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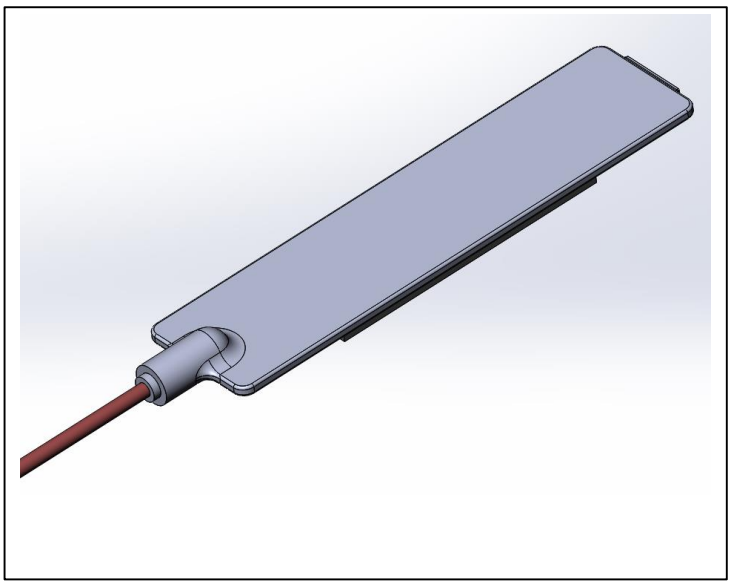
PulseLARSEN Antennas

TECHNICAL DATA SHEET

Description: Stealth Blade LTE Antenna

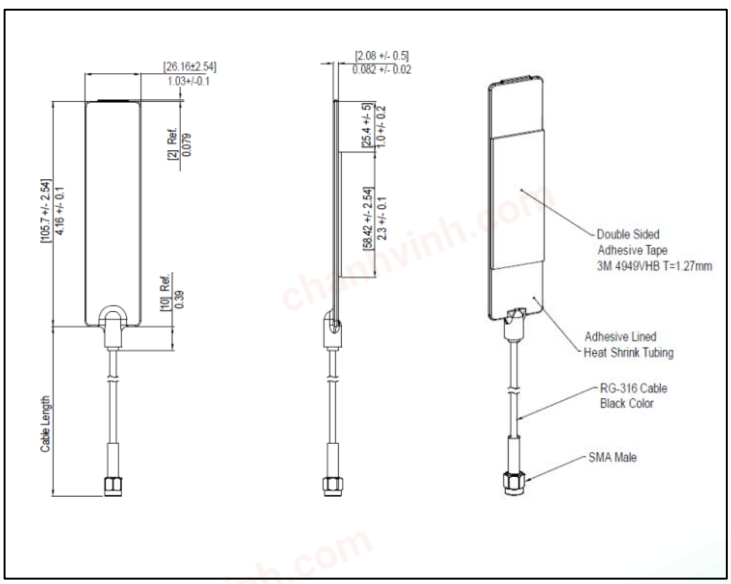
Series: Stealth Blade

PART NUMBER: SB698SMAXX



Features:

- Cost-effective, high-performance solution for LTE
- Slim, low- profile without sacrificing mechanical performance
- Multiple cable lengths and connector options
- Adhesive mount
- Flexible board
- IP-67 rating when installed to compliant surface
- RoHS Compliant Product
- Multiple and dual frequency products available



Applications:

- WLAN, LTE and 3G/4G applications
- Public Safety
- IoT - Vending/Smart Metering
- Access Points
- Vehicular (window, dashboard, visor)
- Data transmission

All dimensions are in mm / inches

Issue: 1623

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For more information:

Pulse Worldwide Headquarters
12220 World Trade Drive
San Diego, CA 92128
USA
Tel:1-858-674-8100

Pulse/Larsen Antennas
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

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PulseLARSEN Antennas

TECHNICAL DATA SHEET

Description: Stealth Blade LTE Antenna

Series: Stealth Blade

PART NUMBER: SB698SMAXX

This document covers all product variants of the following product family:

Projects	Connector	Cable Type	Cable Length	Weight
SB698SMA3	SMA Male	RG-316	3’ / 914.4mm	26g
SB698SMA12			12’ / 3657.6mm	49g

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PulseLARSEN Antennas

TECHNICAL DATA SHEET

Description: Stealth Blade LTE Antenna

Series: Stealth Blade

PART NUMBER: SB698SMAXX

ELECTRICAL SPECIFICATIONS

Antenna Type	Dipole (Measured with 315mm RG-174 Cable, in free space)
Frequency	698-960/1710-2170/2300-2700MHz
Nominal Impedance	50 Ω
VSWR	2.5:1 Max
Peak Gain (698-960)	2 dBi
Peak Gain (1710-2700)	2 dBi
Efficiency (698-960)	50 %
Efficiency (1710-2700)	60 %
HPBW Horizontal Plane	Omni
HPBW Vertical Plane (698-960)	40°
HPBW Vertical Plane (1710-2170)	70°
HPBW Vertical Plane (2300-2700)	55°
Polarization	Vertical
Power withstanding	3 W
Connector type	Refer to table on Page 2
Cable type	Black RG-316
Length	Refer to table on Page 2

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PulseLARSEN Antennas

TECHNICAL DATA SHEET

Description: Stealth Blade LTE Antenna

Series: Stealth Blade

PART NUMBER: SB698SMAXX

MECHANICAL SPECIFICATIONS

Color	Black
Ingress Protection	IP67
Weight	Refer to table on Page 2
Fixing system	Adhesive Tape

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40 ~ +85° C

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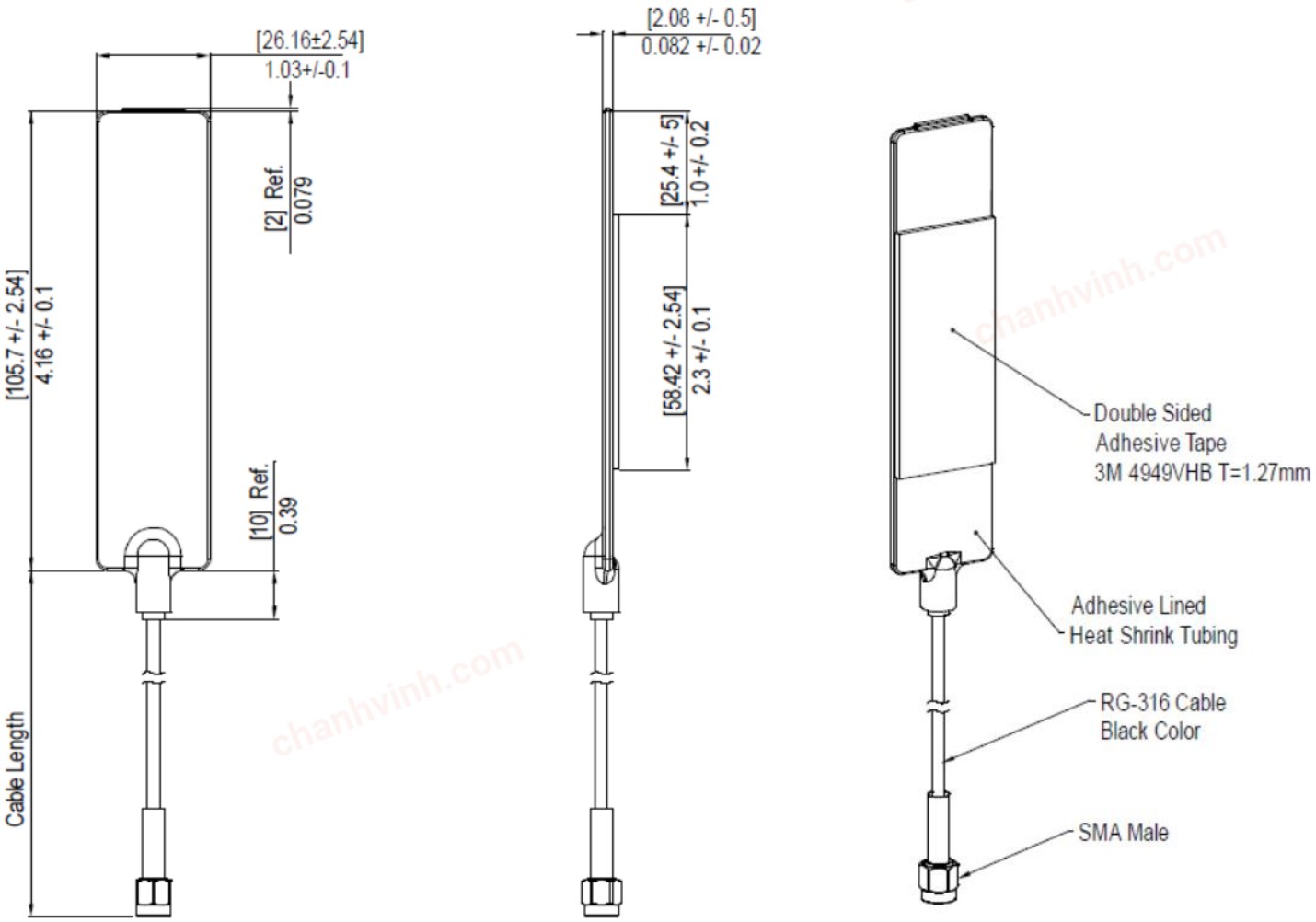
TECHNICAL DATA SHEET

Description: Stealth Blade LTE Antenna

Series: Stealth Blade

PART NUMBER: SB698SMAXX

MECHANICAL DRAWING



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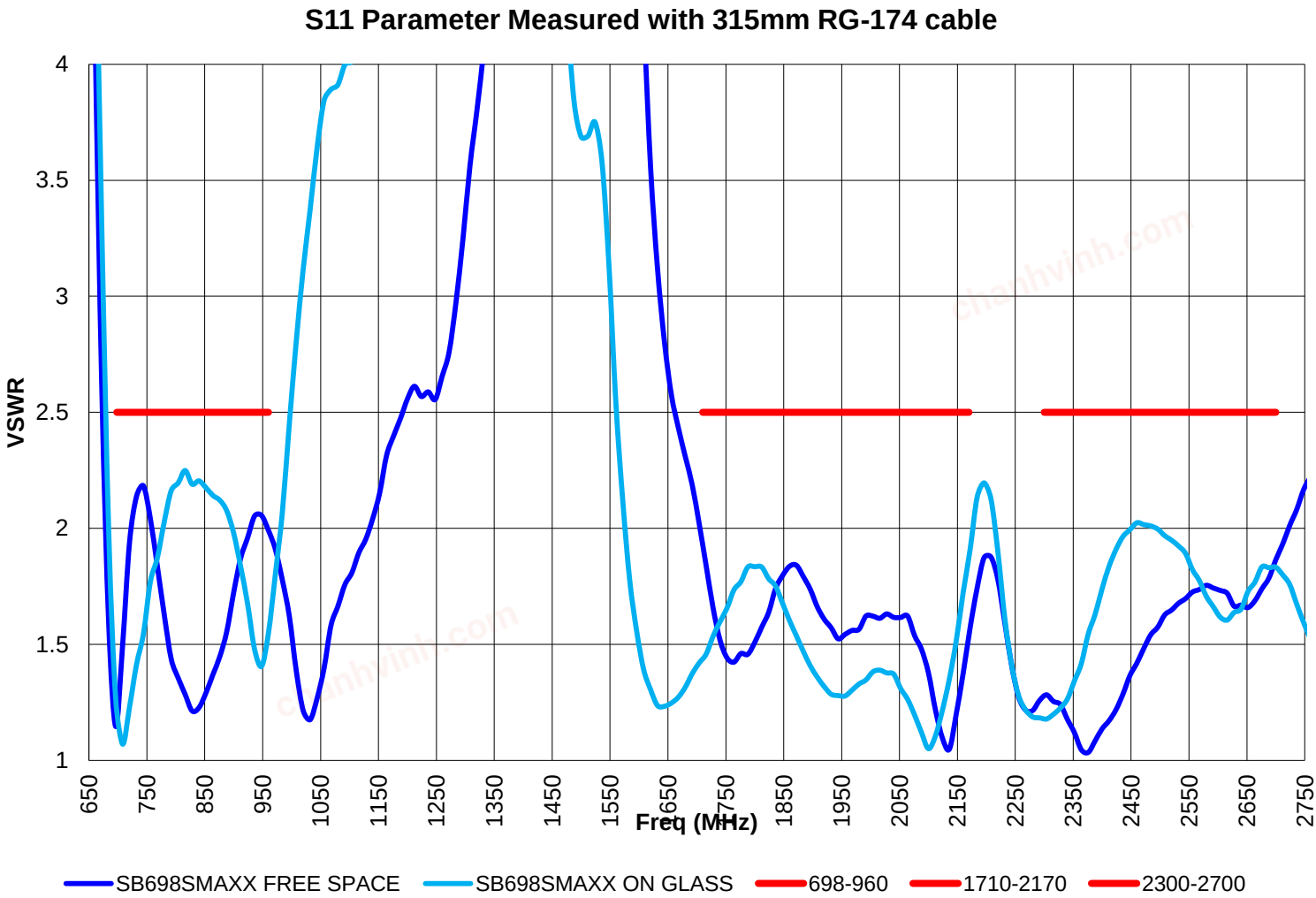
TECHNICAL DATA SHEET

Description: Stealth Blade LTE Antenna

Series: Stealth Blade

PART NUMBER: SB698SMAXX

CHARTS



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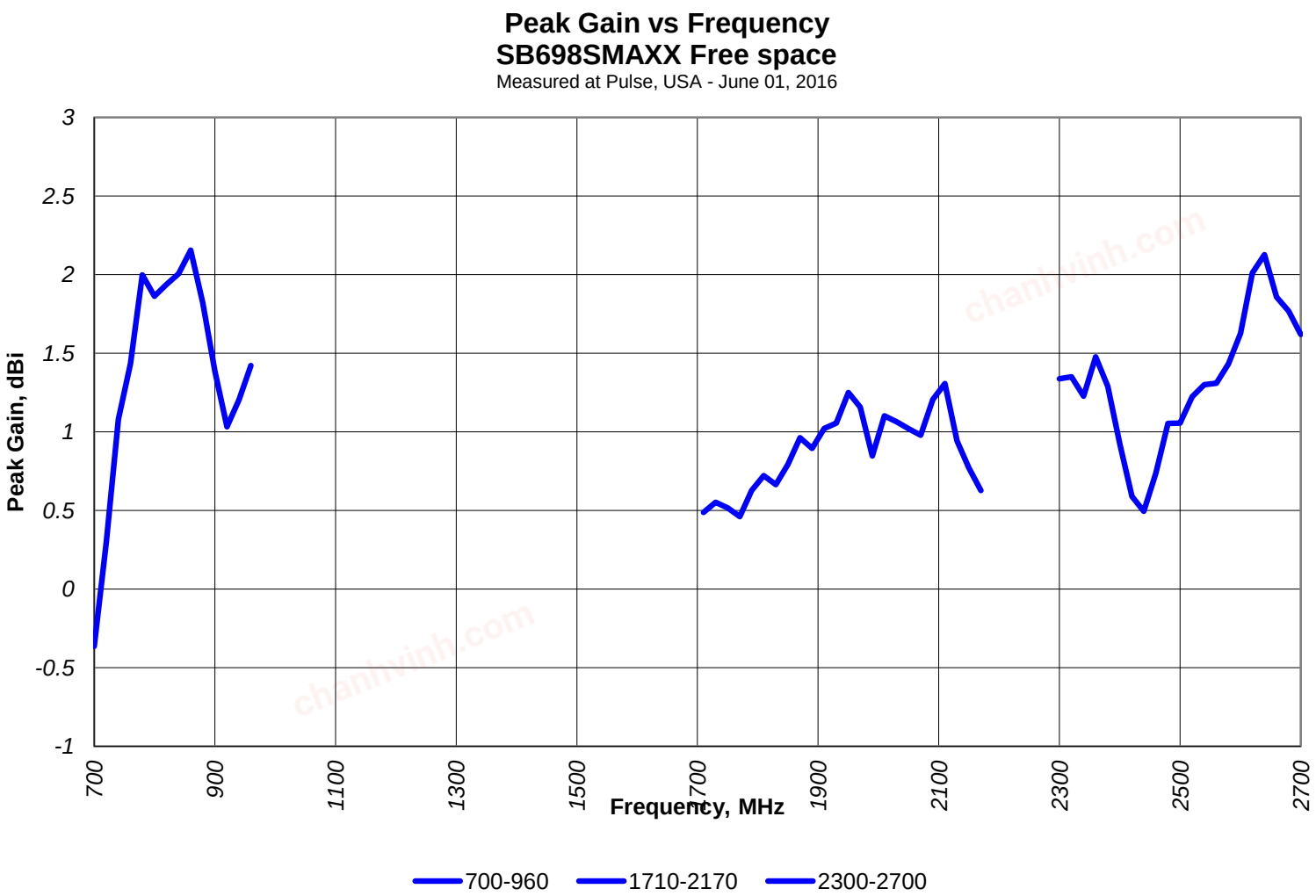
TECHNICAL DATA SHEET

Description: Stealth Blade LTE Antenna

Series: Stealth Blade

PART NUMBER: SB698SMAXX

CHARTS



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PulseLARSEN Antennas

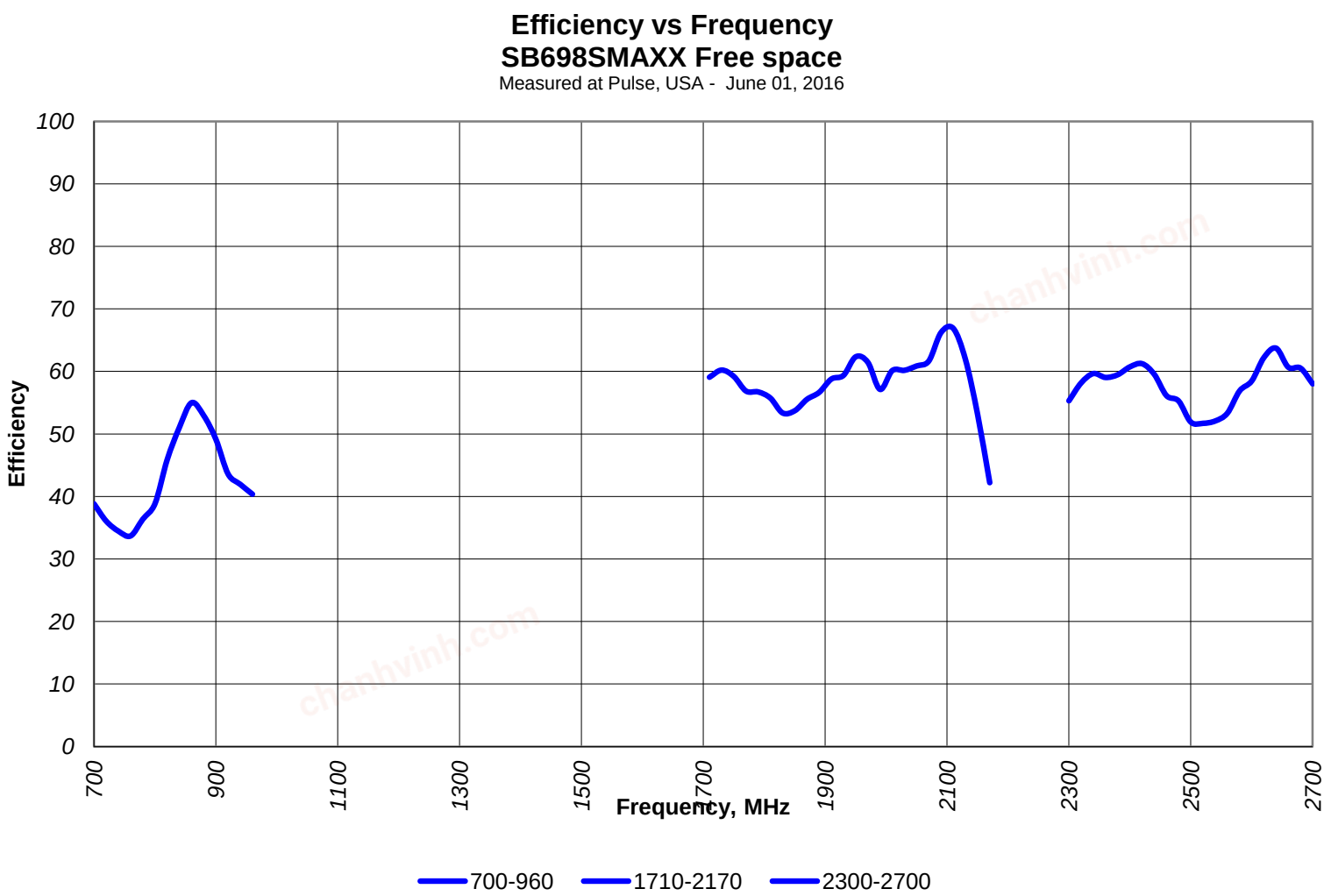
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Description: Stealth Blade LTE Antenna

Series: Stealth Blade

PART NUMBER: SB698SMAXX

CHARTS



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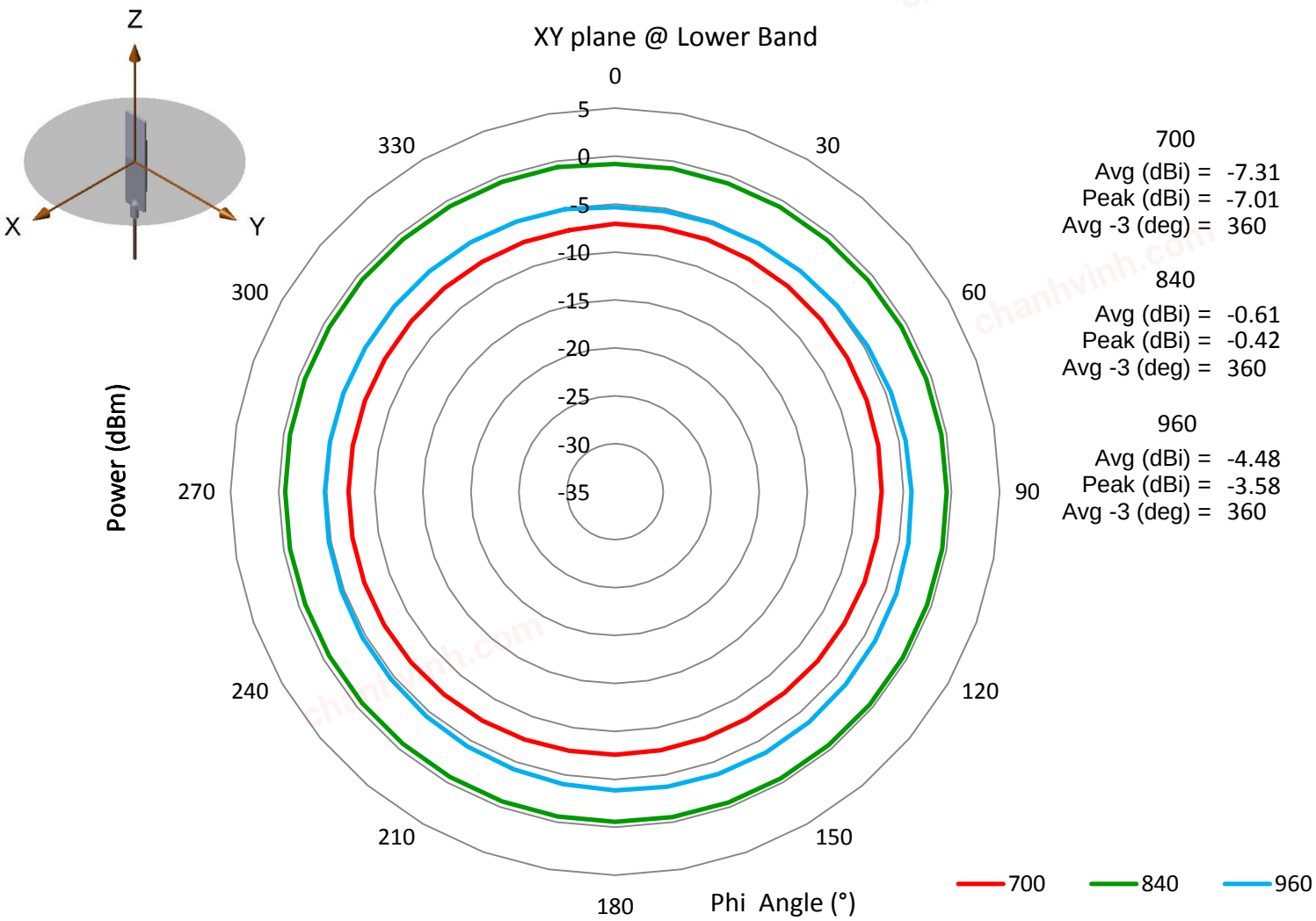
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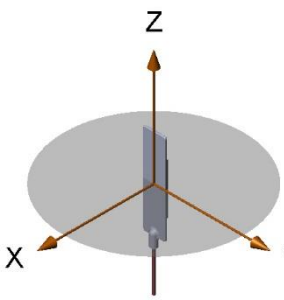
TECHNICAL DATA SHEET

Description: Stealth Blade LTE Antenna

Series: Stealth Blade

PART NUMBER: SB698SMAXX

CHARTS



1710
Avg (dBi) = -1.47
Peak (dBi) = -0.62
Avg -3 (deg) = 360

1950
Avg (dBi) = -0.04
Peak (dBi) = 0.69
Avg -3 (deg) = 360

2170
Avg (dBi) = -2.06
Peak (dBi) = -1.33
Avg -3 (deg) = 360

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PulseLARSEN Antennas

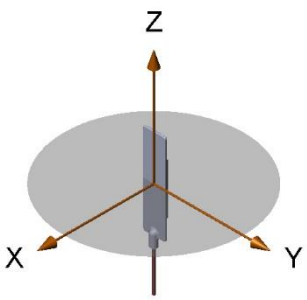
TECHNICAL DATA SHEET

Description: Stealth Blade LTE Antenna

Series: Stealth Blade

PART NUMBER: SB698SMAXX

CHARTS



2300	
Avg (dBi) =	0.17
Peak (dBi) =	0.73
Avg -3 (deg) =	360

2500	
Avg (dBi) =	-0.81
Peak (dBi) =	0.02
Avg -3 (deg) =	360

2700	
Avg (dBi) =	0.49
Peak (dBi) =	1.62
Avg -3 (deg) =	360

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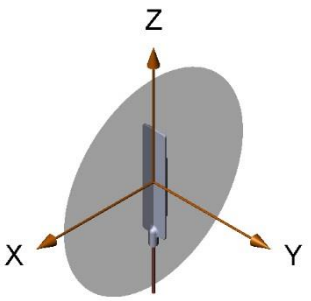
TECHNICAL DATA SHEET

Description: Stealth Blade LTE Antenna

Series: Stealth Blade

PART NUMBER: SB698SMAXX

CHARTS



700
Avg (dBi) = -4.84
Peak (dBi) = -0.40
Avg -3 (deg) = 47

840
Avg (dBi) = -3.18
Peak (dBi) = 2.00
Avg -3 (deg) = 32

960
Avg (dBi) = -4.16
Peak (dBi) = 1.42
Avg -3 (deg) = 30

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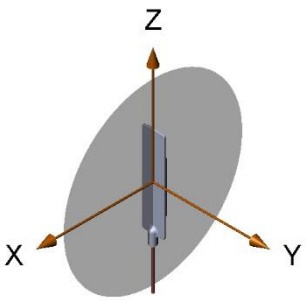
TECHNICAL DATA SHEET

Description: Stealth Blade LTE Antenna

Series: Stealth Blade

PART NUMBER: SB698SMAXX

CHARTS



1710
Avg (dBi) = -3.57
Peak (dBi) = -0.05
Avg -3 (deg) = 92

1950
Avg (dBi) = -3.53
Peak (dBi) = 0.67
Avg -3 (deg) = 63

2170
Avg (dBi) = -5.17
Peak (dBi) = -0.04
Avg -3 (deg) = 18

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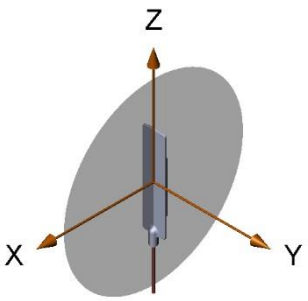
TECHNICAL DATA SHEET

Description: Stealth Blade LTE Antenna

Series: Stealth Blade

PART NUMBER: SB698SMAXX

CHARTS



	2300	2500	2700
Avg (dBi) =	-4.06	-4.49	-4.32
Peak (dBi) =	0.67	-0.27	0.45
Avg -3 (deg) =	36	57	56

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