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Outdoor
5G/4G Direct Mount Salt Shaker Monopole Antenna
LPTDCG600/71DMN and LPTDCG600/71DMNW – 617 to 7125 MHz

Pulse a YAGEO company



Features & Applications:

- *WiFi 6E, 4G/5G FR1*
- *Includes Band 71 (617-698MHz) and CBRS Bands 42 and 48 (3.4-3.7GHz)*
- *Utility boxes*
- *Smart metering*
- *IoT Devices*

Electrical specifications @ 25° C – Operating Temperatures – 40°C to +85°C					
Frequency Bands – 617-960/1710-2700/3300-4200/4400-5000/5150-5925/6000-7125 MHz					
Antenna type[2]	**Nominal Impedance**	**Polarization**	**Radiation pattern**	**Power withstanding**	**DC Ground**
Monopole	50Ω	Vertical	Omni	10W	Yes

Frequency (MHz)	**617-960**	**1710-2700**	**3300-4200**	**4400-5000**	**5150-5925**	**6000-7125**
VSWR	3:1	2:1	2.5:1	2.5:1	2:1	2:1
Average Peak Gain (dBi)	2.3	4.7	5.0	5.7	6.1	6.9
Average Efficiency (%)	82	84	81	67	75	67
HPBW Vertical Plane (°)	65	43	31	25	28	26

Mechanical Specifications				
Orderable PN: LPTDCG600/71DMN or LPTDCG600/71DMNW[3]				
Size (Diameter x Height)	**Color**	**Weight**	**Connector Type**	**Fixing System[4]**
40.9 (1.61”) x 95.9 (3.77”) mm	Black or White	163grms (0.36lbs)	N-Female	Direct Mount
Housing Material	**Ingress Protection**	**RoHS-6 Compliant**		
PET+PC, UV rated	IP67	Yes		

Notes:
1. Storage Temperature: -40°C to 85°C
2. Measured on 305mm (12”) SQ ground plane
3. LPTDCG600/71DMN comes in black, for white add the suffix W and PN becomes LPTDCG600/71DNMW
4. Ø15.9mm (0.625”) mounting hole required.

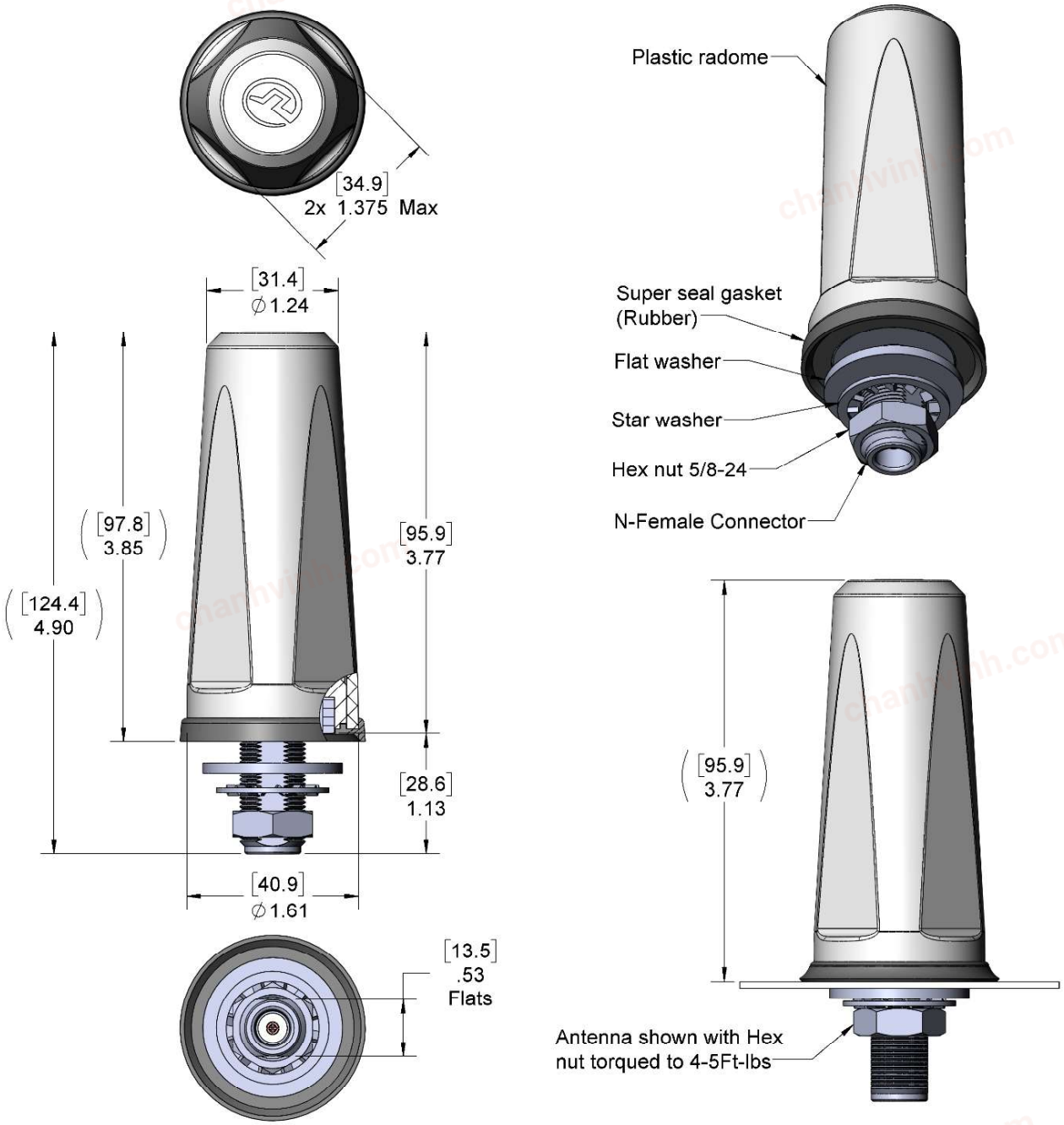
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Mechanical Drawing

LPTDCG600/71DMN (W)

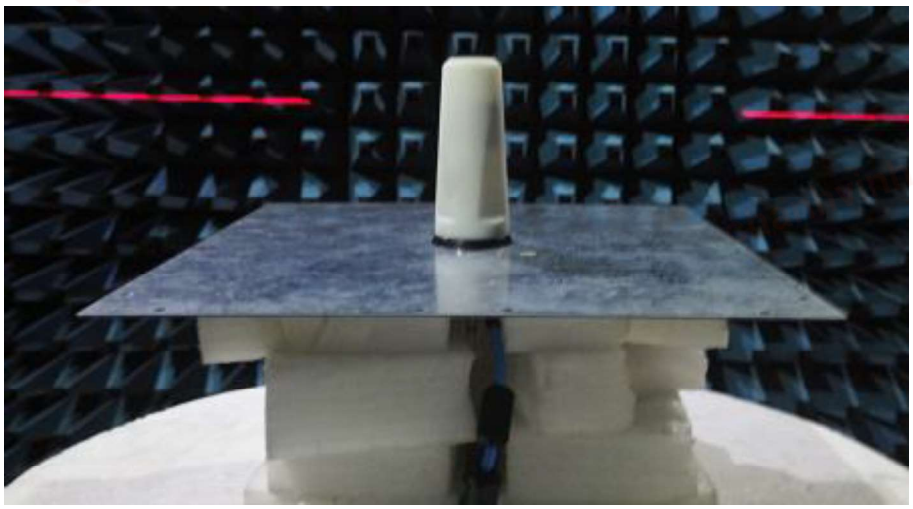


Dimensions: Inches (mm)
Unless otherwise specified, all tolerances are ±.010 (0.25mm)

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Test Setup

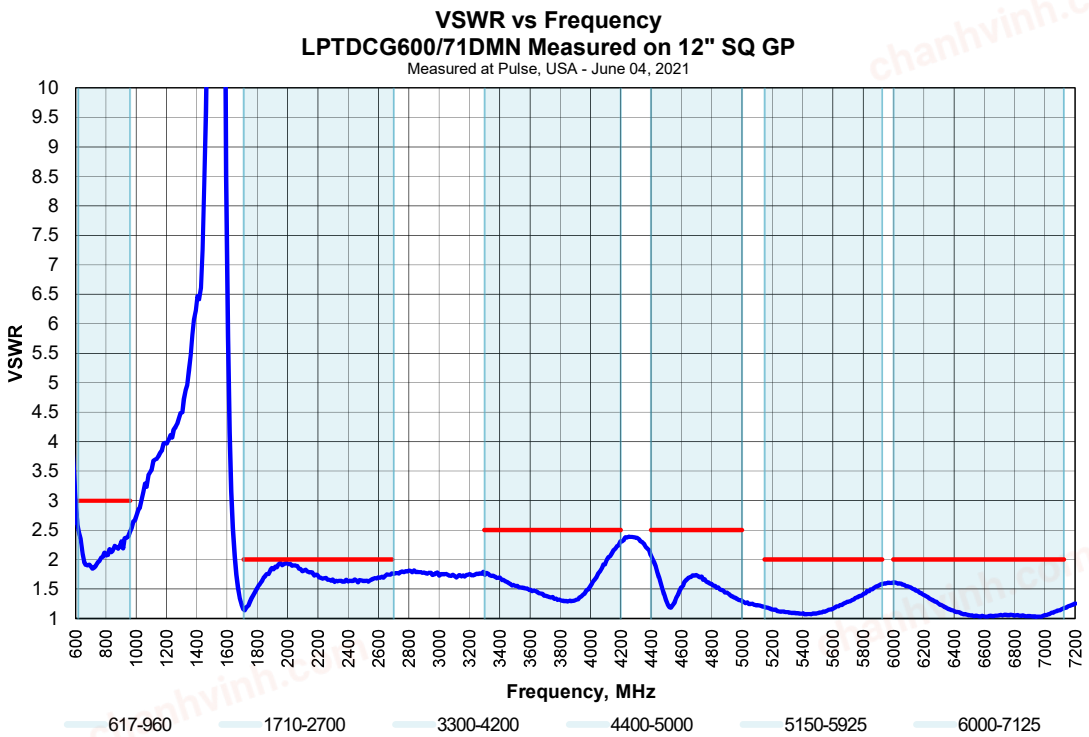
LPTDCG600/71DMN (W)



LPTDCG600/71DMN (W) antenna sample measured on 12'' (305mm) SQ ground plane.

Charts- VSWR

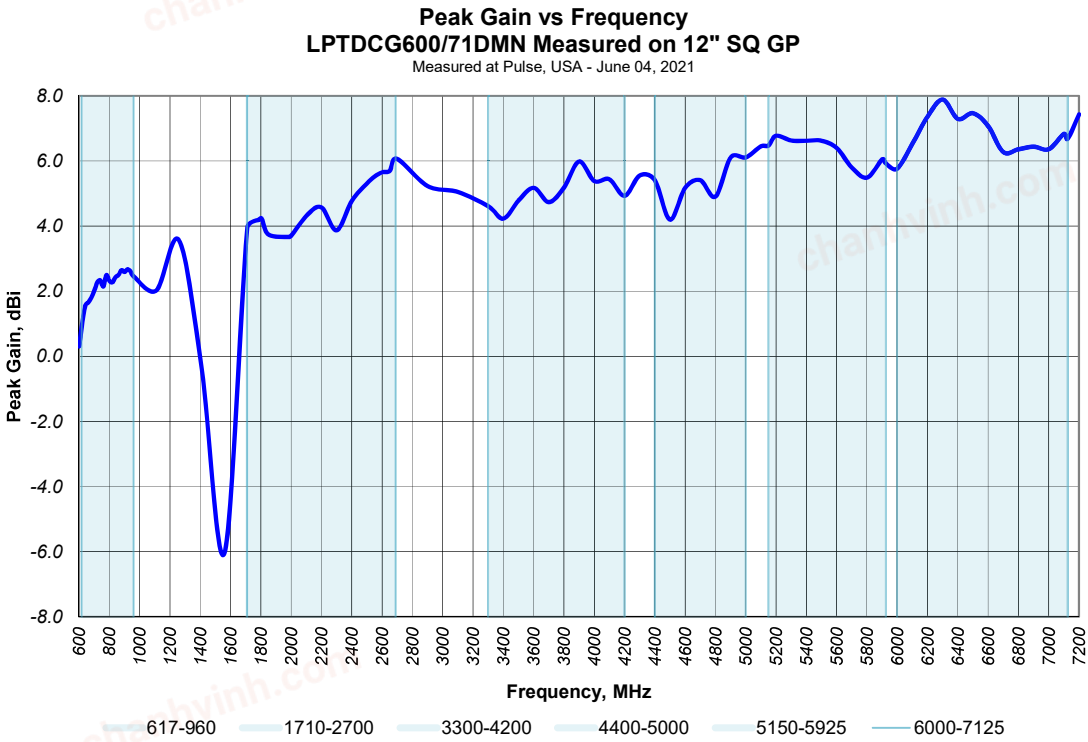
LPTDCG600/71DMN (W)

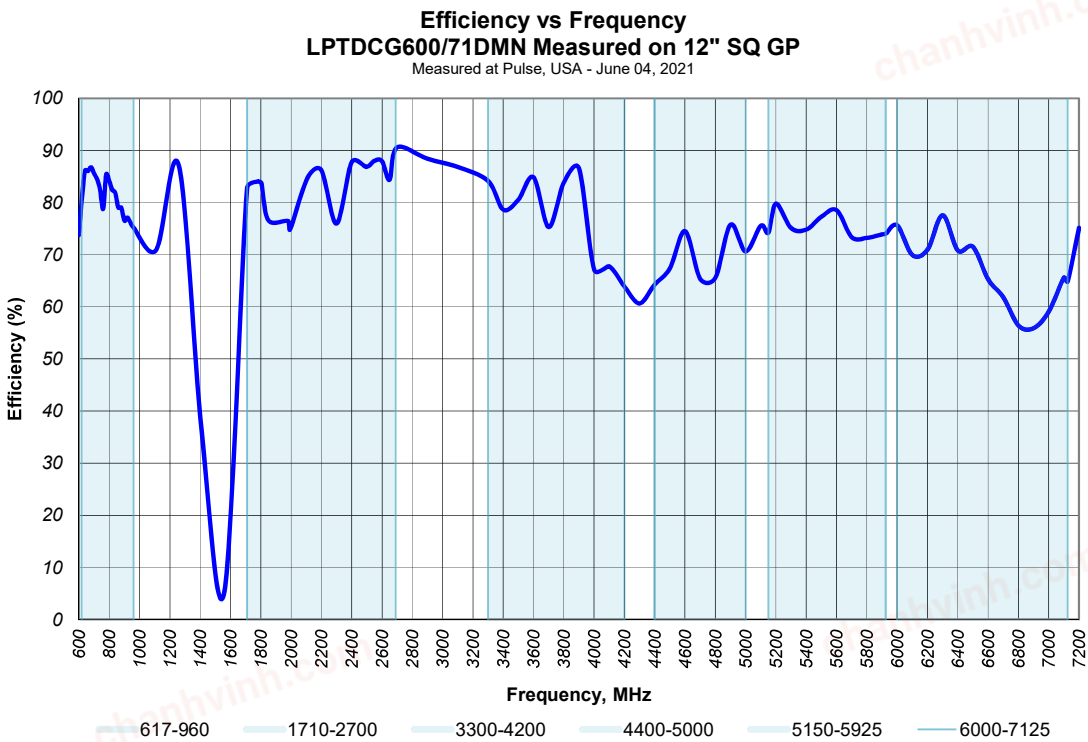


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Charts- Peak Gain and Efficiency

LPTDCG600/71DMN (W)





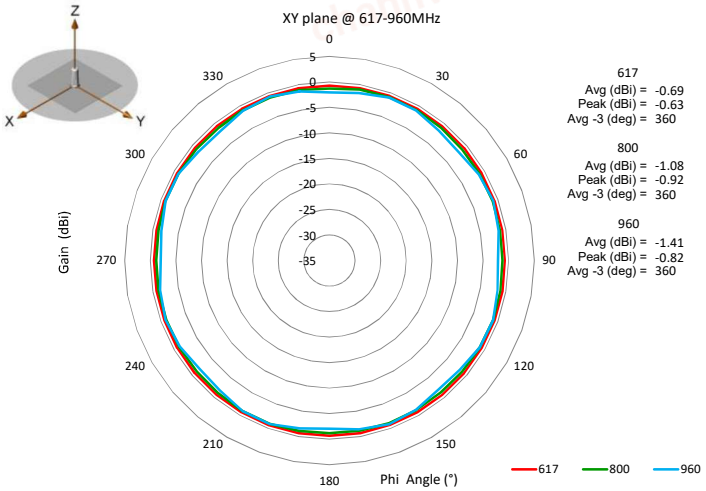
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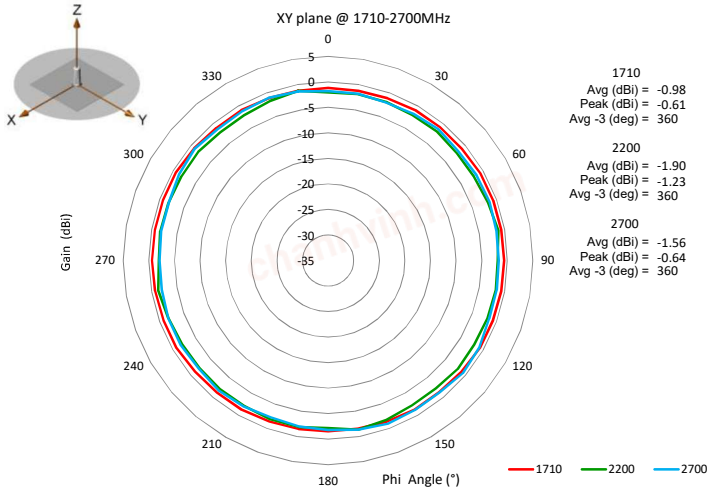
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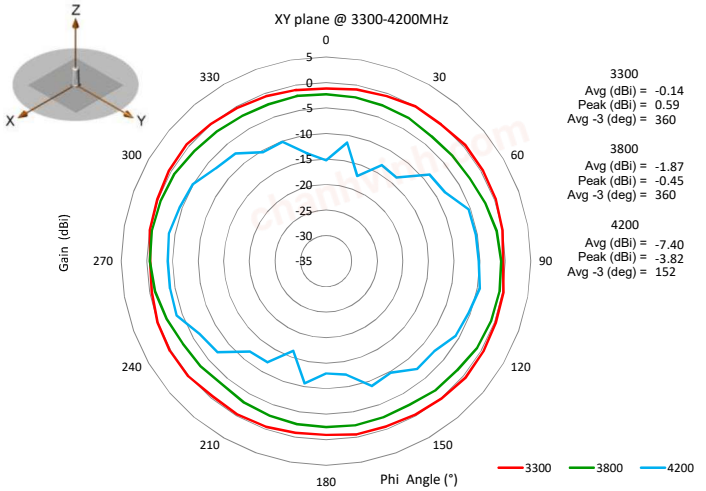
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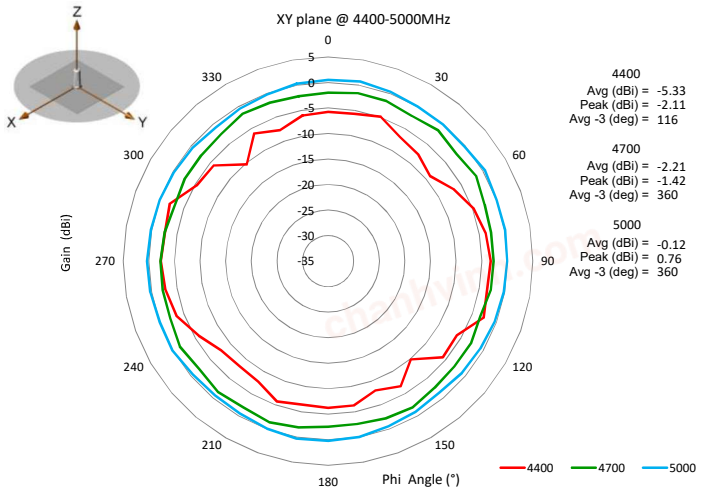
Charts- XY Gain Plots

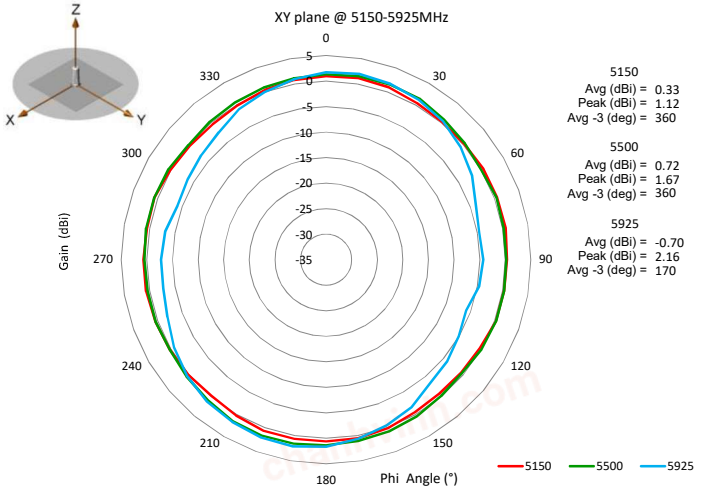
LPTDCG600/71DMN (W)

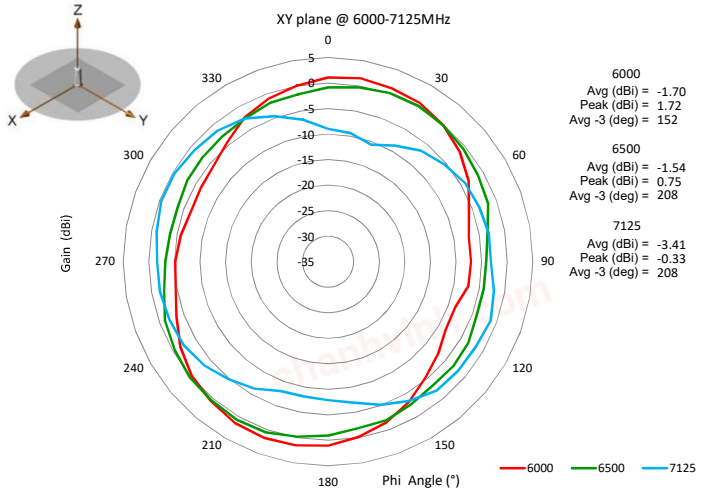








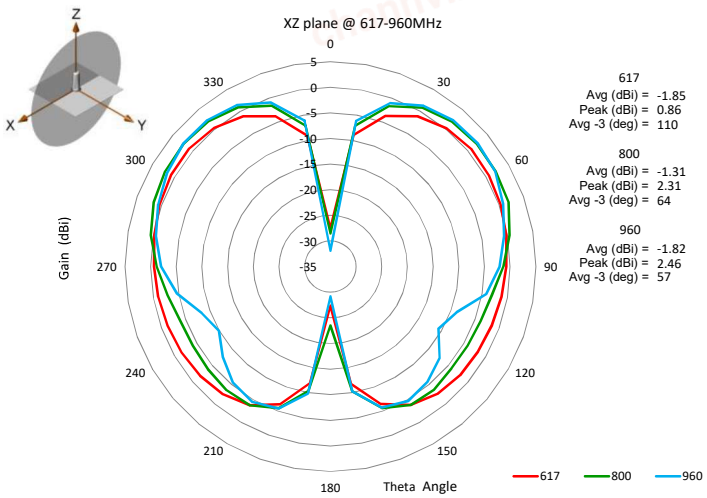


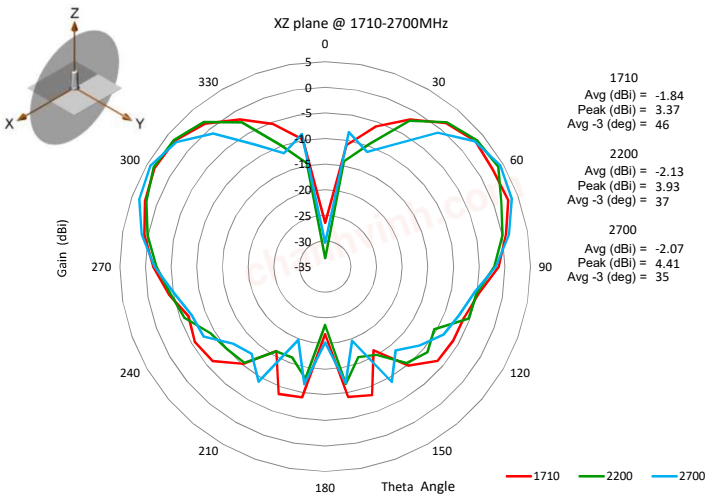


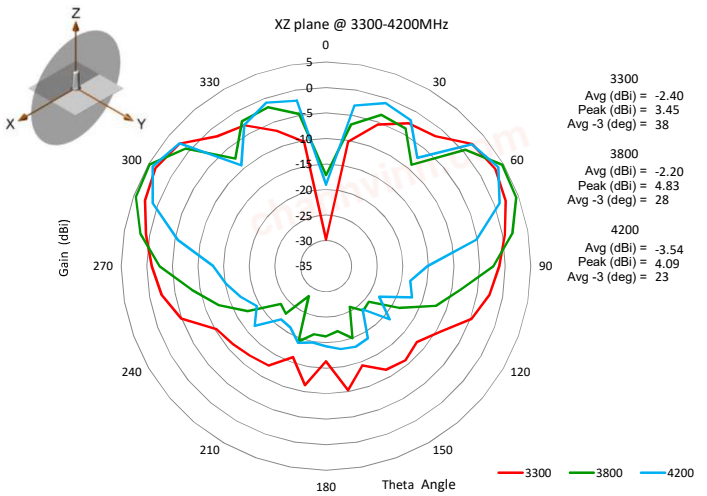
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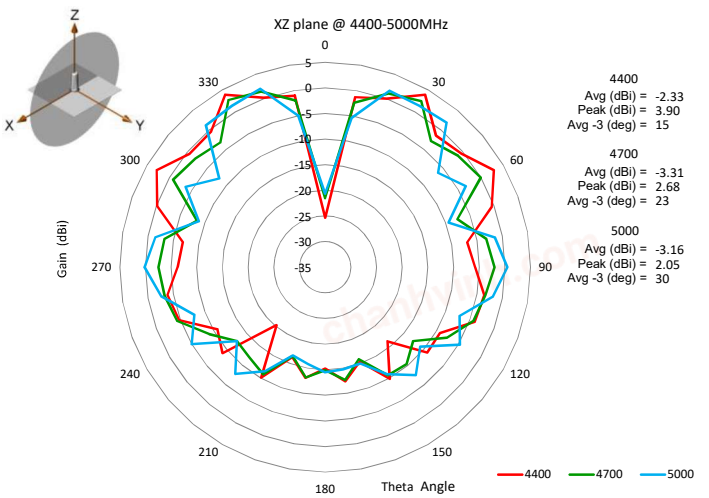
Charts – XZ Gain Plots

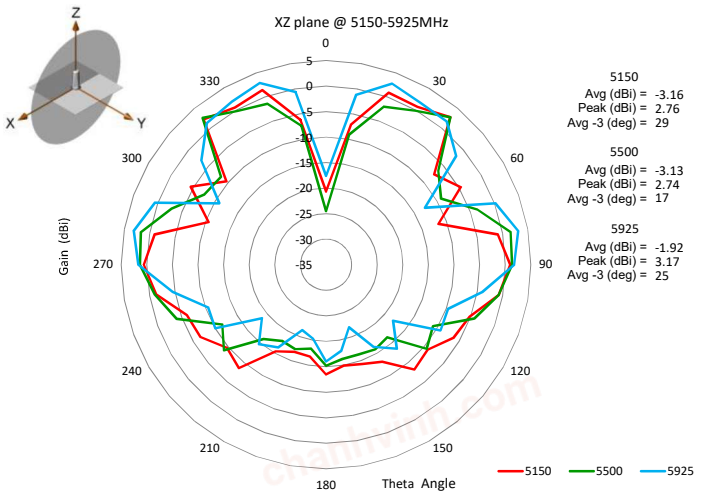
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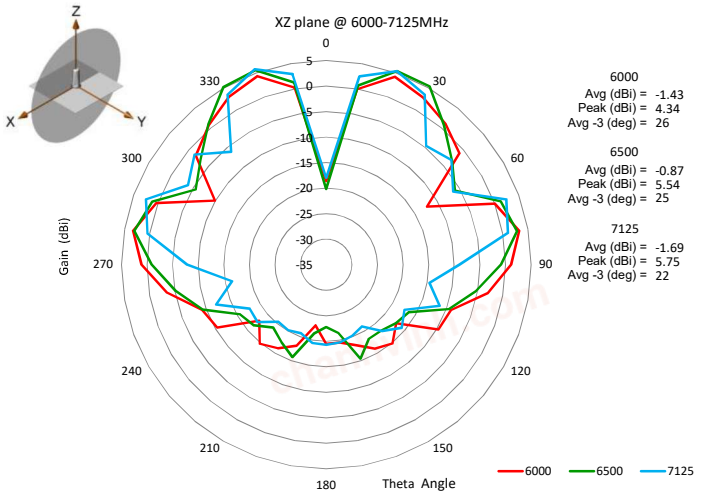












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Packaging

LPTDCG600/71DMN (W)

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

Additional Product Info

LPTDCG600/71DMN (W)

Family Products – LPT (Low Profile Transit)			
5G / 4G LPT Products			
Orderable PN	Connector Type	DC Ground (DCG)	Color
LPT600/71DMN (or LPT600/71DMNW)	N-Female	No	Black (or White)
LPTDCG600/71DMN (or LPTDCG600/71DMNW)	N-Female	Yes	Black (or White)
LPTNGP600/71DMN (or LPTNGP600/71DMNW)[1]	N-Female	No	Black (or White)
LPTNGPDC600/71DMN (or LPTNGPDC600/71DMNW)[1]	N-Female	Yes	Black (or White)
LPT600/71NM (or LPT600/71NMW)	N-Male	No	Black (or White)
LPTDCG600/71NM (or LPTDCG600/71NMW)	N-Male	Yes	Black (or White)
LPT600/71NMO (or LPT600/71NMOW)	NMO-Pogo	No	Black (or White)
LPTDCG600/71NMO (or LPTDCG600/71NMOW)	NMO-Pogo	Yes	Black (or White)

Notes:
1. 'NGP' stands for 'No Ground Plane'. LPTNGP600/71DMN or LPTNGP600/71DMNW is a ground independent antenna. Antenna was tuned without a ground plane.
2. Please contact sales for availability, lead time, and/or any special requests. Samples available upon request.

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