

Description: DAS, Ultra Thin, Low Clearance Antenna

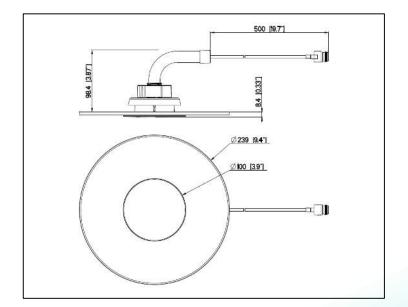
Series: Clarity

PART NUMBER: DASUTLC500NF



Features:

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



All dimensions are in mm / inches

Issue: 1723

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Applications:

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



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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

608-960/1695-2200/2300-2700MHz Frequency Nominal Impedance 50Ω 2:1 VSWR (608-960MHz) VSWR (1695-2700MHz) 2:1 Average Peak Gain (608-960MHz) 4dBi 6dBi Average Peak Gain (1695-2200MHz) Average Peak Gain (2300-2700MHz) 6dBi 70% Efficiency (608-960MHz) 65% Efficiency (1695-2200MHz) Efficiency (2300-2700MHz) 60% Horizontal plane(th=45deg) Omni 80° Typ HPBW Vertical plane (608-960MHz) 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]

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19.7"/500mm



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MECHANICAL SPECIFICATIONSPlastic radomeUV Protected, UL94 V-0ColorTranslucent (clear)Weight900 gMountingCeilingMounting Hole [Inches / mm]2 ½"-2 ¾" / 64-70 mm

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

-40~+85° C



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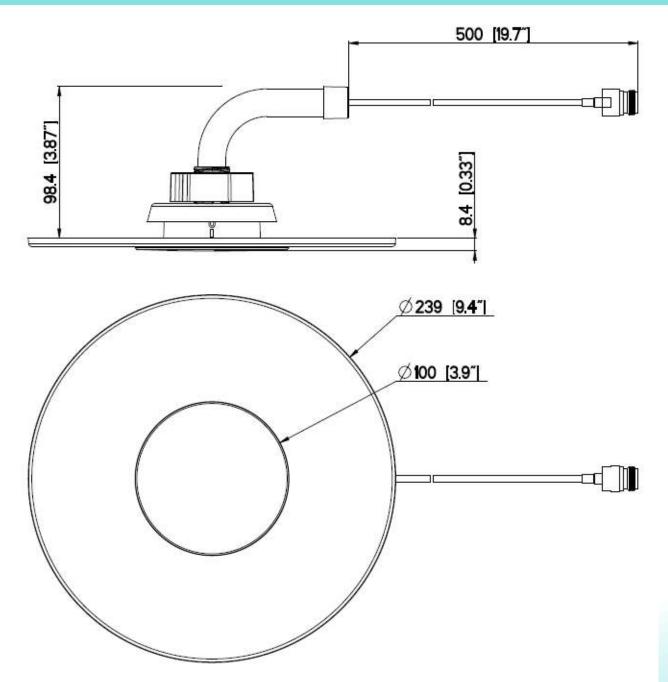
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MECHANICAL DRAWING



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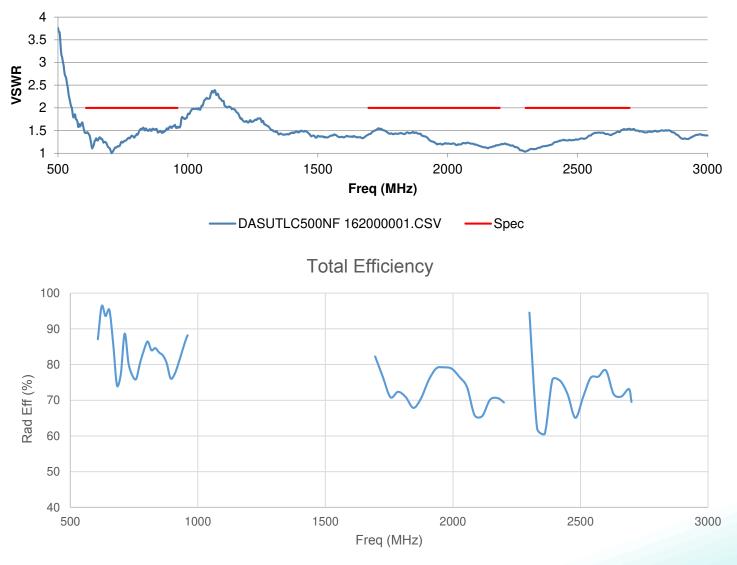
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CHARTS

DASUTLC500NF, DASUTLC500MD and DASUTLC5004310 i.e. antennas



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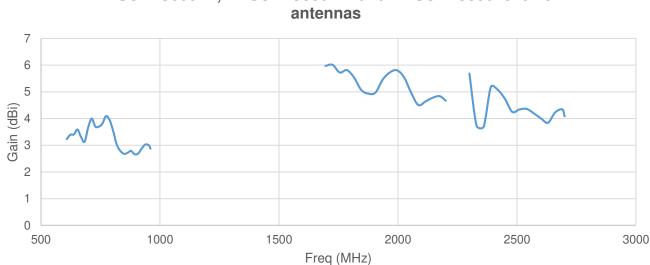
TECHNICAL DATA SHEET

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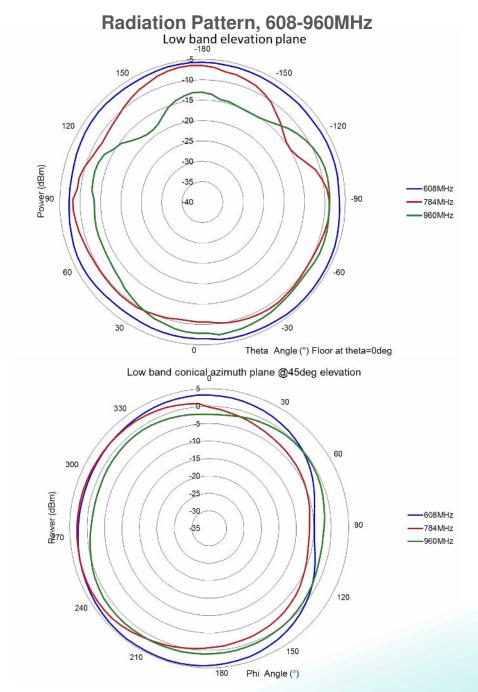
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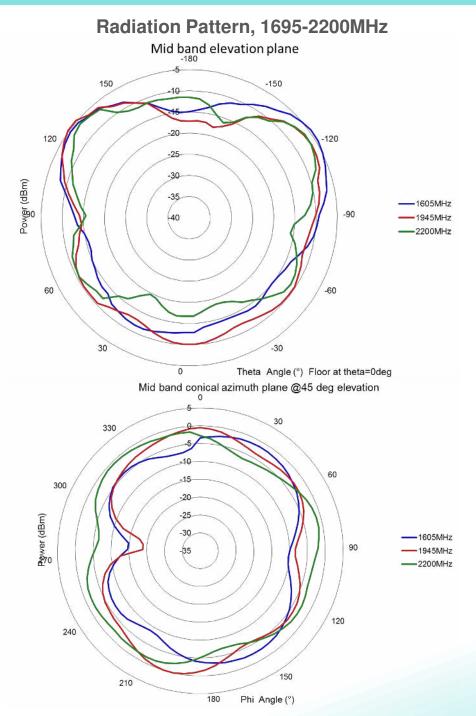


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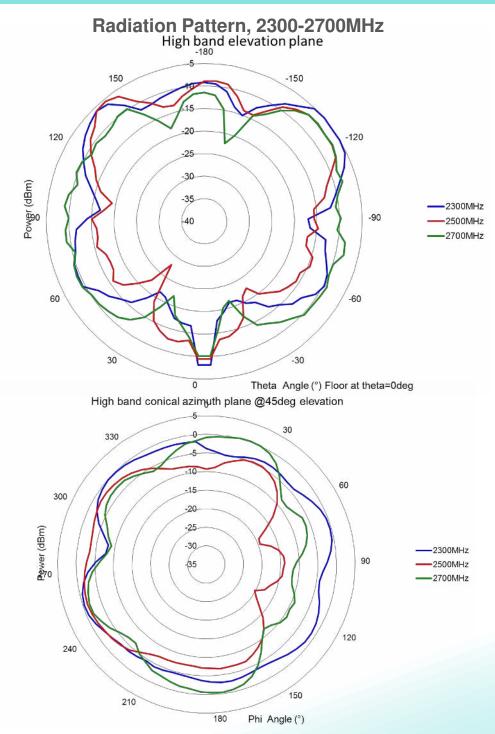
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ROHS 11

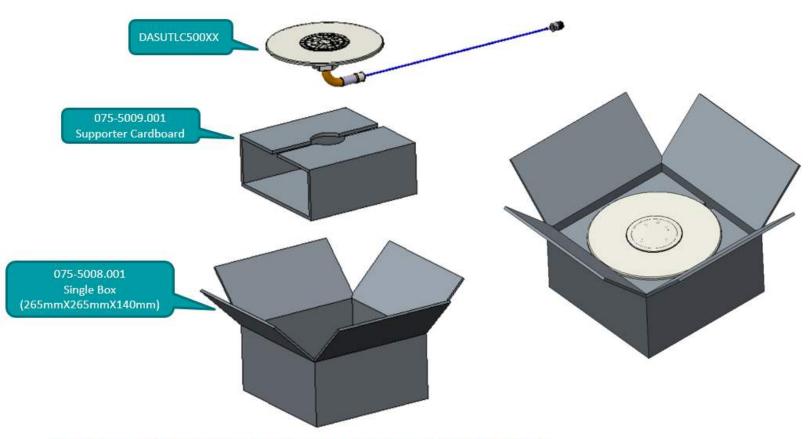


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PACKAGING



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

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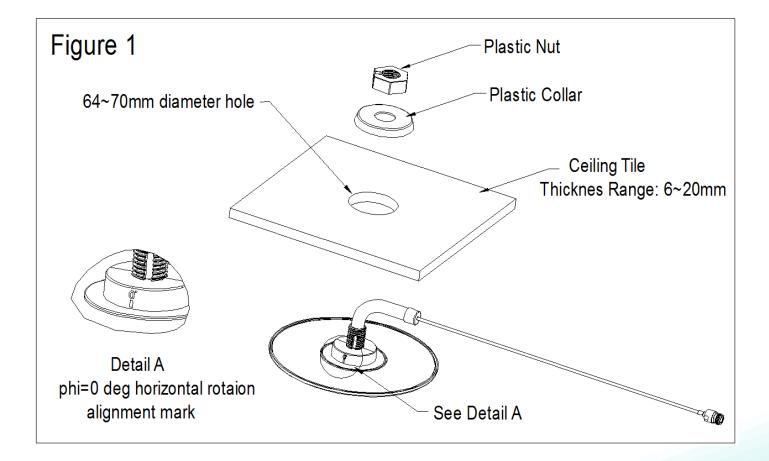
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INSTALLATION INSTRUCTION

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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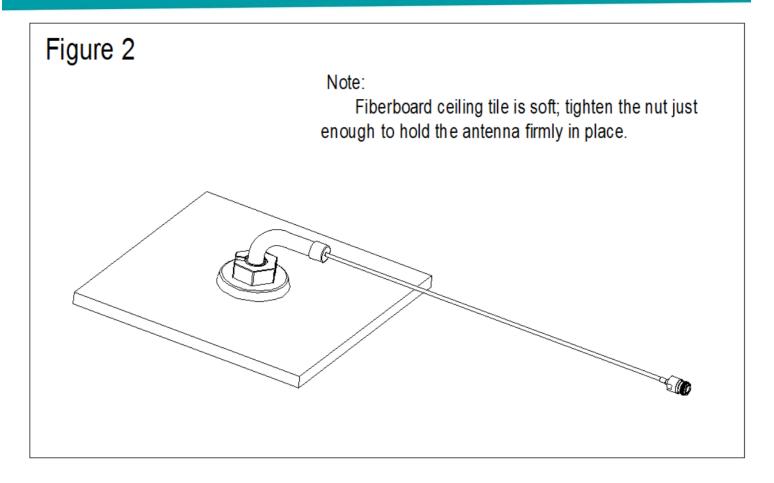




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ADDITIONAL NOTES:

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)

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