

Description: DAS, Ultra Thin, Low Clearance

Antenna

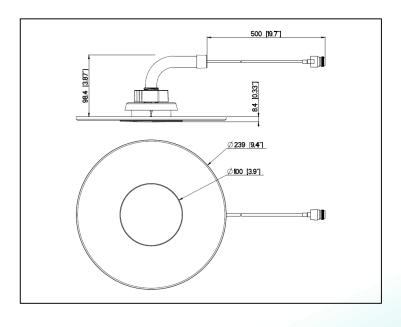
PART NUMBER: DASUTLC500NF

Series: Clarity



Features:

- 608-2700MHz
- Low PIM <-155dBc@2x20W
- L-bent stem to allow mounting on reduced height ceiling clearance
- Mounting height min 98.4mm



Applications:

- In building DAS systems
- Translucent radiator technology, ideal for areas with high visibility
- Ulra thin, only 4.3mm exposed under ceiling tile

All dimensions are in mm / inches

Issue: 1723

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

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

Pulse Part Number	Connector Type
DASUTLC500NF	N Female
DASUTLC500MD	4.1-9.5 Mini-DIN Female
DASUTLC5004310	4.3-10 DIN Female



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ELECTRICAL SPECIFICATIONS

Frequency	608-960/1695-2200/2300-2700MHz
Nominal Impedance	50Ω
VSWR (608-960MHz)	2: 1
VSWR (1695-2700MHz)	2: 1
Average Peak Gain (608-960MHz)	4dBi
Average Peak Gain (1695-2200MHz)	6dBi
Average Peak Gain (2300-2700MHz)	6dBi
Efficiency (608-960MHz)	70%
Efficiency (1695-2200MHz)	65%
Efficiency (2300-2700MHz)	60%
Horizontal plane(th=45deg)	Omni
HPBW Vertical plane (608-960MHz)	80° Typ
HPBW Vertical plane (1695-2200MHz)	60° Typ
HPBW Vertical plane (2300-2700MHz)	60° Typ
Maximum power input	40W
PIM at 2x20W	<-155dBc



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ELECTRICAL SPECIFICATIONS

Connector type N-female,

4.1-9.5 Mini-DIN female or

4.3-10 DIN female

Cable type Dia. 0.16" low loss,

Low PIM,

Plenum Rated

Cable length [Inches/mm] 19.7"/500mm





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MECHANICAL SPECIFICATIONS

Plastic radome UV Protected, UL94 V-0

Color Translucent (clear)

Weight 900 g

Mounting Ceiling

Mounting Hole [Inches / mm] 2 ½"-2 ¾" / 64-70 mm

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

-40~+85° C





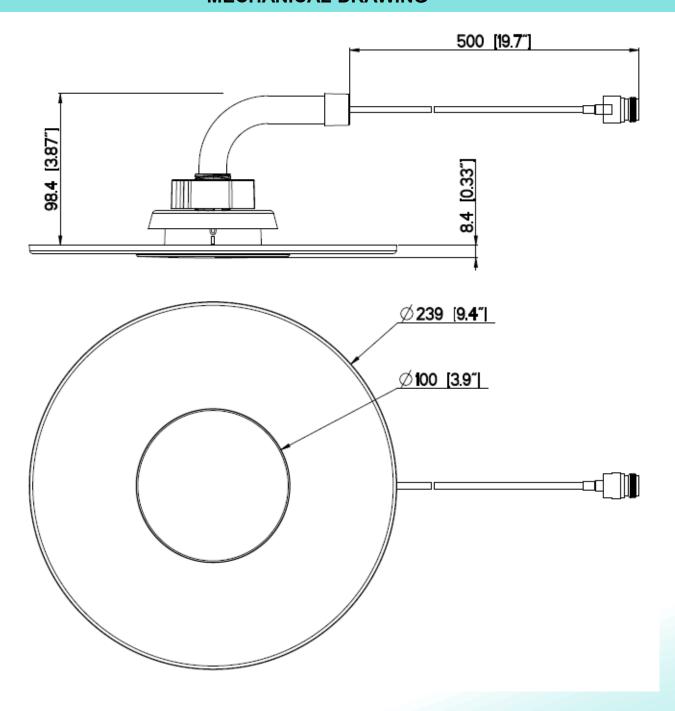
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MECHANICAL DRAWING





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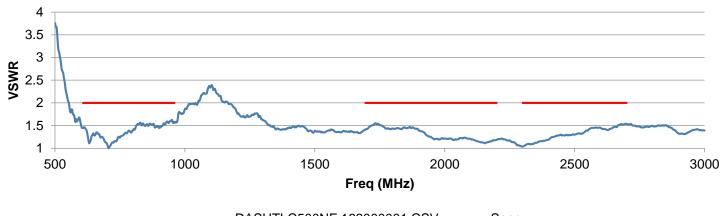
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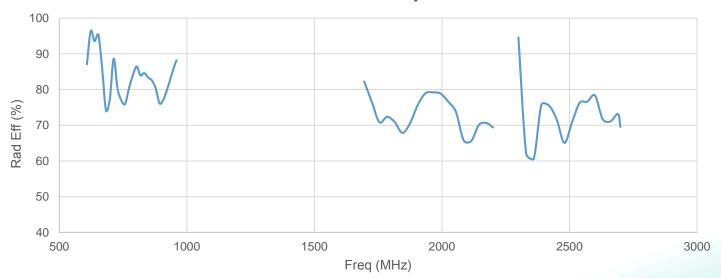
CHARTS

DASUTLC500NF, DASUTLC500MD and DASUTLC5004310 i.e. antennas



—DASUTLC500NF 162000001.CSV ——Spec

Total Efficiency





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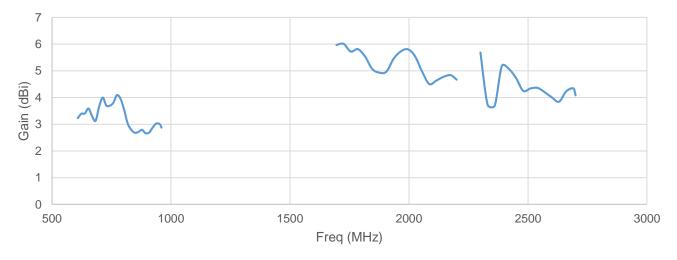
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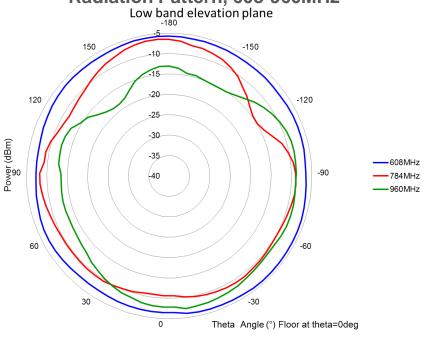
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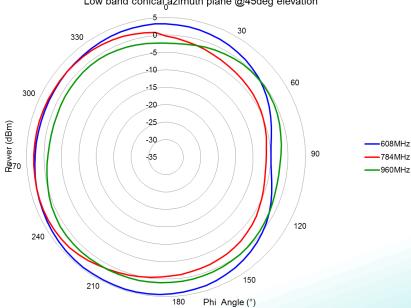
CHARTS

DASUTLC500NF, DASUTLC500MD and DASUTLC5004310 i.e. antennas

Radiation Pattern, 608-960MHz



Low band conical azimuth plane @45deg elevation



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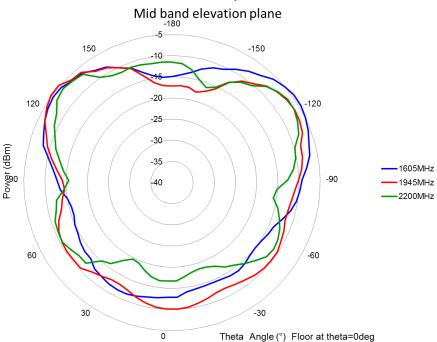
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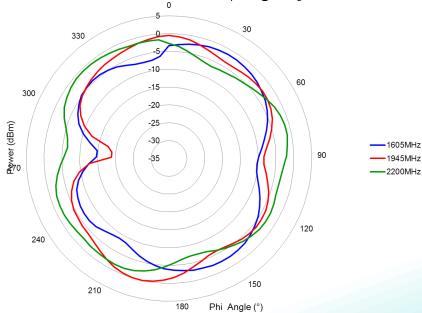
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CHARTS

Radiation Pattern, 1695-2200MHz



Mid band conical azimuth plane @45 deg elevation



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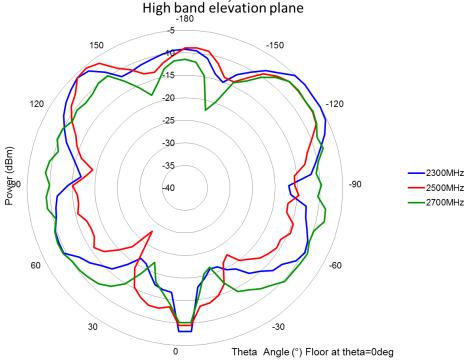
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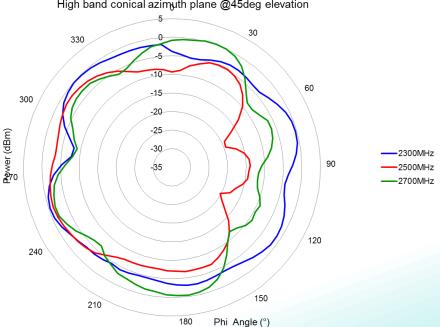
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CHARTS

Radiation Pattern, 2300-2700MHz



High band conical azimuth plane @45deg elevation



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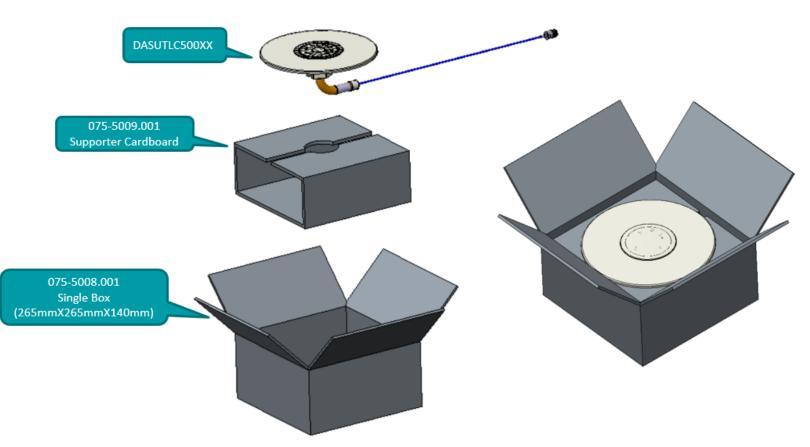
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PACKAGING



P.S.: Antenna DASUTLC500NF should be packed by PE bag(075-4692.001) first.



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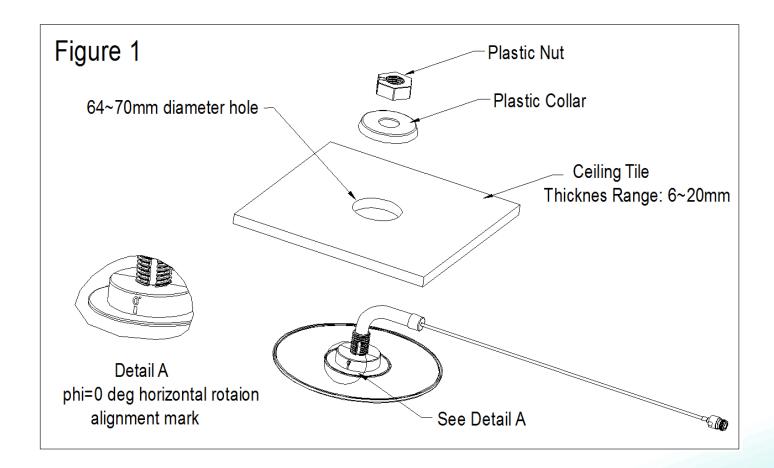
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INSTALLATION INSTRUCTION

Drill or cut a hole 2.5-2.75 inches (64-70 mm) diameter at the center of the ceiling tile or at the desired location. Slide the antenna cable/connector assembly through the hole. Slide the Collar and Nut onto the cable. Turn the Nut, tightening the antenna against the ceiling tile. See Figure 1 and Figure 2



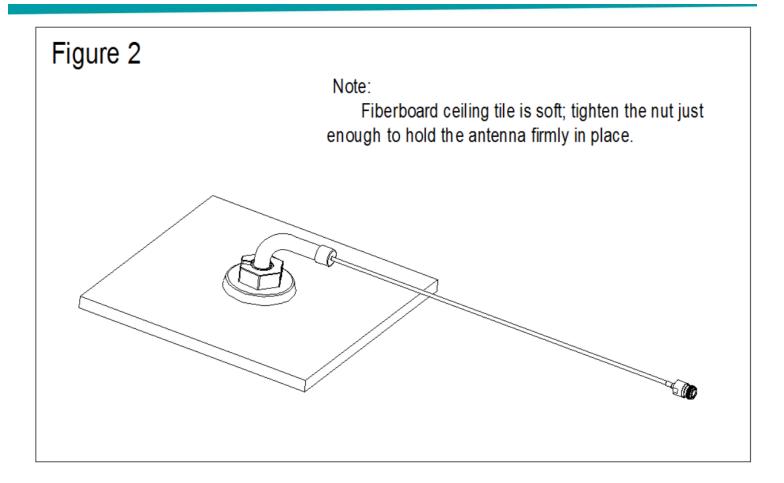


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ADDITIONAL NOTES:

Some customers may chose to take into consideration the antenna propagation orientation during their planning process. The Horizontal rotation alignment mark (Phi=0 deg), along with data from iBwave file will support this.

For Optimum Performance, Metal ceiling rails need to be a minimum 200mm from the - antenna center as the antenna requires 400mm x 400mm space free of any metal.



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CONNECTOR TORQUE REQUIREMENTS

N Female: Maximum Torque 6.2-9.74 in-lbs (0.7-1.1Nm)

Mini-DIN: Maximum torque 12-16 ft Lbs (17-22Nm) 4.3-10 DIN: Maximum torque 45-70 in-lbs (5-8Nm)

