TECHNICAL DATA SHEET

Description: LTE 698-2700MHz V-Pol 5/7dBi Antenna

Series: Panel Antenna

PART NUMBER: W3890



Features:

- 698-960 / 1710-2700MHz
- Gain 5 / 7 dBi
- Vertical polarization
- Impedance 50 Ohm
- Size 165 x 155 x 48 mm
- Power withstanding 50W
- RoHS compliant

Applications:

- 2G/3G/4G Radio system
- Small cell base stations
- Indoor / Outdoor directional antenna
- Weather proof IP67

All dimensions are in mm

Preliminary

RoHS COMPLIANT

Issue: 1712P

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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

PulseLARSEN Antennas

Series: Panel Antenna

Description: LTE 698-2700MHz V-Pol 5/7dBi Antenna

PART NUMBER: W3890

ELECTRICAL SPECIFICATIONS

Frequency	698-960/1710-2700	MHz
Nominal Impedance	50	Ω
VSWR (698-960MHz)	1.8:1	Max
VSWR (1710-2700MHz)	1.7:1	Max
Peak Gain (698-960MHz,Typical)	5	dBi
Peak Gain (1710-2700MHz,Typical)	7	dBi
Efficiency (698-960MHz,Typical)	85	%
Efficiency (1710-2700MHz,Typical)	76	%
HPBW / Horizontal Plane(698-806MHz,Typical)	95	Degree
HPBW / Horizontal Plane(806-960MHz,Typical)	90	Degree
HPBW / Horizontal Plane(1710-2700MHz,Typical)	75	Degree
HPBW / Vertical Plane (698-806MHz, Typical)	75	Degree
HPBW / Vertical Plane (806-960MHz, Typical)	65	Degree
HPBW / Vertical Plane (1710-2700MHz, Typical)	55	Degree
F/B Ratio (698-806MHz, Typical)	8	dB
F/B Ratio (806-960MHz, Typical)	12	dB
F/B Ratio (1710-2700MHz, typical)	12	dB
Polarization	Vertical	
Power Withstanding	50	W

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PulseLARSEN Antennas

Series: Panel Antenna

Description: LTE 698-2700MHz V-Pol 5/7dBi Antenna

PART NUMBER: W3890

MECHANICAL SPECIFICATIONS

Overall Dim	165*155*48mm
Weight	0.31Kg
Antenna Color / Material	RAL9016/ABS
Connector type	N Female
Cable type	RG58
Cable length	285mm

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40～+60° C
Storage Temperature	-40～+60° C
Ingress Protection	IP67
Wind-loading	210km/h
RoHS Compliant	Yes

OTHER SPECIFICATIONS

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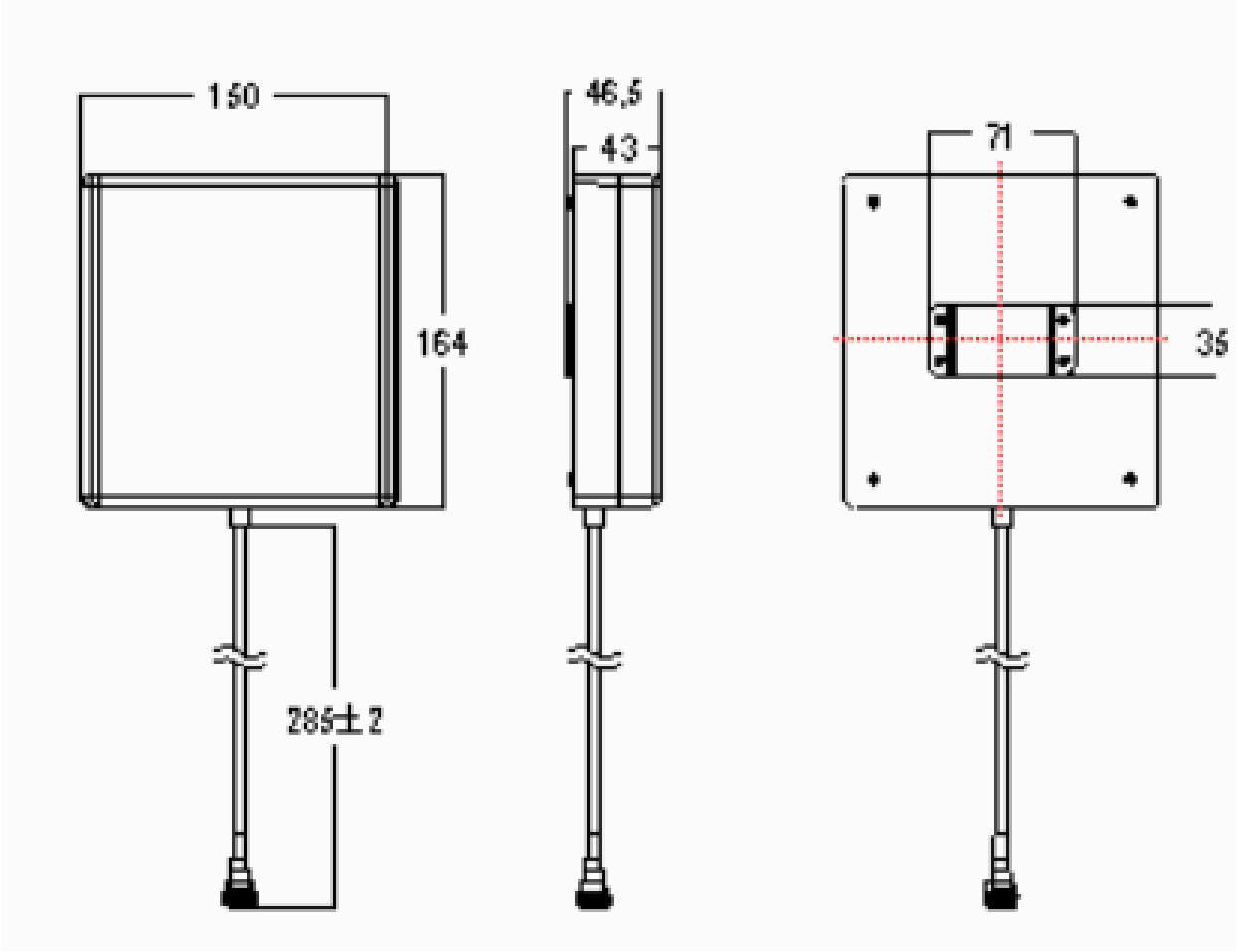
PulseLARSEN Antennas

Series: Panel Antenna

Description: LTE 698-2700MHz V-Pol 5/7dBi Antenna

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MECHANICAL DRAWING



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RoHS COMPLIANT

TEST SETUP

Test in Free Space

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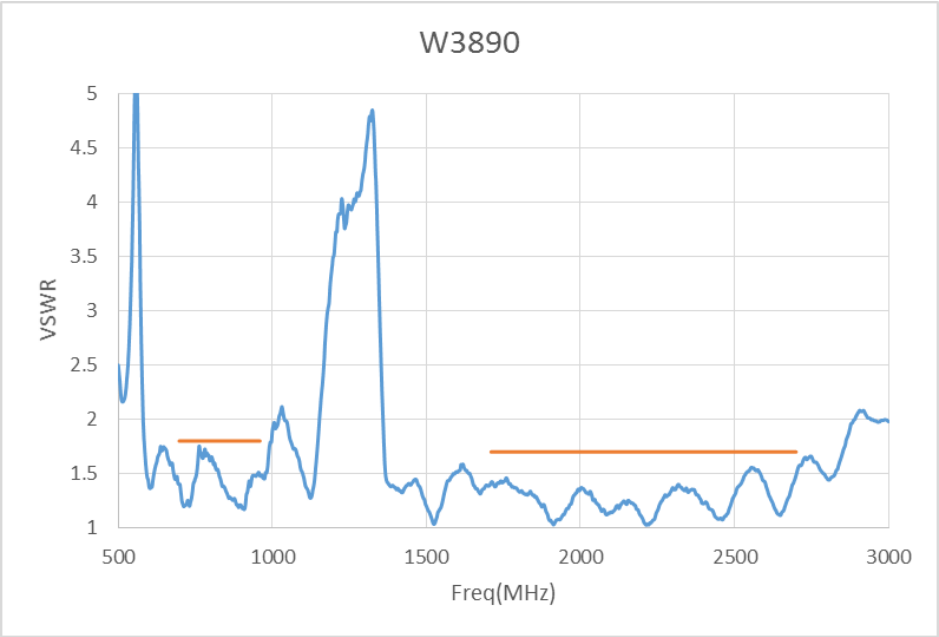
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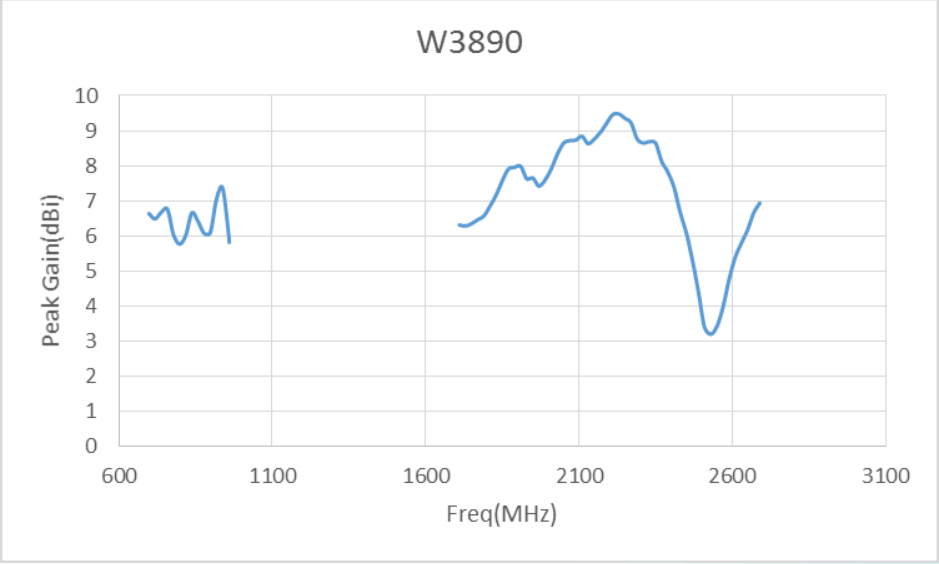
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CHARTS

VSWR



Peak Gain



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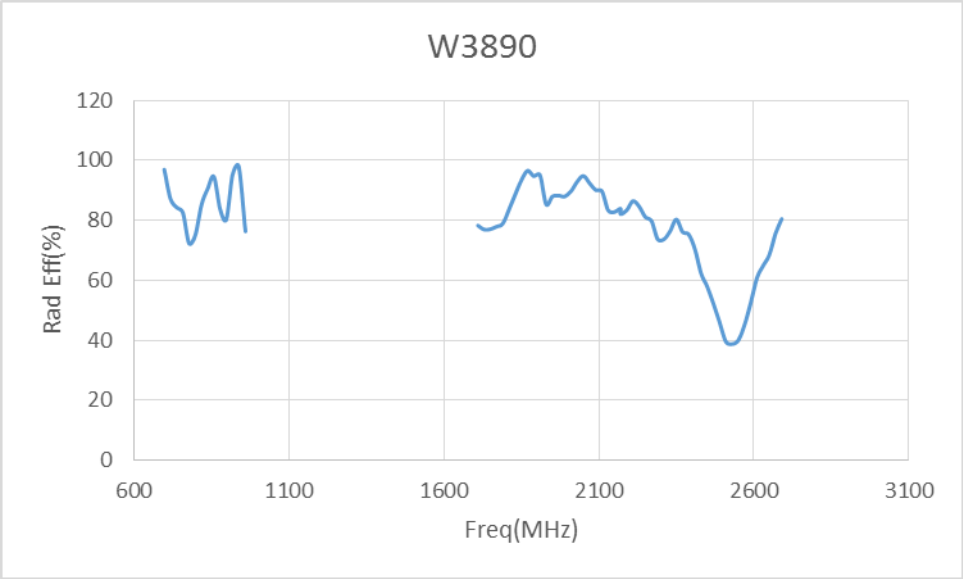
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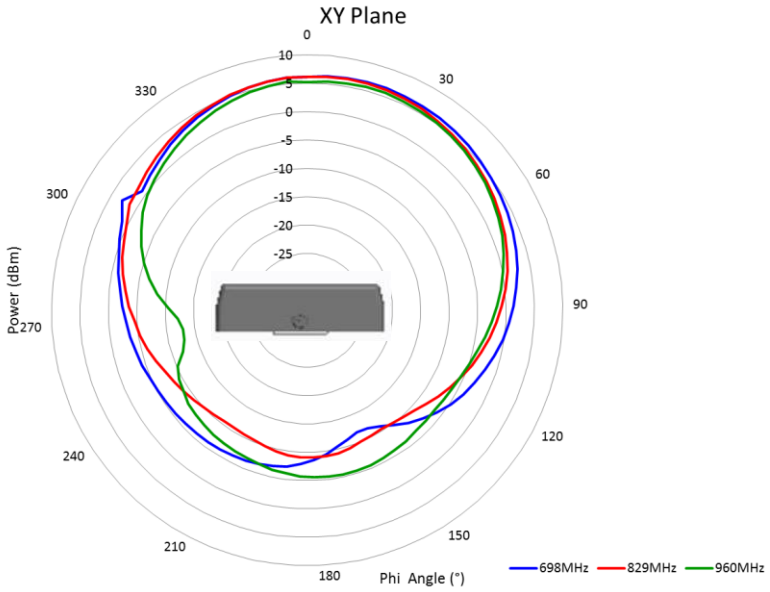
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CHARTS

Radiation Efficiency



Radiation Pattern _ Horizontal Plane at Low band



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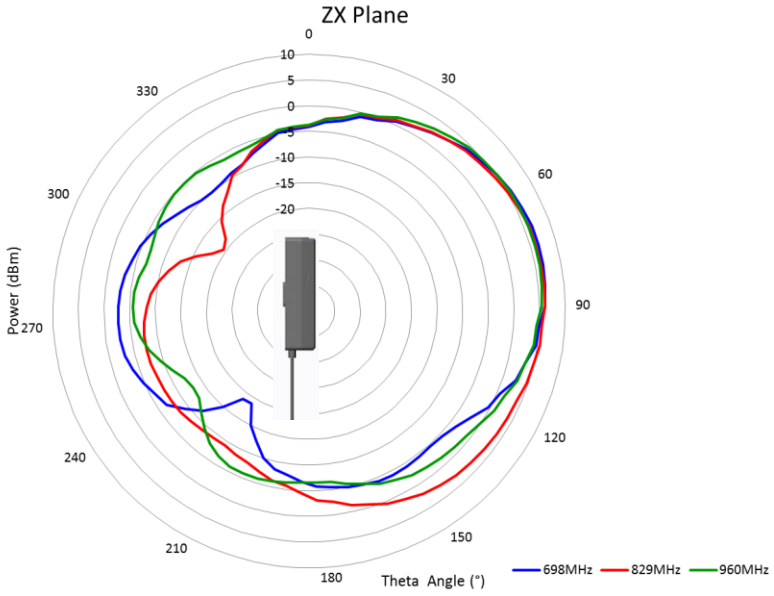
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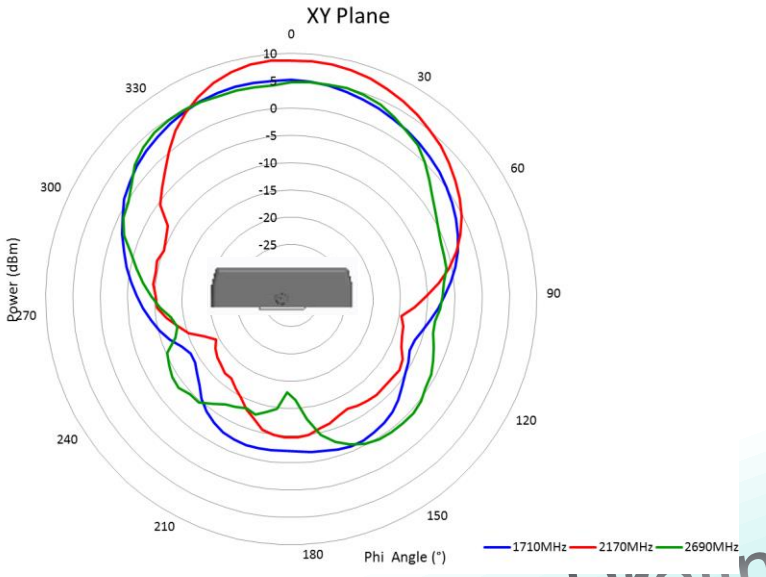
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CHARTS

Radiation Pattern _ Vertical Plane at Low band



Radiation Pattern _ Horizontal Plane at high band



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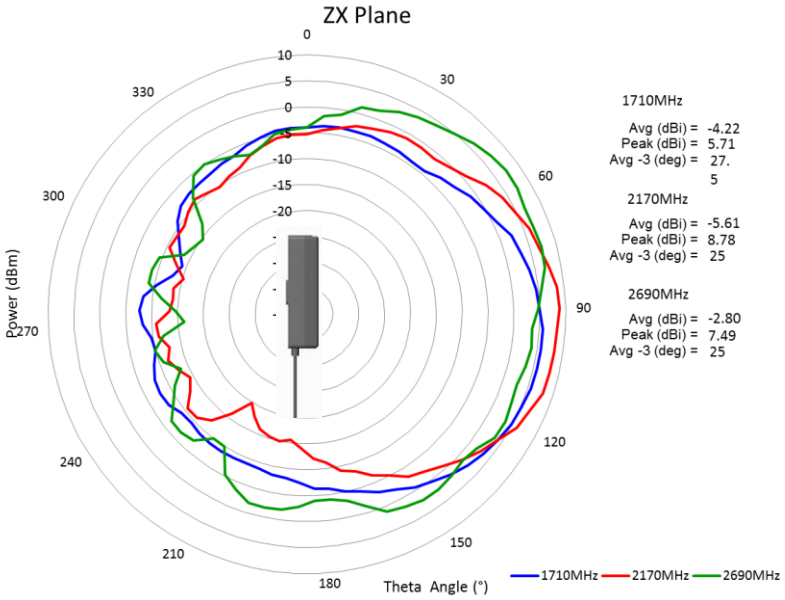
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CHARTS

Radiation Pattern _ Vertical Plane at high band



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PACKAGING

Packing one antenna in one inner box, 20 inner box into one outer-box

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