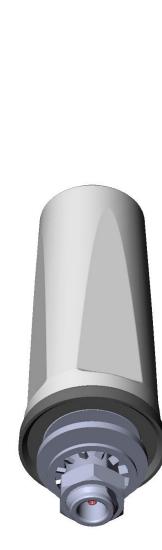


**Series: Low Profile Transit** 

PART NUMBER: LPT600/71DMN & LPT600/71DMNW





### **Features:**

- 617-960/1710-7125 MHz
- 4G / 5G (FR1), Dual Band WiFi Support
- Includes Band 71 (617- 698 MHz)
- Omni radiation pattern
- Average peak gain
  - 617-960 MHz 2dBi
  - 1710-7125 MHz 5.5dBi
- Average power rating 10W
- Size
  - Dia. 1.61" (40.9mm)
  - Height 3.77" (95.9mm)
  - W/ Connectors 4.77" (121.2mm)
- N-Female Connector
- LPT600/71DMN (Black) LPT600/71DMNW (White)

## **Applications:**

- CBRS Bands 42 and 48 (3.4-3.7 GHz)
- Utility boxes
- Smart metering
- IoT Devices

### Issue: 2047

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Pulse Worldwide Headquarters 15255 Innovation Drive #100 San Diego, CA 92128 USA Tel:1-858-674-8100 Pulse/Larsen Antennas 18110 SE 34<sup>th</sup> 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,4<sup>th</sup> Phase Suzhou New District Jiangsu Province, Suzhou 215009 PR China Tel: 86 512 6807 9998



**Series: Low Profile Transit** 

PART NUMBER: LPT600/71DMN & LPT600/71DMNW

### **ELECTRICAL SPECIFICATIONS**

Antenna type*	Monopole
Frequency	617-960/1710-7125 MHz
Nominal Impedance	50 Ω
VSWR (617-960/1710-7125)	3:1/2.5:1
Average peak gain (617-960/1710-7125)	2/5.5 dBi
Average efficiency (617-960/1710-7125)	83/85 %
Radiation Pattern	Omni
HPBW Vertical Plane (617-960/1710-7125)	65/40 °
Polarization	Vertical
Average Power rating	10 W
Radiation Pattern HPBW Vertical Plane (617-960/1710-7125) Polarization	Omni 65/40 ° Vertical

MECHANICAL SPECIFICATIONS

Diameter / height Weight Antenna Color / Material Connector Mounting (required) Installation torque 1.61" / 3.77" (40.9 / 95.9mm) .35lbs (160 g) Black or White / PET+PC N-Female Ø .63 (16mm) Hole 4-5 Ft/lbs (See page 3)

### **ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature Storage Temperature Ingress Protection RoHS-6 Compliant -40° to +85° C -40° to +85° C IP66 and IP67 Yes

### \* Measured on 12" (304.8mm) SQ ground plane

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**Series: Low Profile Transit** 

PART NUMBER: LPT600/71DMN & LPT600/71DMNW

# **MECHANICAL DRAWING** Plastic radome 34.9 2x 1.375 Max [31.4] Ø1.24 Super seal gasket (Rubber) Flat washer Star washer Hex nut 5/8-24 N-Female Connector 97.8 95.9 3.85 3.77 [124.4] 4.90 [95.9] 3.77 28.6 1.13 40.9 Ø1.61 [13.5] .53 Flats Antenna shown with Hex nut torqued to 4-5Ft-lbs

### All dimensions are in inches / mm

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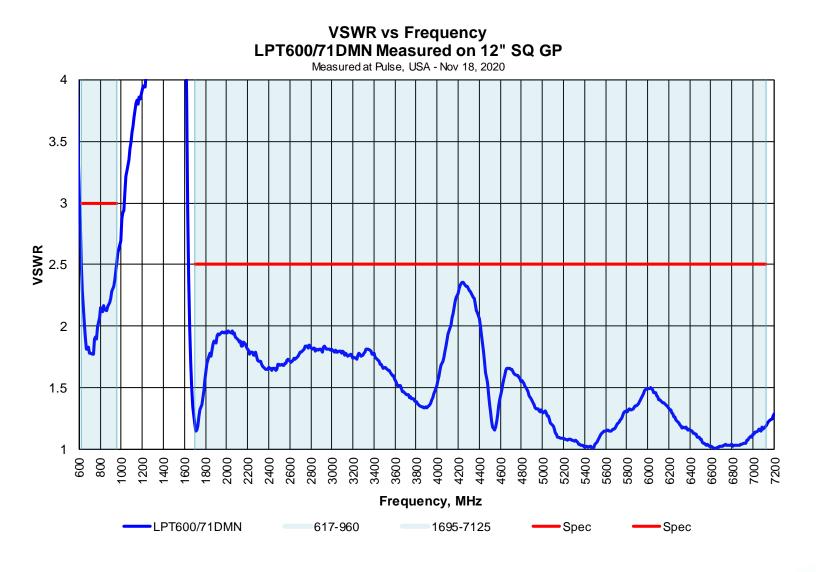
3



**Series: Low Profile Transit** 

PART NUMBER: LPT600/71DMN & LPT600/71DMNW

### CHARTS



\* Measured on 12" (304.8mm) SQ ground plane

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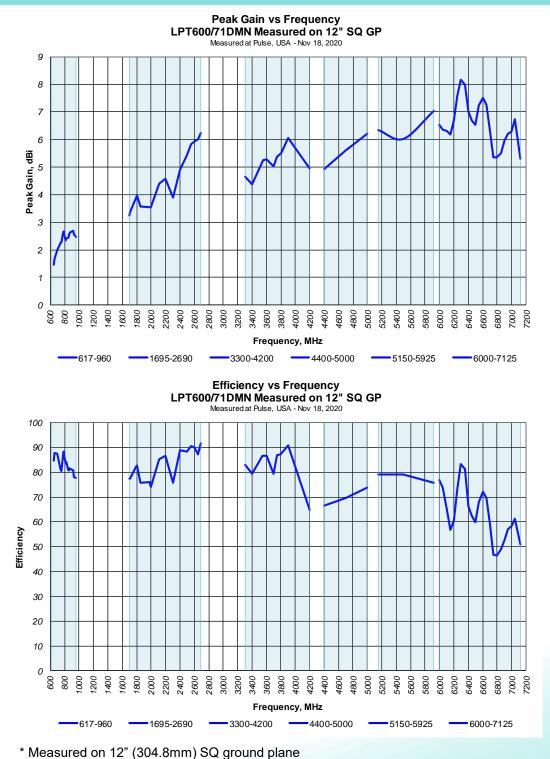
4



**Series: Low Profile Transit** 

PART NUMBER: LPT600/71DMN & LPT600/71DMNW

### CHARTS



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**Series: Low Profile Transit** 

PART NUMBER: LPT600/71DMN & LPT600/71DMNW

#### **CHARTS** 7 XY plane @ 617-960MHz 0 617 330 30 Avg (dBi) = -0.60 Peak (dBi) = -0.55Avg -3 (deg) = 360 -10 814 300 60 -15 Avg (dBi) = -1.22 Peak (dBi) = -1.03 -20 Avg -3 (deg) = 360 -25 Gain (dBi) 960 -30 Avg (dBi) = -1.30 Peak (dBi) = -0.76 270 90 ·85 Avg -3 (deg) = 360 120 240 210 150 617 814 960 Phi Angle (°) 180 XY plane @ 1695-2690MHz 0 1695 330 30 Avg (dBi) = -1.47 Peak (dBi) = -0.96 Avg -3 (deg) = 360 10 2200 300 60 -15 Avg (dBi) = -1.67 Peak (dBi) = -0.86 -20 Avg - 3 (deg) = 360-25 Gain (dBi) 2690 -30 Avg (dBi) = -1.71 Peak (dBi) = -0.92 270 90 85 Avg - 3 (deg) = 360240 120 210 150 1695 2200 2690 Phi Angle (°) 180

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\* Measured on 12" (304.8mm) SQ ground plane



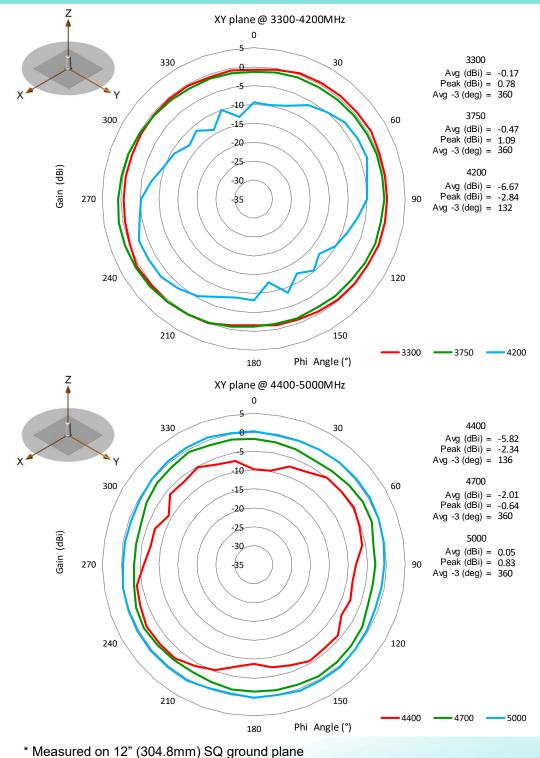
6



**Series: Low Profile Transit** 

PART NUMBER: LPT600/71DMN & LPT600/71DMNW

CHARTS



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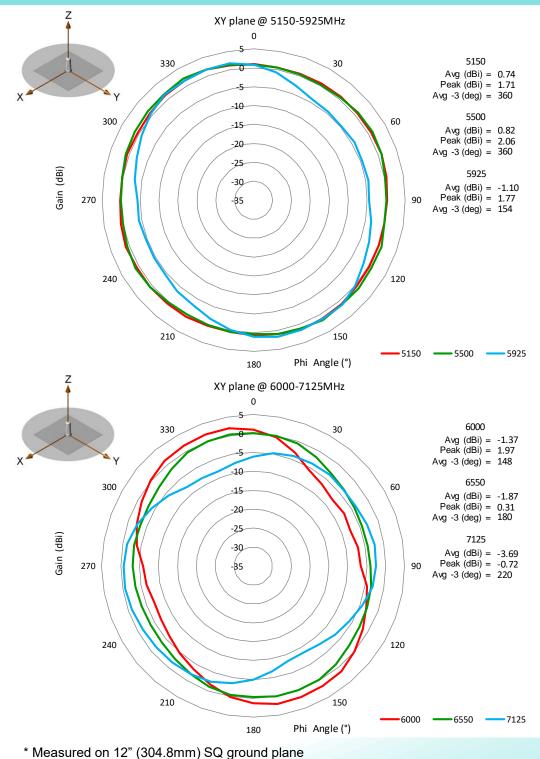
7



**Series: Low Profile Transit** 

PART NUMBER: LPT600/71DMN & LPT600/71DMNW

CHARTS



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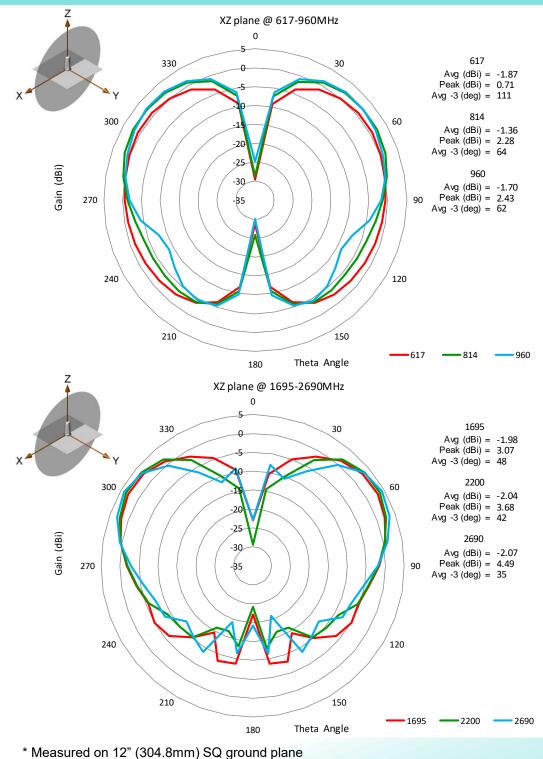
8



**Series: Low Profile Transit** 

PART NUMBER: LPT600/71DMN & LPT600/71DMNW

CHARTS



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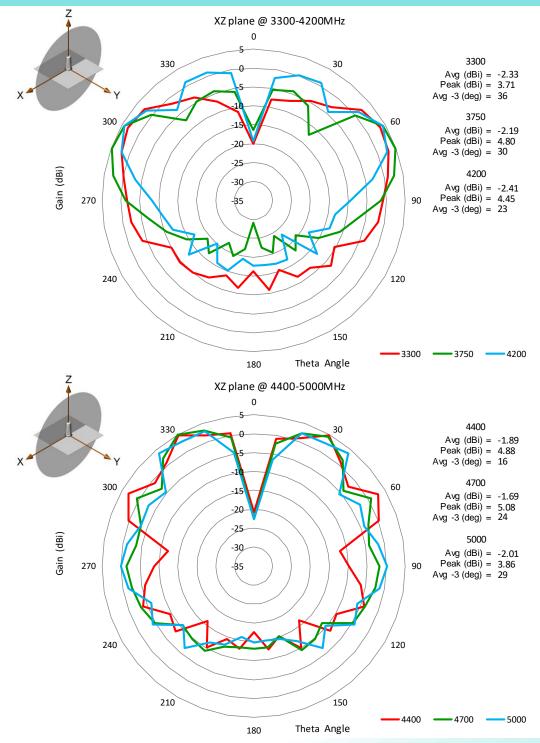
9



**Series: Low Profile Transit** 

PART NUMBER: LPT600/71DMN & LPT600/71DMNW

CHARTS



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\* Measured on 12" (304.8mm) SQ ground plane

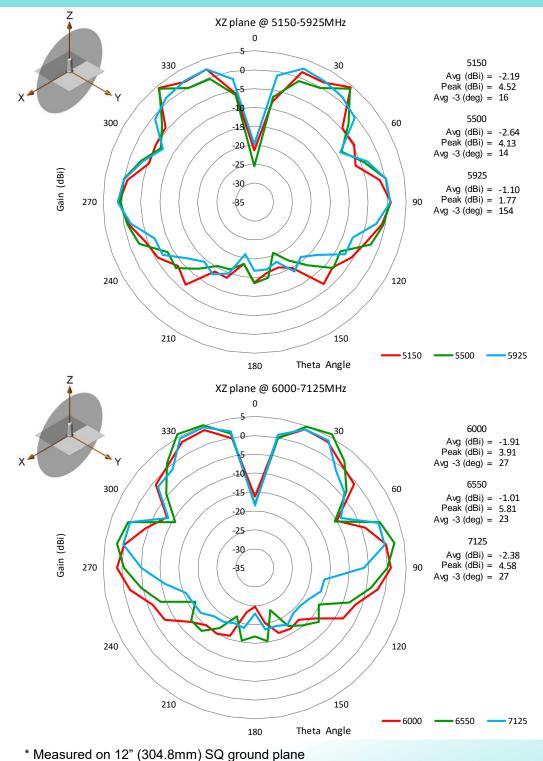
ROHS 10



**Series: Low Profile Transit** 

PART NUMBER: LPT600/71DMN & LPT600/71DMNW

**CHARTS** 



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**Series: Low Profile Transit** 

PART NUMBER: LPT600/71DMN & LPT600/71DMNW

### PACKAGING

- 1 antenna packed in a plastic bag
- 1 label on each plastic with part number, description, date code.



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