



Features:

- Frequency 902-928MHz
- Peak Gain +5dBi
- Polarization Linear
- Size 40 x 40 x 6 mm
- Pin feed
- Adhesive tape mount
- RoHS Compliant

Applications:

- ISM 915MHz radios
- IoT Devices
- Smart traffic signs
- Lighting controls
- Monitoring

All dimensions are in mm / inches

Issue: 1850

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

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For more information:

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel: 1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Co, 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



Series: Patch Antenna

Description: 902-928MHz Ceramic Directional
5dBi Antenna

PART NUMBER: W3215

ELECTRICAL SPECIFICATIONS

Antenna Type	Patch Antenna
Frequency	902-928MHz
Nominal Impedance	50 Ω
Peak Return Loss	-20dB
Return Loss (902M~928M)	<-4dB
Peak Gain	4.5 dBi
Gain (902M~928M)	>1.4dBi
Peak Efficiency	70%
Efficiency (902M~928M)	>37%
Polarization	Linear – Vertical
Radiation Pattern – Vertical plane	Omni
Radiation Pattern – Horizontal plane	Directional

MECHANICAL SPECIFICATIONS

Overall size	40 x 40 x 6.0 mm
Weight	37g
Connection type	Pin soldering, adhesive tape

ENVIRONMENTAL SPECIFICATIONS

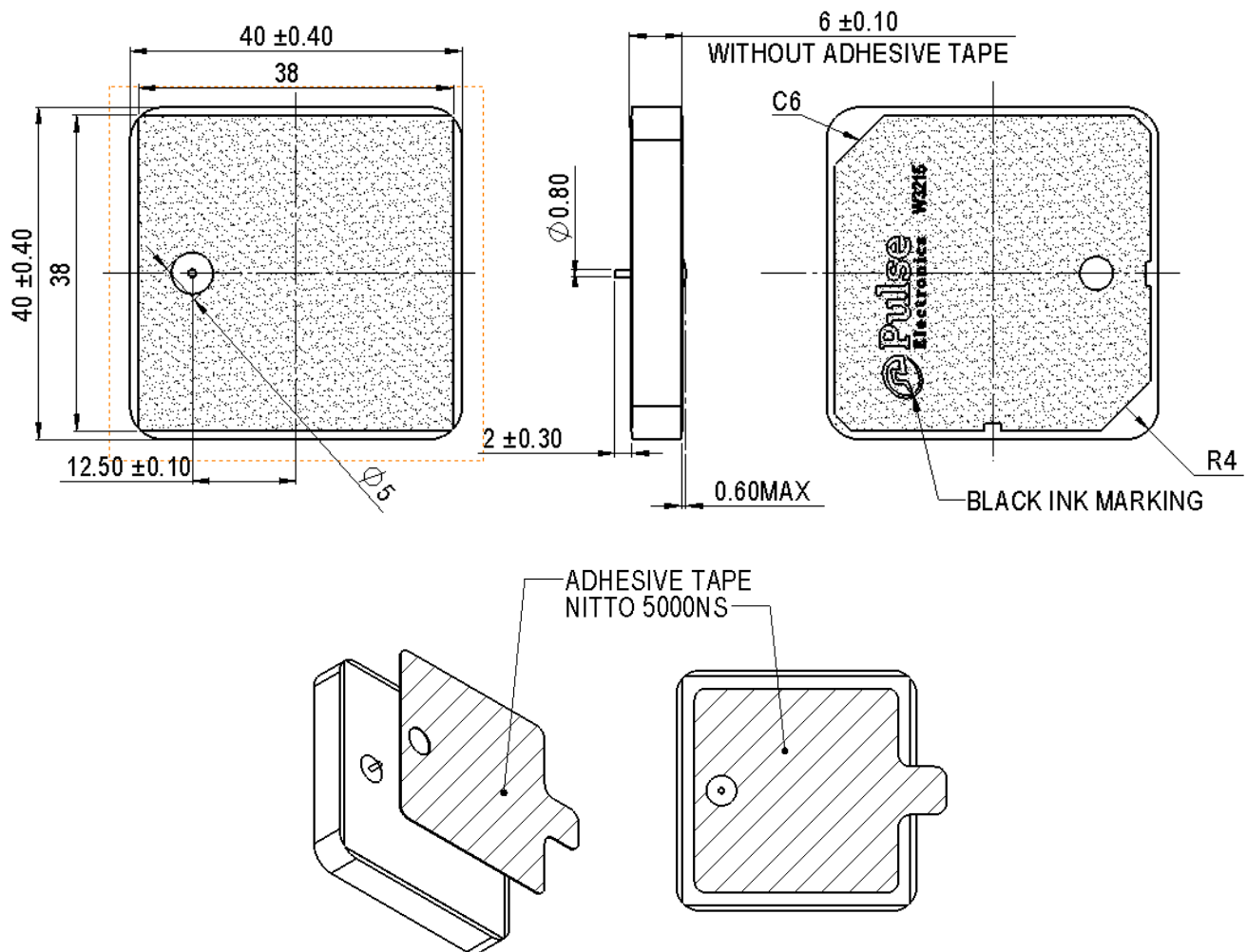
Operating Temperature	-40~+85 °C
Storage Temperature	-40~+85 °C
RoHS Compliant	Yes

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MECHANICAL DRAWING



NO.	Description	Structure and material
1	Antenna Substrate	Dielectric Ceramics
2	Pin	Copper and tinplated
3	Electrode	Ag Plated
4	Ground Base	Ag Plated
5	Adhesive type	NITTO 5000NS

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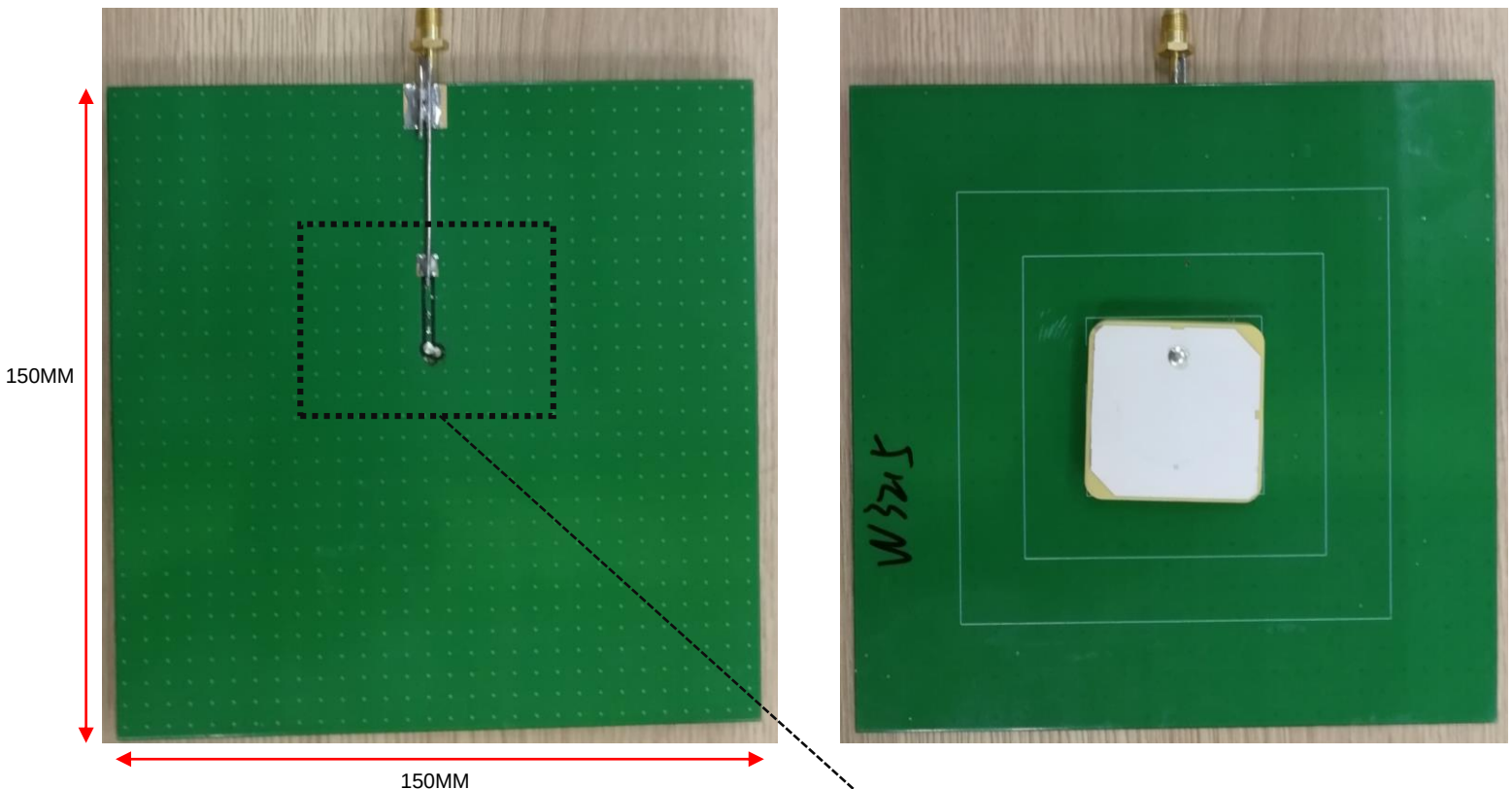
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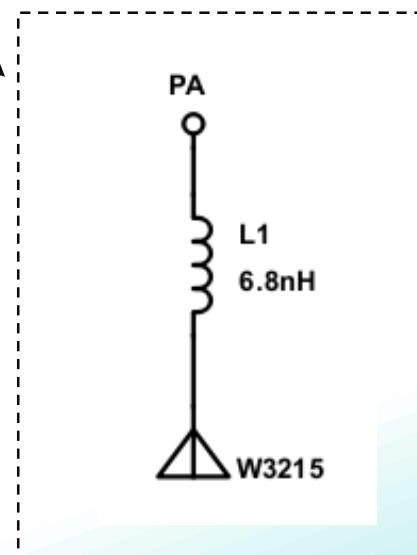
TEST SETUP FOR RF MEASUREMENTS



Test PCB 150 x 150mm

Matching circuit:
6.8nH series inductor

Series inductor can be used to
optimize center frequency on custom
implementation.



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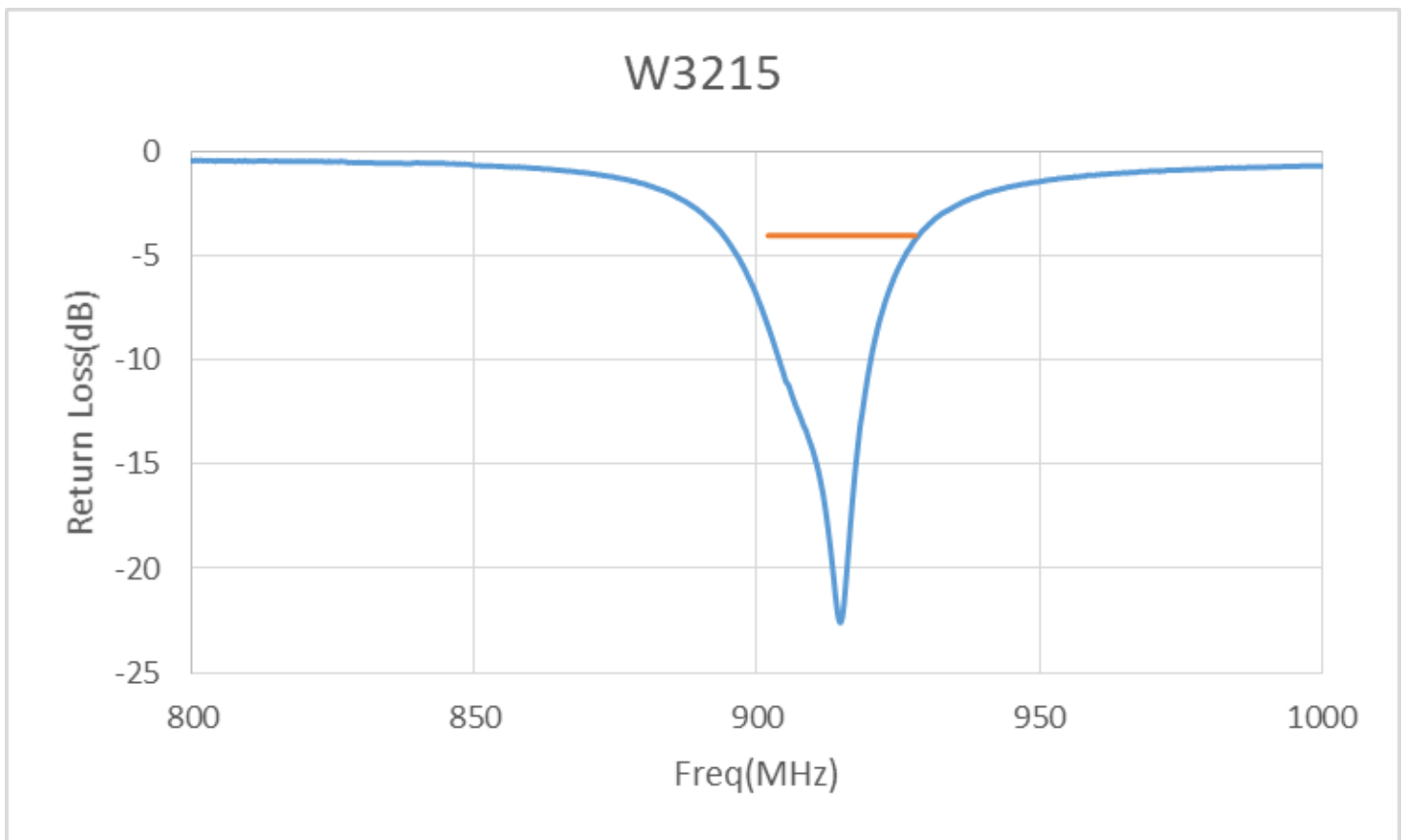
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CHARTS

Return Loss



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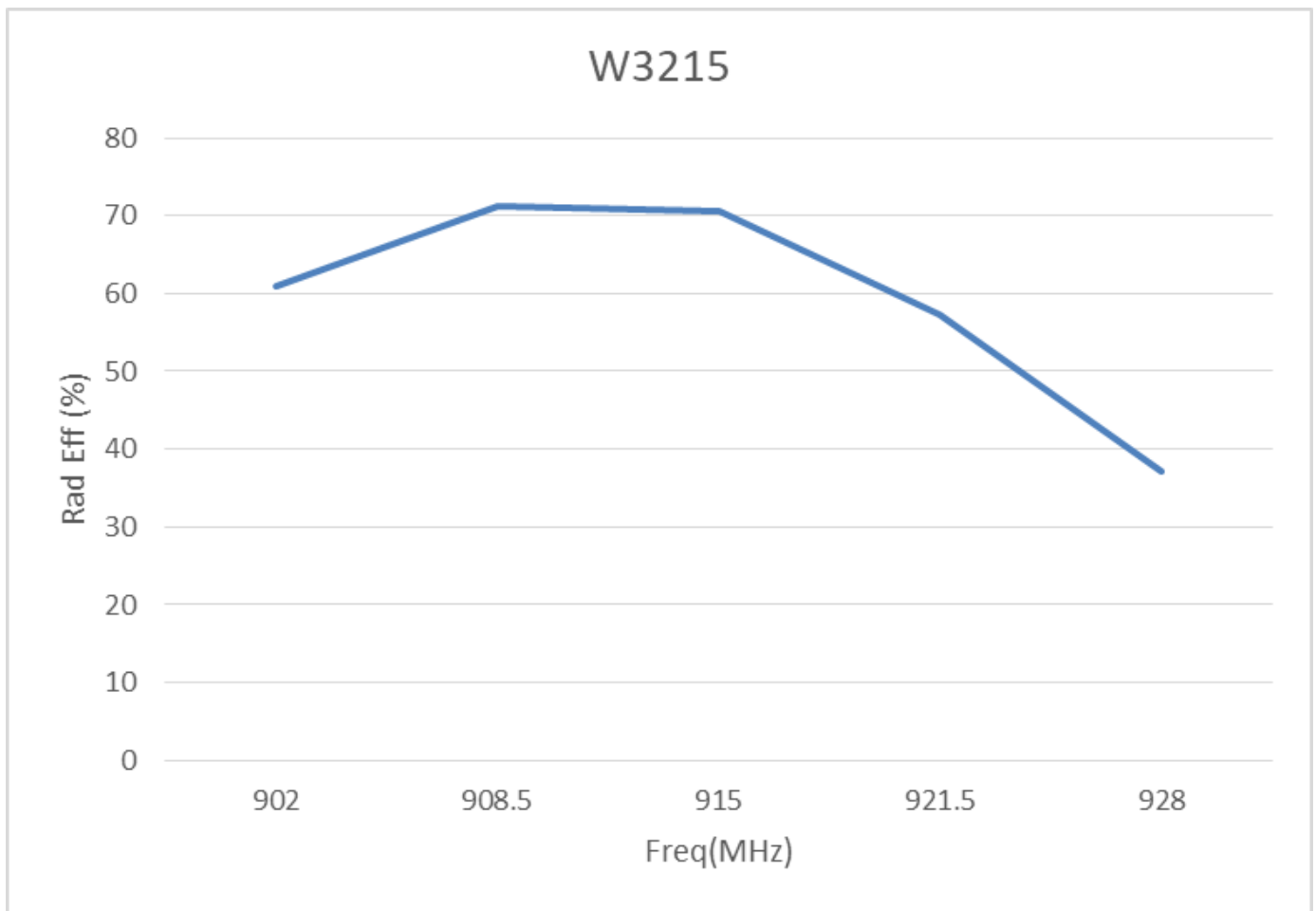
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CHARTS

Radiation Efficiency



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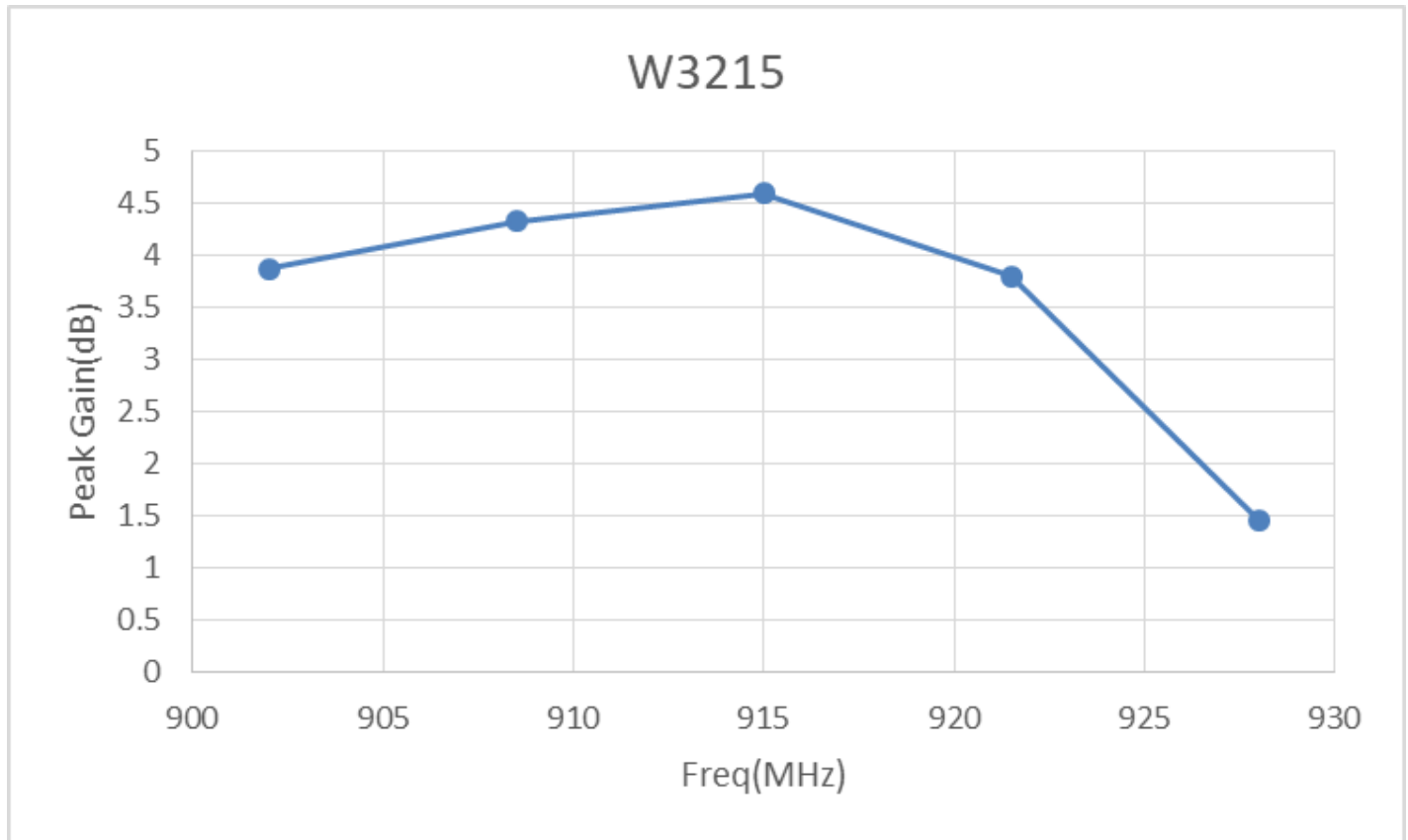
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CHARTS

Peak Gain



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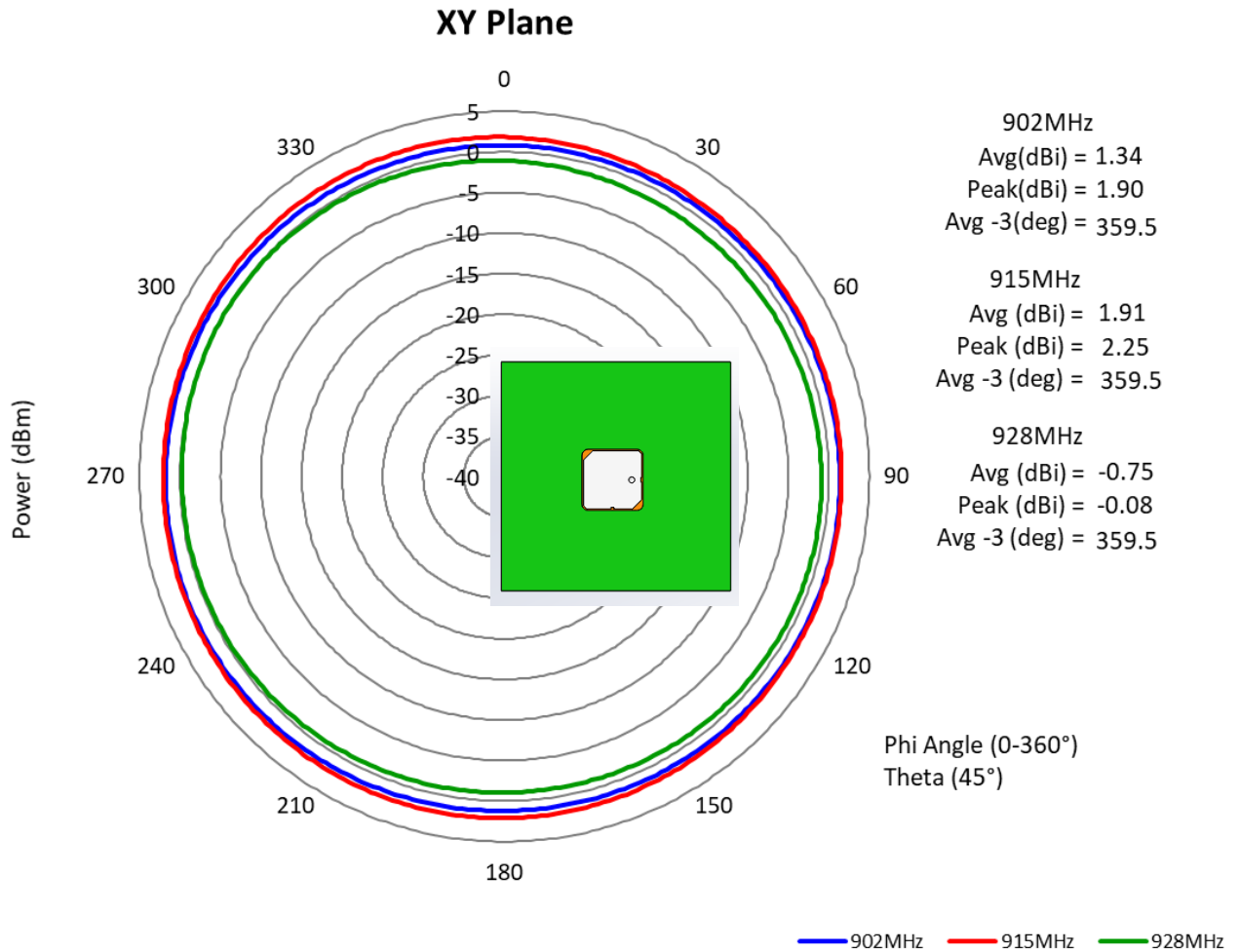
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CHARTS

Radiation pattern(2D)
XY Plane



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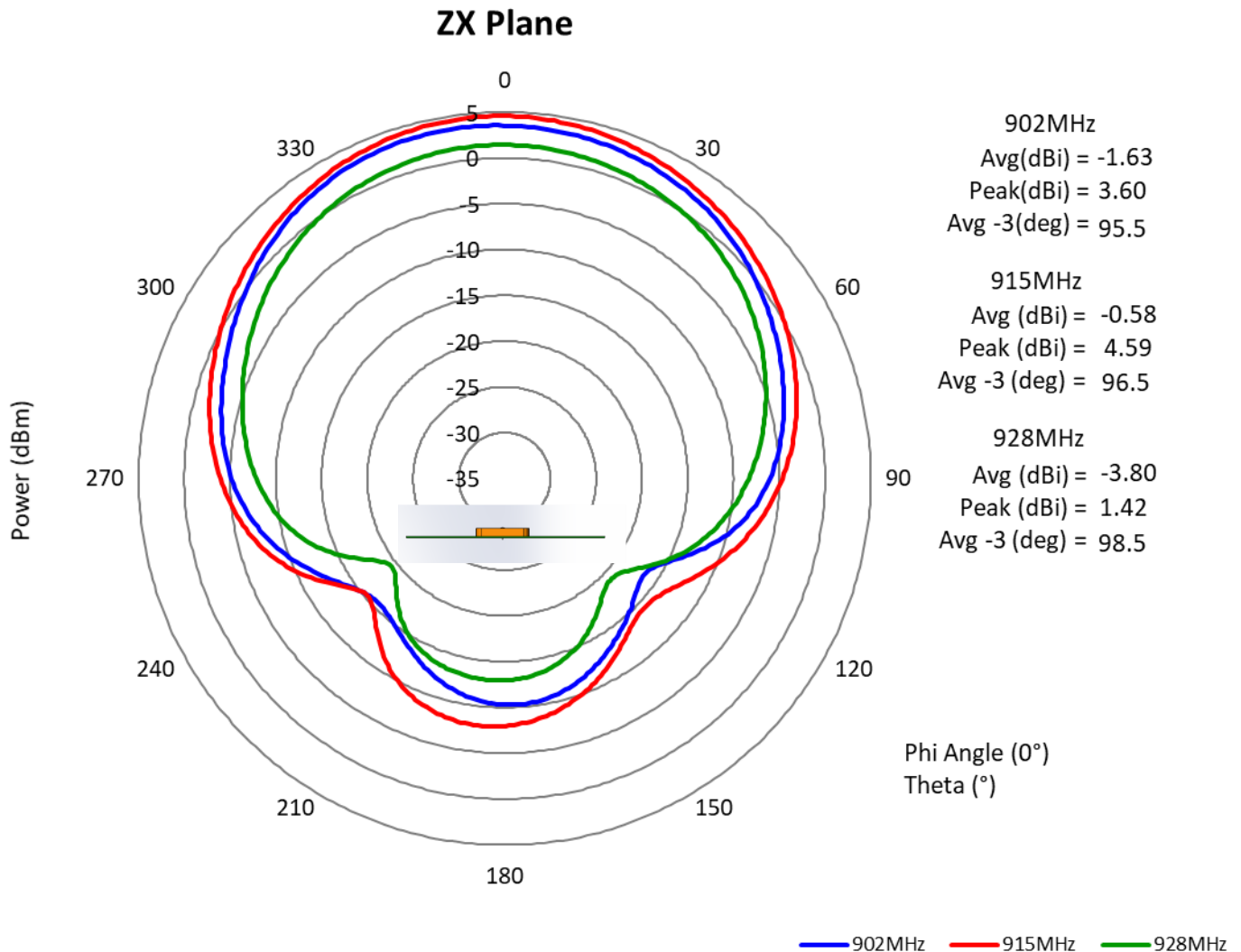
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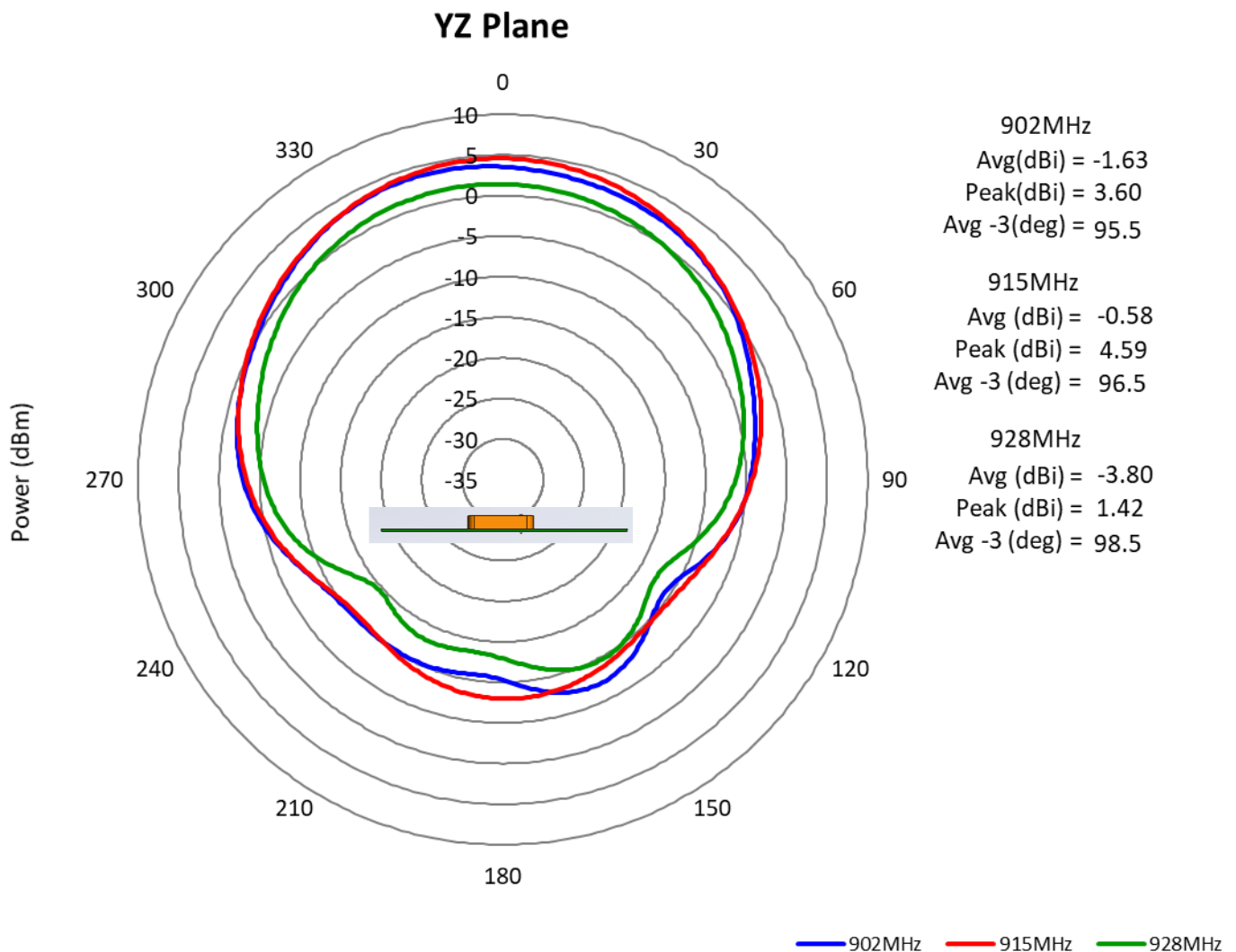
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CHARTS

Radiation pattern(2D) YZ Plane



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PACKAGING

Per package tray	21 elements
Per vacuum bag	4 package bases
Per inner box	1 vacuum bag
Per package	4 inner boxes
Total: 336 pcs	
Big box dimensions (MM): 365X365X160MM	