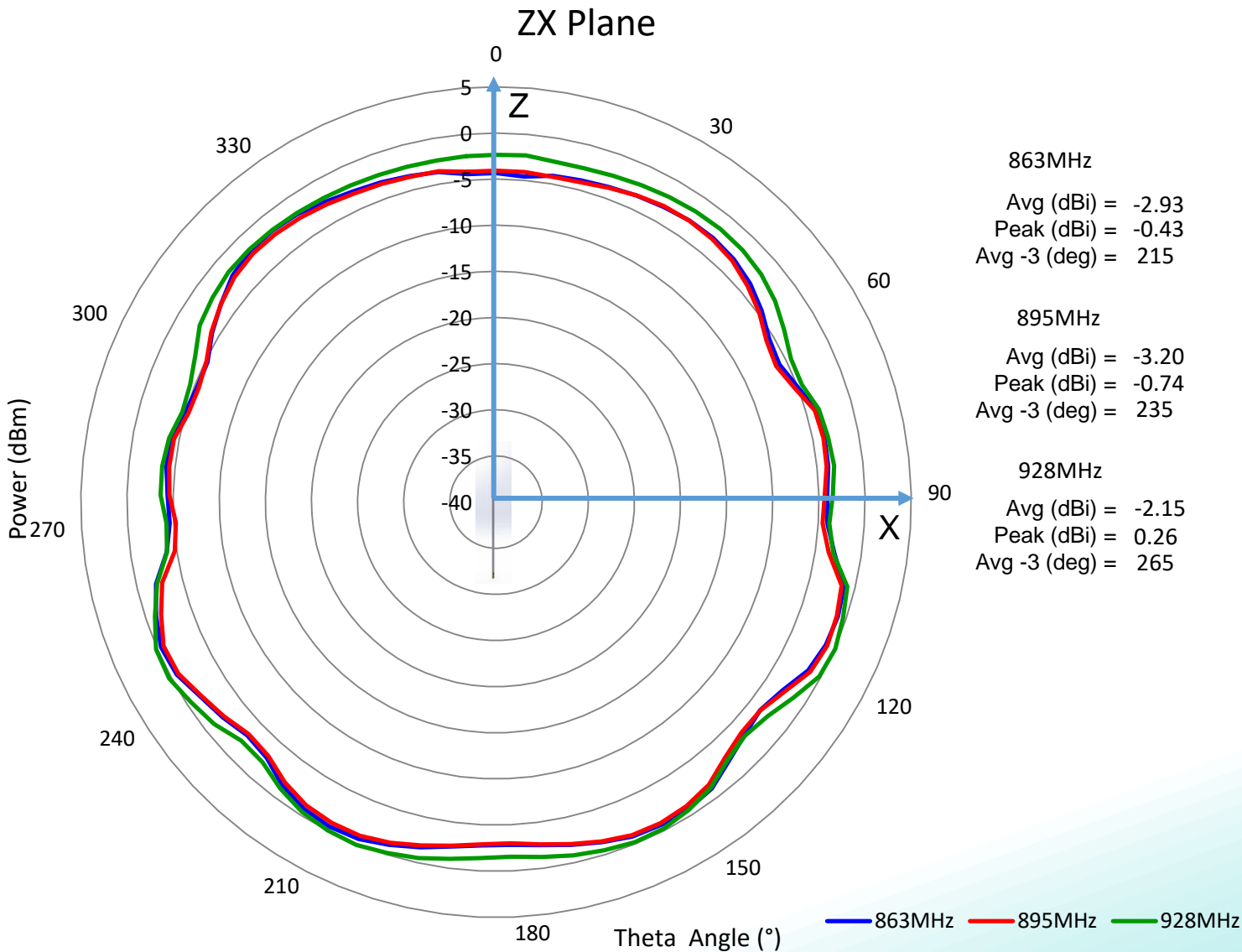
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CHARTS



Gain Plots



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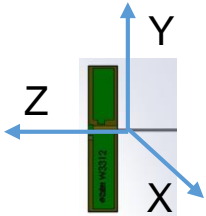


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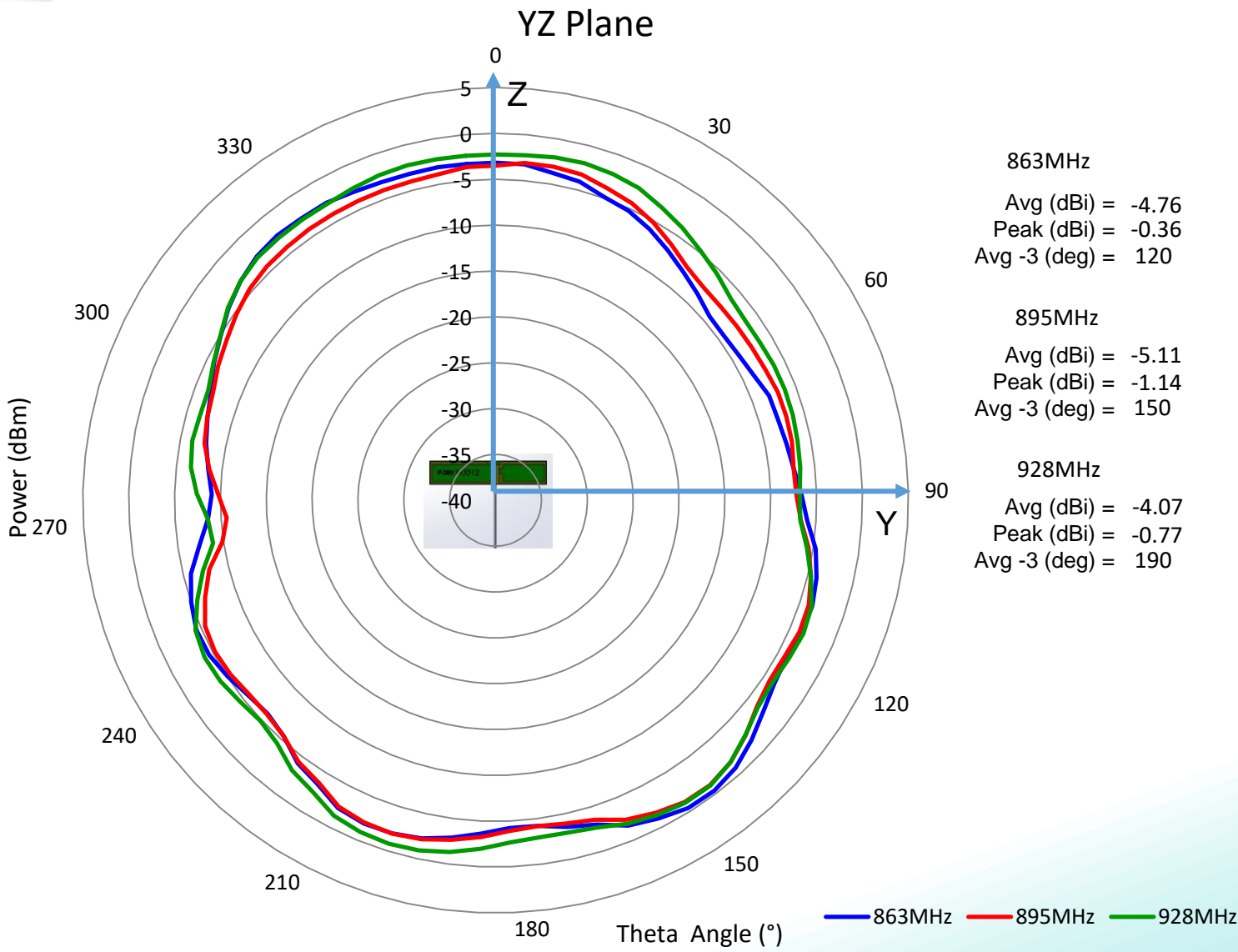
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CHARTS



Gain Plots



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PACKAGING

10PCS/PE bag

10 PE bag/foam bag

15 foam bag/carton box

Total 1500PCS/carton box



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