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PulseLARSEN Antennas

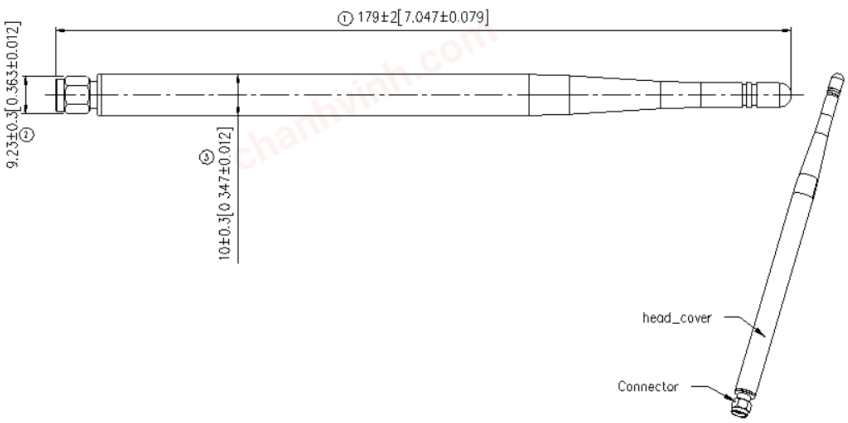
TECHNICAL DATA SHEET

Description: 868-928MHz Dipole Antenna

Series: Stick Antenna

PART NUMBER: W5017





Features:

- Half wave dipole antenna
- Length 179mm
- Gain 0.9 dBi
- Connector SMA Male
- High Efficiency >70%
- Power rating 1W
- IP65 rated

Applications:

- ISM 868 / 915 MHz radios
- IoT, M2M
- Industry automation
- Remote controls
- Toys, Consumer electronics

All dimensions are in mm / inches

Issue: 1723

RoHS COMPLIANT

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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 & 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

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ELECTRICAL SPECIFICATIONS

Frequency	868-928	MHz
Nominal Impedance	50	Ω
VSWR	2.5	Max
Average efficiency	70	%
Peak Gain	0.9	dBi +/- 1 dB
Polarization:	Vertical	
Power withstanding	1	W
Connector type	SMA	

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MECHANICAL SPECIFICATIONS

Plastic radome	TPEE
Color	Black
Ingress Protection	IP65
Weight	16.6 g
Overall Length	7.047 INCHES

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85° C
Temperature	-40/+85° C
Salt mist	24hours

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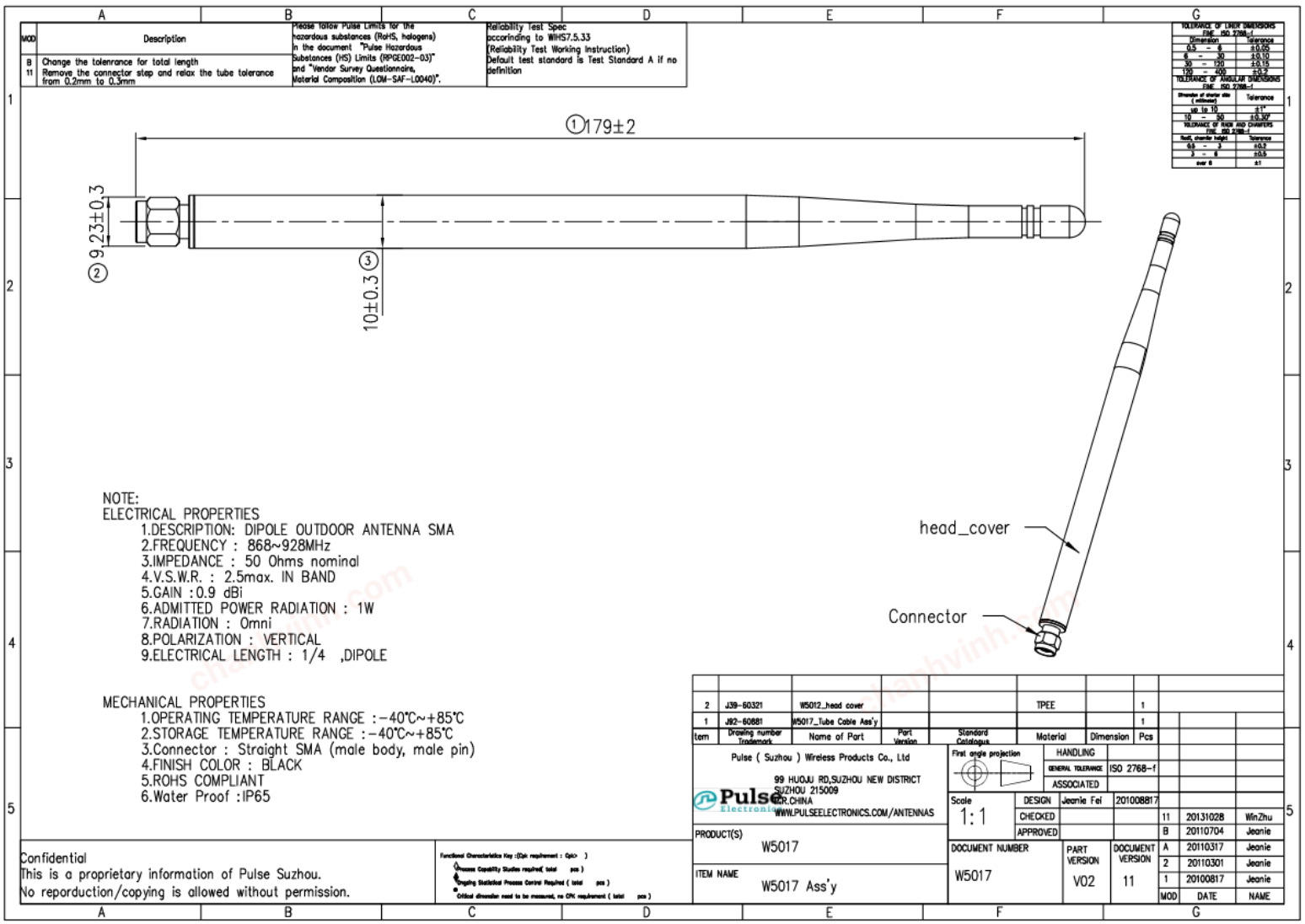
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MECHANICAL DRAWING



Issue: 1723

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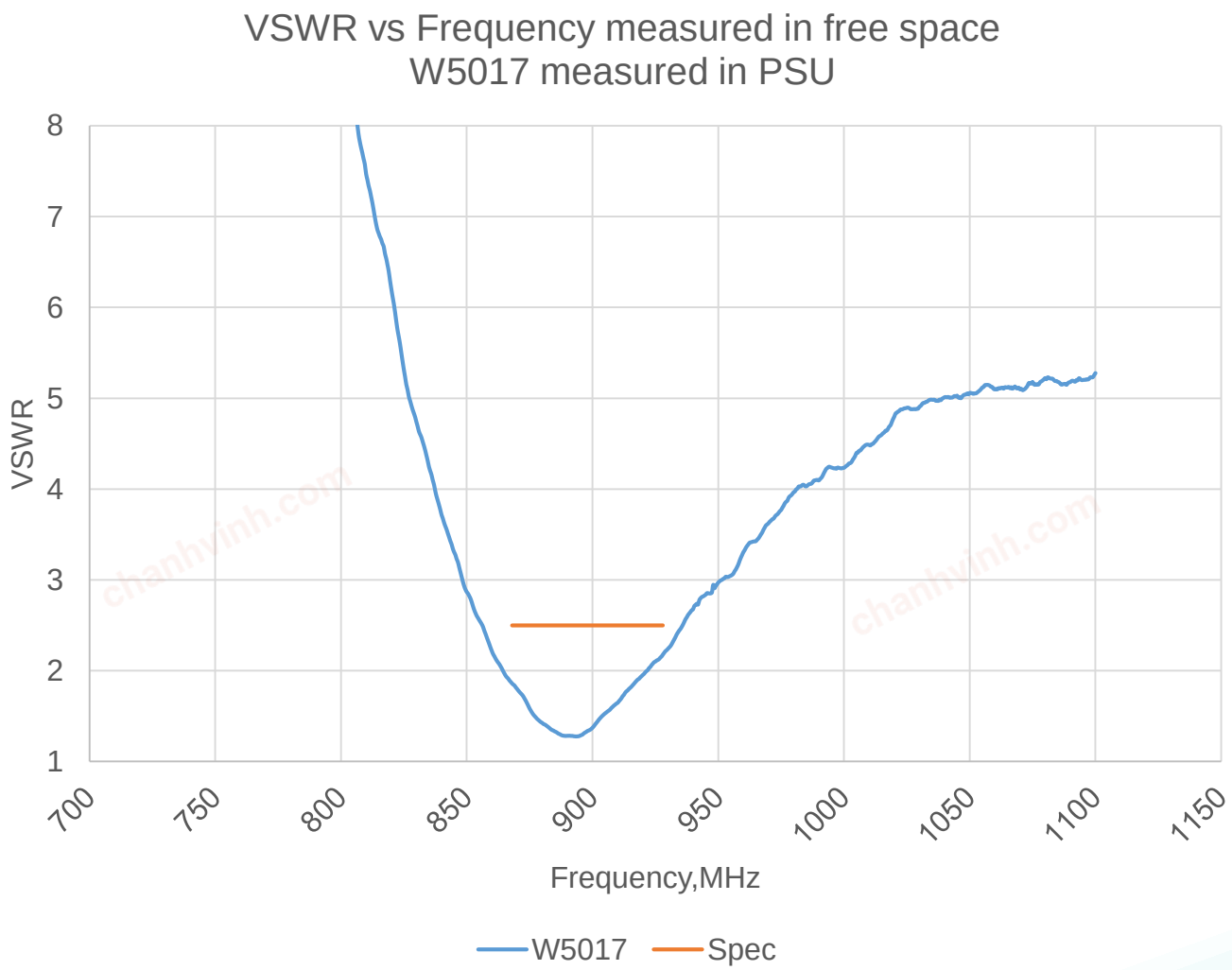
Description: 868-928MHz Dipole Antenna

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CHARTS

VSWR



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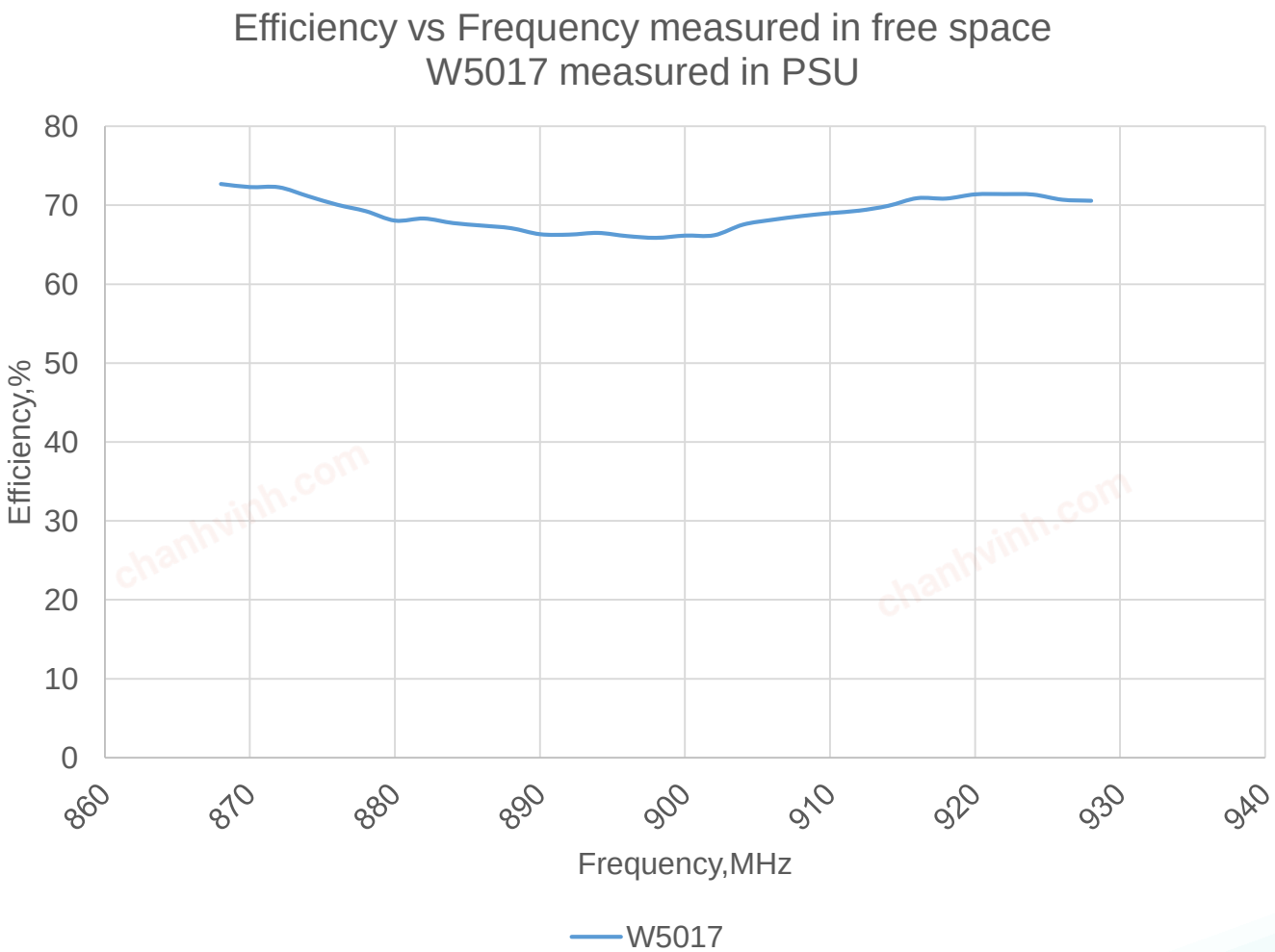
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CHARTS

Efficiency



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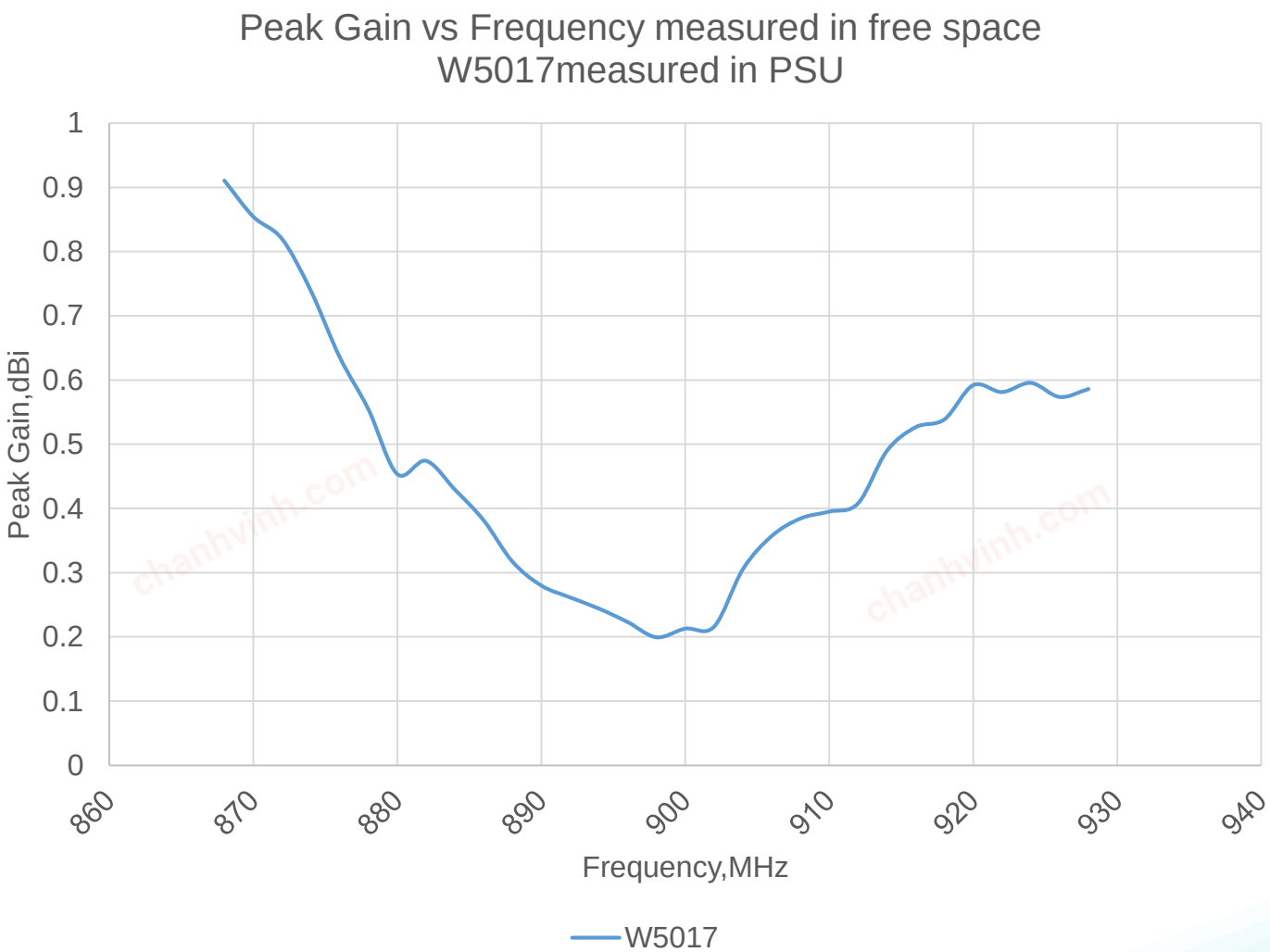
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CHARTS

Peak Gain



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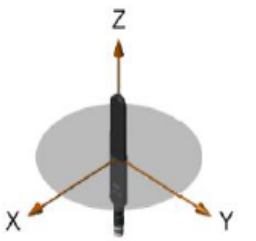
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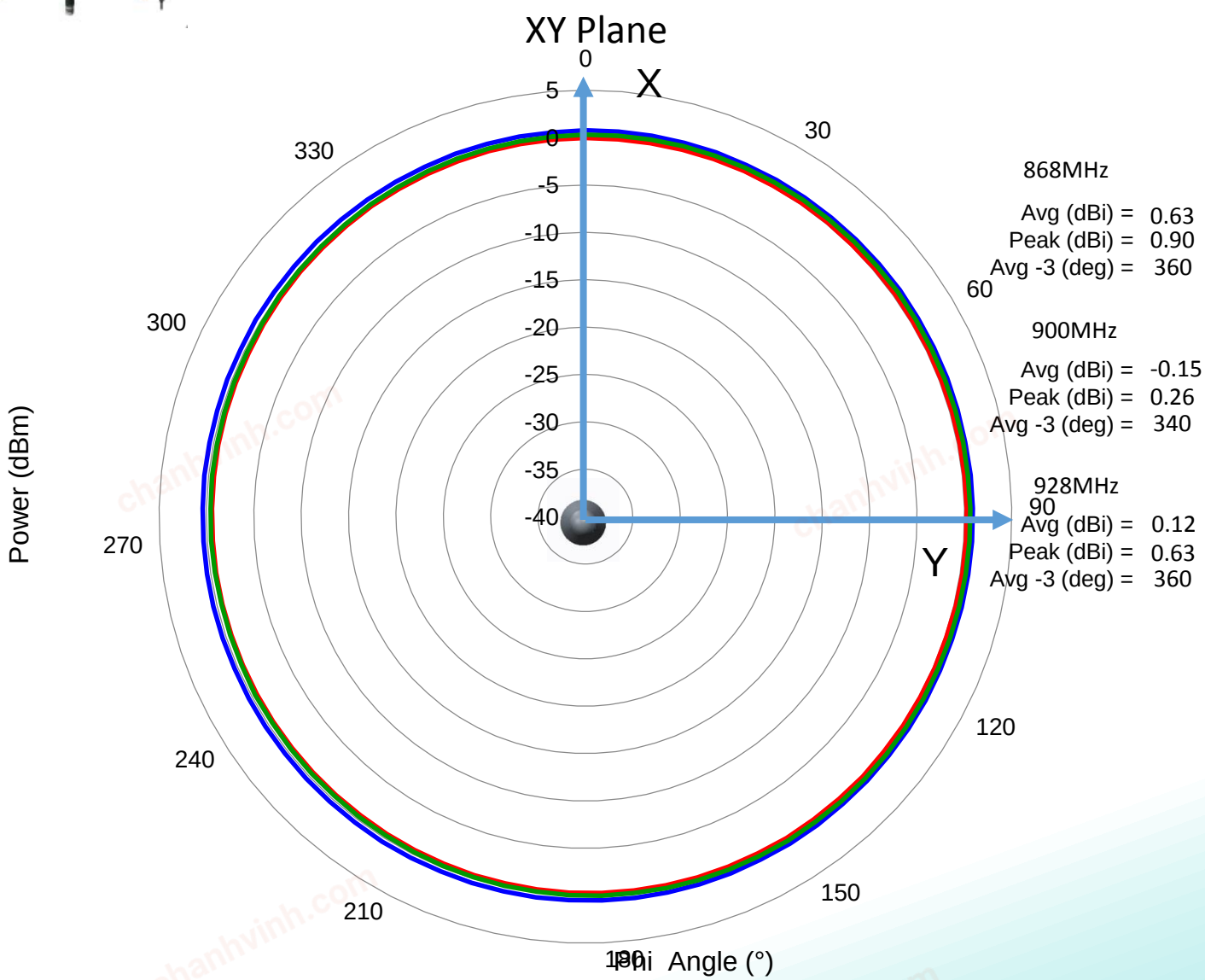
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CHARTS



Gain Plots



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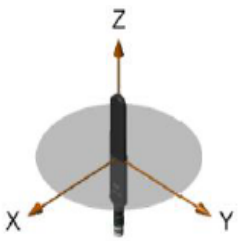
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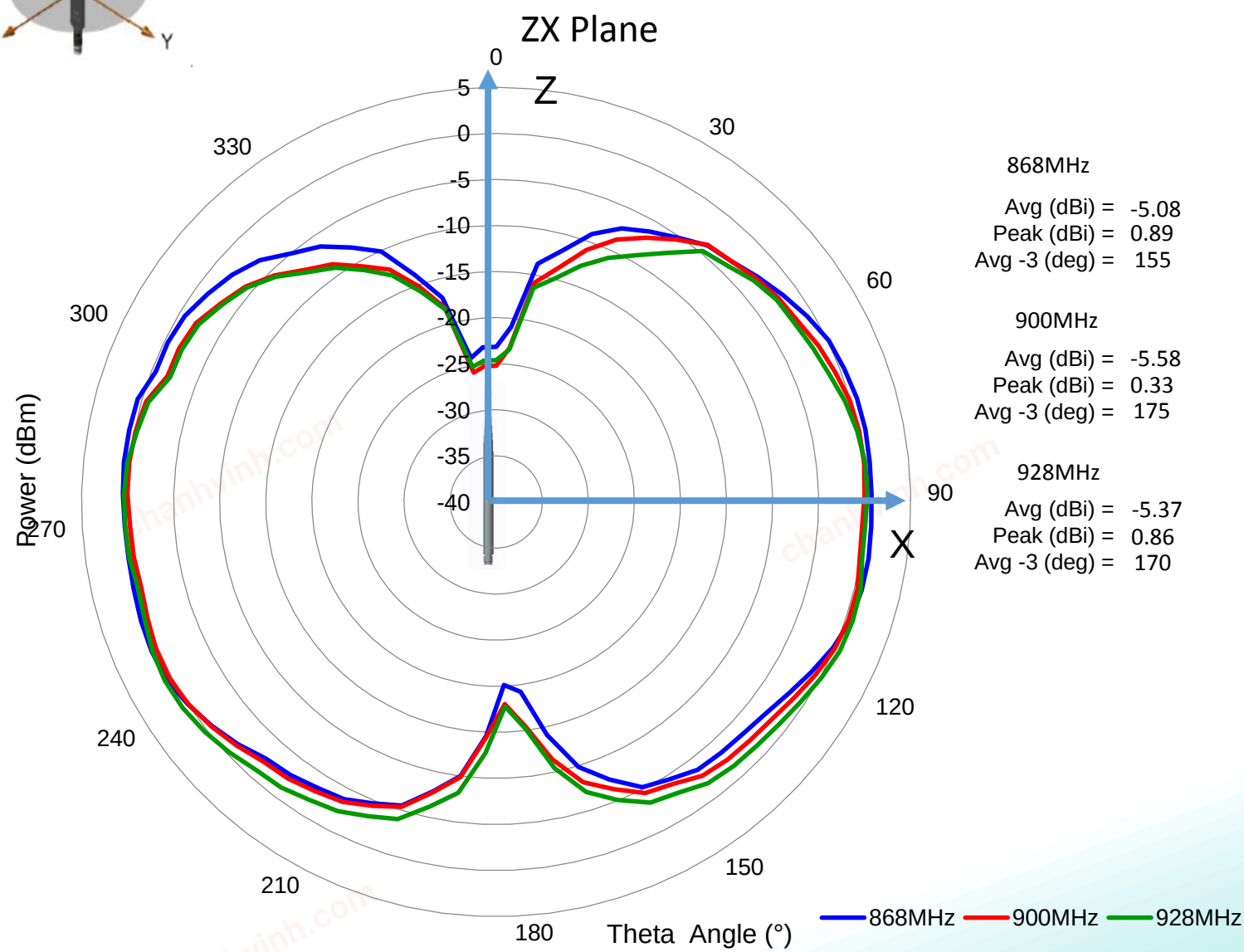
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CHARTS



Gain Plots



868MHz

Avg (dBi) = -5.08
Peak (dBi) = 0.89
Avg -3 (deg) = 155

900MHz

Avg (dBi) = -5.58
Peak (dBi) = 0.33
Avg -3 (deg) = 175

928MHz

Avg (dBi) = -5.37
Peak (dBi) = 0.86
Avg -3 (deg) = 170

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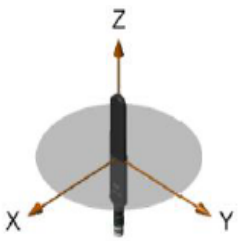
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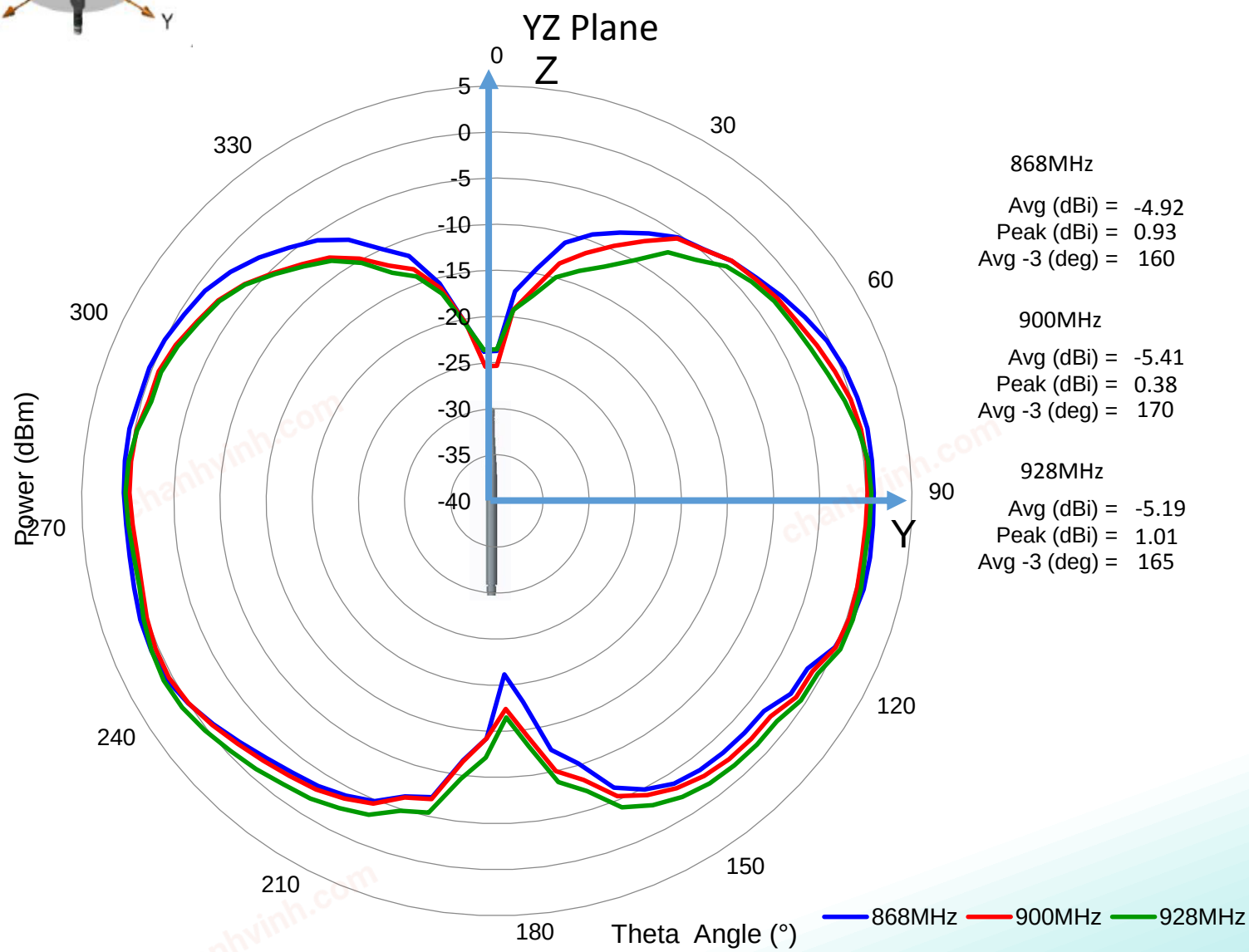
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CHARTS



Gain Plots



868MHz

Avg (dBi) = -4.92
Peak (dBi) = 0.93
Avg -3 (deg) = 160

900MHz

Avg (dBi) = -5.41
Peak (dBi) = 0.38
Avg -3 (deg) = 170

928MHz

Avg (dBi) = -5.19
Peak (dBi) = 1.01
Avg -3 (deg) = 165

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PACKAGING

600 pcs antenna per box

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