

PIMinator® Series

Translucent DAS Antenna Family

Ultra-Thin, Ceiling-Mount Omni Antenna

Ceiling Omni Antenna Family: DASUTCCxxx Series



PROFILE VIEW



DIRECT VIEW FROM BELOW

Industry leading -155 dBc PIM compliant in-building Clear Ultra-Thin ceiling mount DAS omni antenna family including six different antenna products and one Energy Directive Reflector. The Pulse Electronics PIMinator® line of DAS in-building low PIM omni antenna meets the most demanding PIM requirements for 2G, 3G, 4G (LTE) and WiFi bands. DASUTCC product family includes a 500mm pigtail with N, Mini-DIN and 4.3-10 female connector products.

This low PIM antenna helps meet the operators increasing demand for high data rates and streaming video as well as Voice over LTE (VoLTE) services for mobile devices. The wide frequency band design meets the needs of operators around the World.

Features

- Ultra-Thin
- Translucent (Clear)
- Industry leading -155 dBc at 2 x 20 watts (2 x 43dBm) PIM rating
- Covers cellular bands and WiFi from 608 through 2700 MHz
- with N, Mini-DIN and 4.3-10 female connector
- RoHS Compliant
- Patent Pending design

Applications

- Ultra-Thin structure of products allow installation in places where Aesthetics is important
- Clear (Translucent) structure of antenna make this product nearly-invisible
- In-building DAS systems requiring best PIM

Antennas and accessory products covered in this documents are as follows:

Pulse Part Number	Connector Type	Reflector
DASUTCCR500NF	N Female	Included
DASUTCCR500MD	4.1-9.5 Mini-DIN Female	Included
DASUTCCR5004310	4.3-10 DIN Female	Included
DASUTCC500NF	N Female	Not Included
DASUTCC500MD	4.1-9.5 Mini-DIN Female	Not Included
DASUTCC5004310	4.3-10 DIN Female	Not Included
Accessory Part Number	Description	
DASUTCCACC1	Reflector only (not antenna)	

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San Diego, California
858 674 8100

Vancouver, Washington
360 944 7551

Europe
49 7032 7806 0

China
86 512 6807 9998

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Electrical Specifications

Frequency [MHz]		608-960/1695-2200/ 2300-2700	
Nominal Impedance [Ω]		50	
VSWR	608-960 MHz	<2:1	
	1695-2200 MHz	<2:1	
	2300-2700 MHz	<2:1	
		Without Reflector	With Reflector
Gain	608-960 MHz [dBi typ]	4	7
	1695-2200 MHz [dBi typ]	6	7
	2300-2700 MHz [dBi typ]	6	5
Radiation Pattern	HPBW Horizontal Plane at 45° [°]	360	
	HPBW Vertical Plane (608-960) [° typ]	100	90
	HPBW Vertical Plane (1695-2700) [° typ]	130	25
Polarization		Vertical	
Power Rating [W]		40	
PIM at 2x20 Watts [dBc]		-155	
Connector		(NF), (4.1-9.5 Mini DIN F), (4.3-10 DIN F)	
Cable Type		Plenum Rated, CM-Rated, NFPA262 compliant	

Environmental Specifications

Operating Temperature [°C]	-40 to +70
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Mechanical Specifications

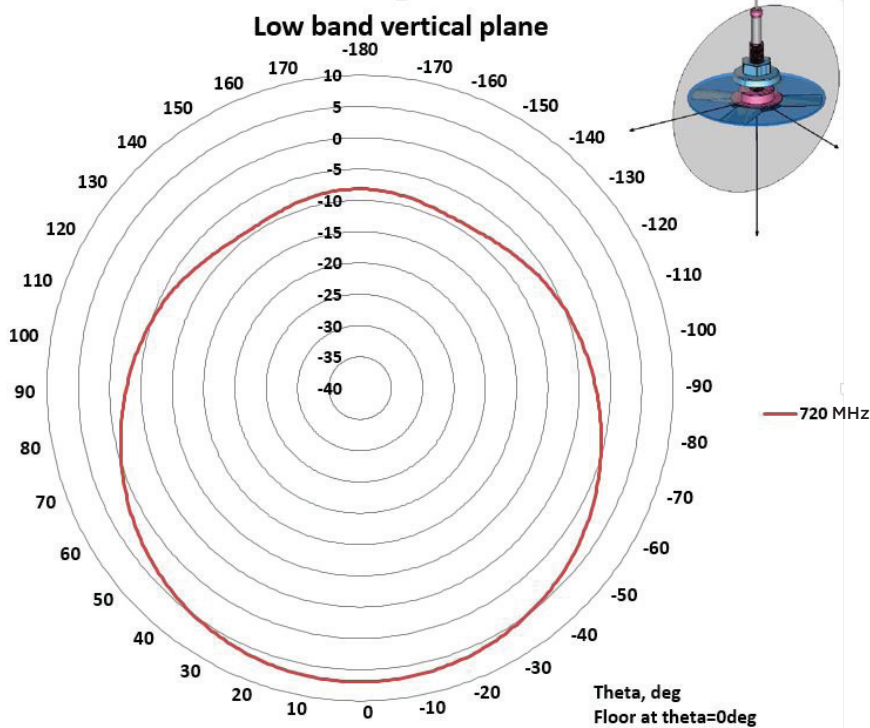
Radome Material	UV Protected, UL94 V-0
Color	Translucent (Clear)
Weight [oz/g]	1.65 / 750
Dimensions [Inches/m]	9.41 inches / 239 mm diameter, Full height 6.78 inches / 172 mm Extension from ceiling only 0.33 inches / 8.4 mm
Mounting	Through-hole mount

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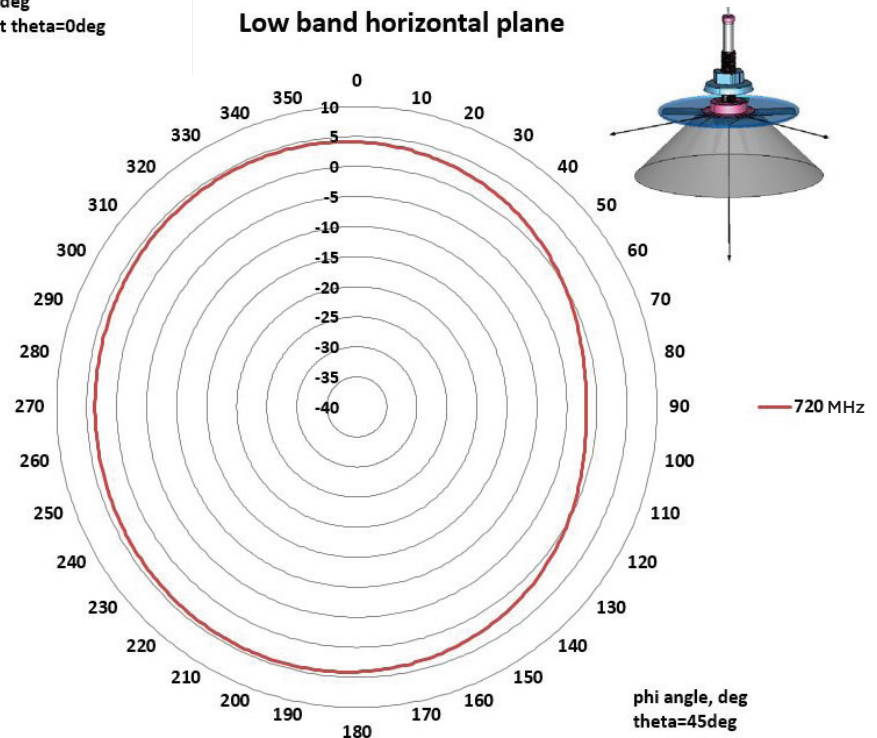
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Radiation Patterns for
DASUTCCR500NF,
DASUTCCR500MD
and DASUTCCR5004310
i.e. antennas WITH
Reflector DASUTCCACC1

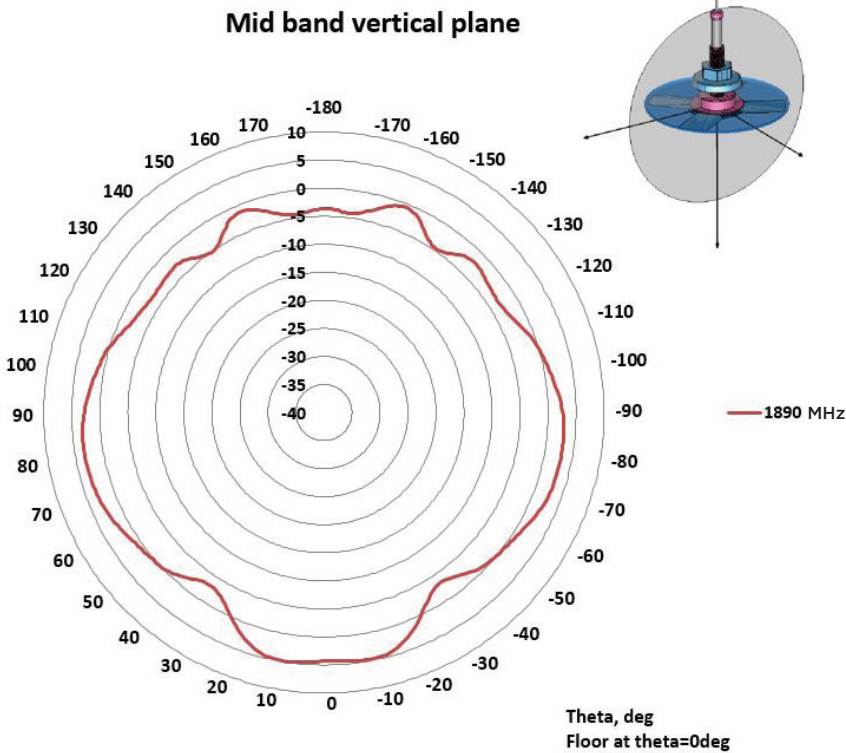


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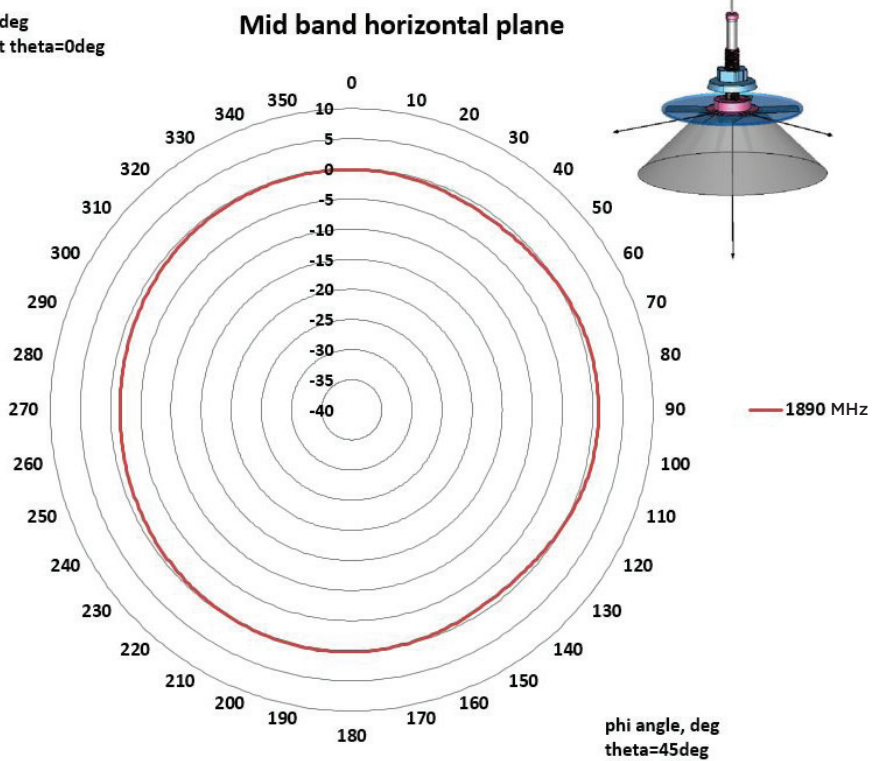
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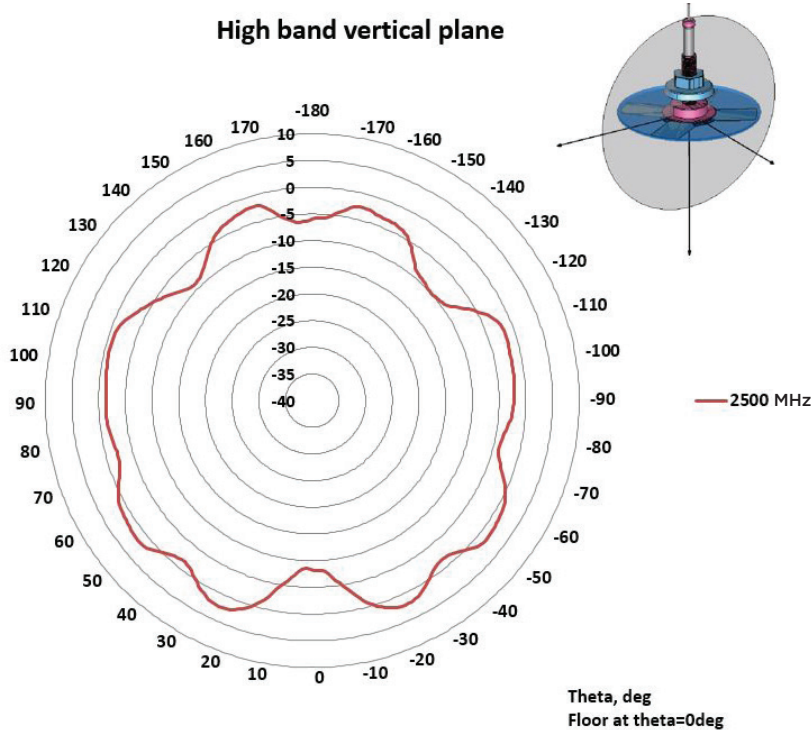


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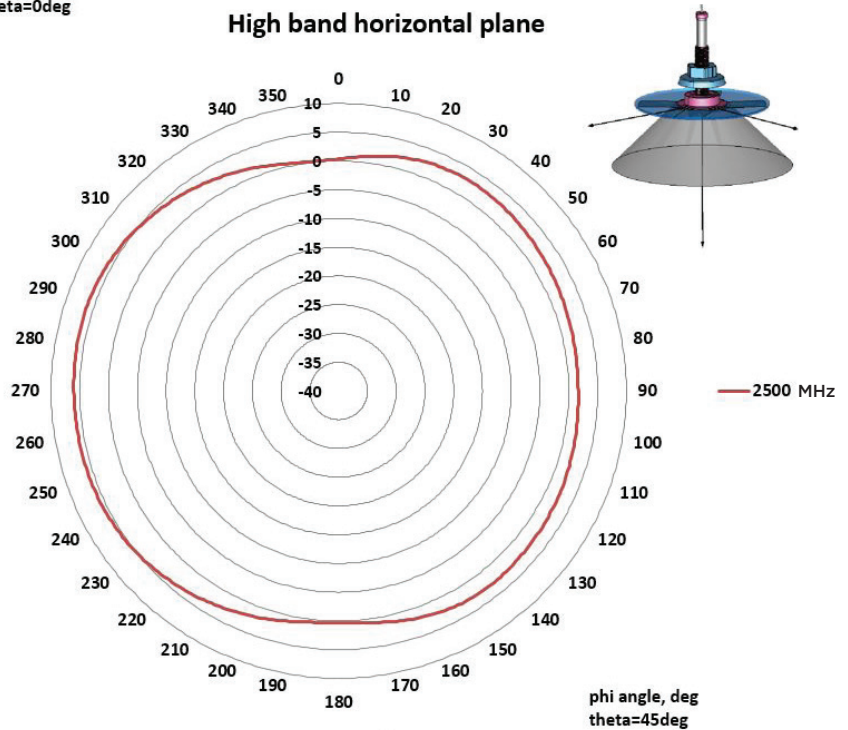
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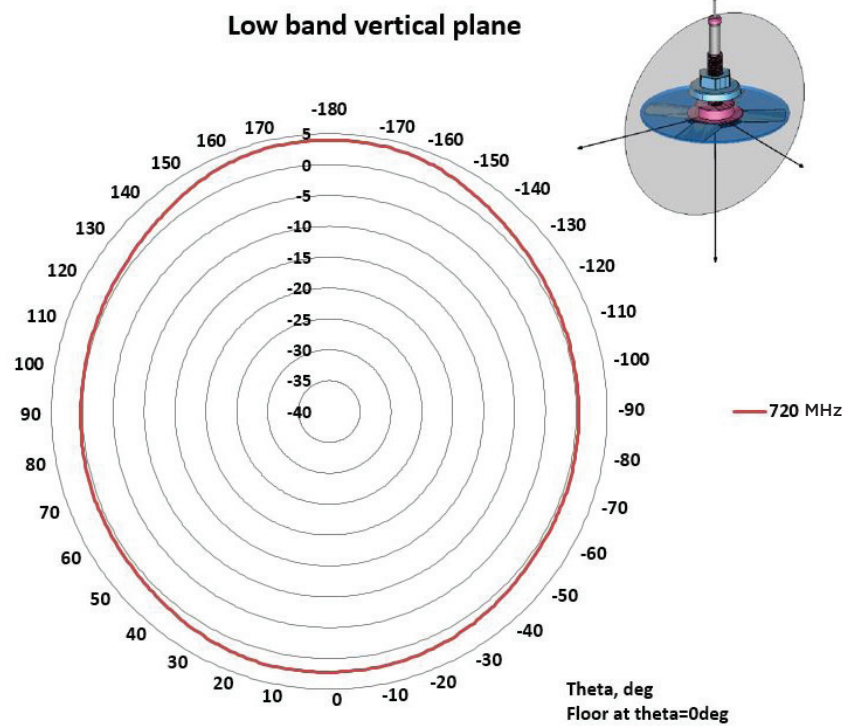


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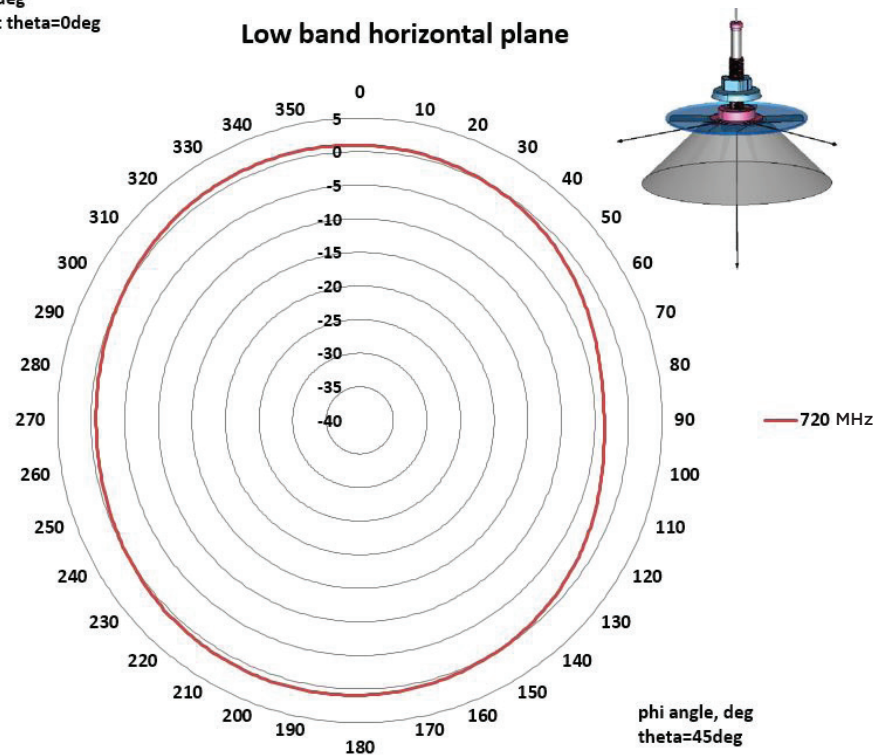
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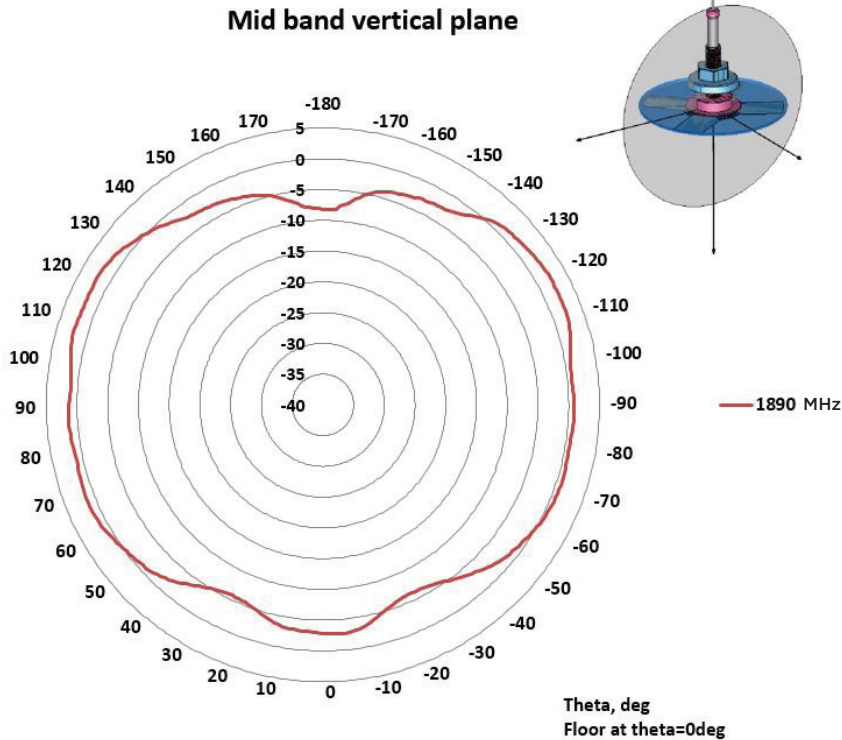


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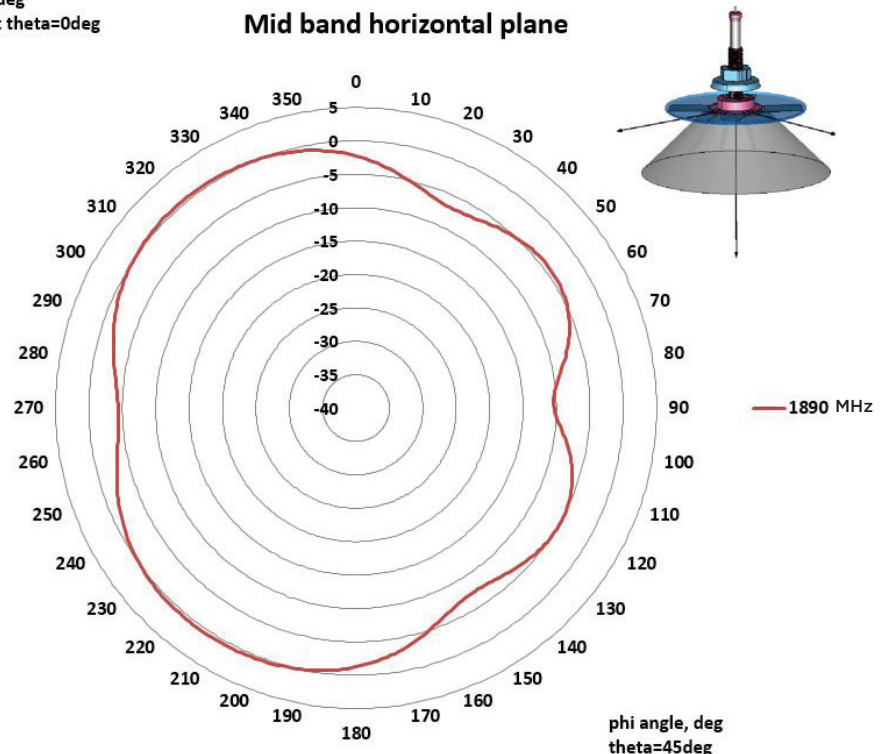
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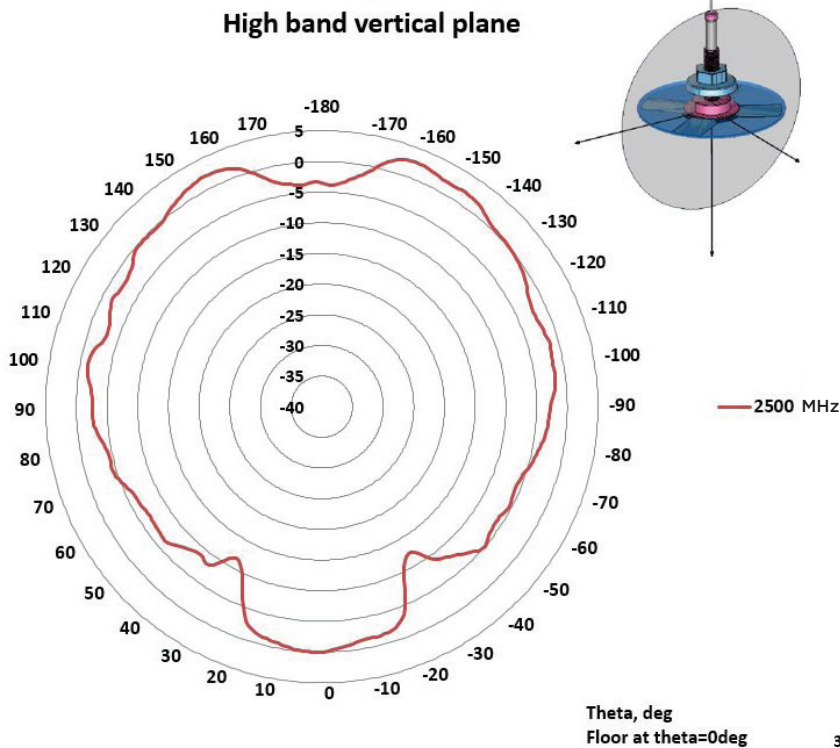


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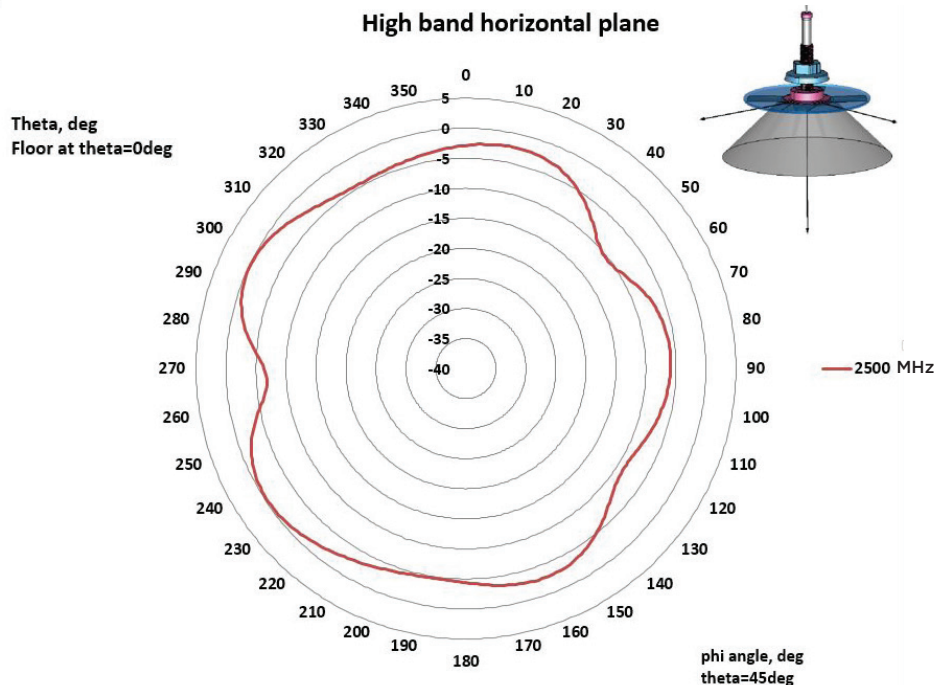
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For More Information

Pulse Worldwide Headquarters
12220 World Trade Drive
San Diego, CA 92128
U.S.A.

Tel: 858 674 8100
Fax: 858 674 8262

Larsen Brand Antennas
3611 NE 112th Avenue
Vancouver, WA 98682
USA

Tel: 360 944 7551
Fax: 360 944 7556

Europe Headquarters
Pulse GmbH & Co, KG
Zeppelinstrasse 15
Herrenberg, Germany

Tel: 49 7032 7806 0
Fax: 49 7032 7806 135

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road, (#29 Bldg, 4th Phase)
Suzhou New District
Science & Tech Industrial Park
Jiangsu Province, Suzhou 215009 PR China

Tel: 86 512 6807 9998
Fax: 86 512 6809 8023



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