External / In-building
5G/4G Stick Monopole Antenna

W1696/W1697/W1696-M - 617 to 3800 MHz (Several 5G FR1 bands)



Applications:

- *Small form factor monopole*
- *4G LTE/LTE-A, 5G NR*
- *LTE CAT1M*
- *NBIoT*
- *CBRS US B48*
- *Gateways, Set Top boxes*
- *Telemetry, High speed data*
- *IoT and M2M solutions*

Electrical Specifications @ 25°C - Operating Temperature -30°C to +85°C[1]					
Frequency Bands: 617-960/1710-2690/3400-3800 MHz					
Antenna[2] Type	**Nominal Impedance**	**Return Loss**	**Radiation Pattern**	**Polarization**	**Power Withstanding**
Monopole	50Ω	per below	Omni	Linear	5W

Frequency	**617-960 MHz**	**1710-2690 MHz**	**3400-3800 MHz**
Return Loss	<-5 dB	<-5 dB	<-4 dB
Peak Gain	>-0.5 dBi	>1 dBi	>0 dBi
Efficiency	40%	45%	30%

Mechanical Specifications					
Orderable PN: W1696, W1696-M, W1697					
Part Number	**Size (Length * Dia)**	**Color**	**Weight**	**Connector Type**	**Ingress Protection**
W1696	49.6 * 10	Black	7.5grms	SMA Male	IP42
W1697	49.6 * 10	Black	7.5grms	RP - SMA Male	IP42
W1696-M	50 * 12	Black	7.8grms	SMA Male	IP65

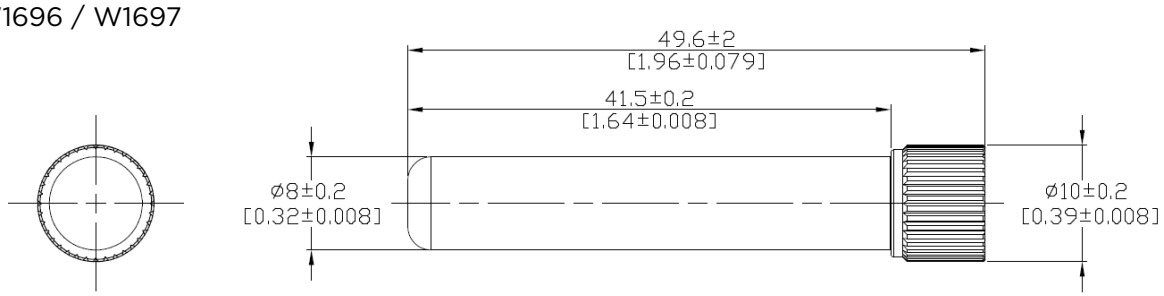
Notes:

1. Storage Temperature: -30°C to 85°C
2. Measured on 305mm (12") SQ ground plane
3. LTP600/71DMN comes in black for white add the suffix W and PN becomes LT600/71DMNW
4. 15.9mm (0.625") hole required

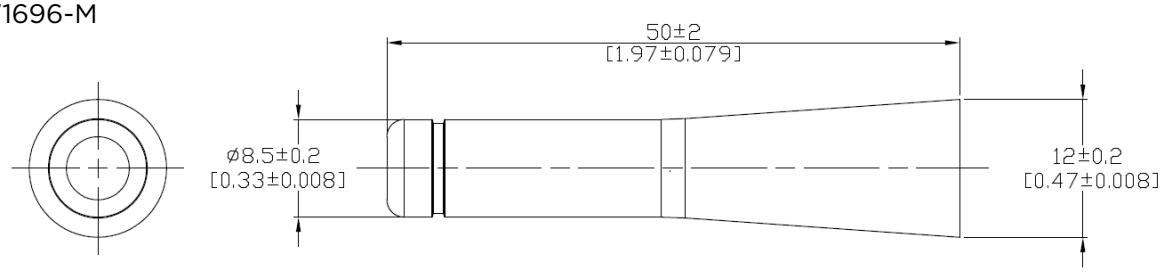
Mechanical

W1696/W1697/W1696-M

W1696 / W1697



W1696-M



Dimensions: Inches / mm

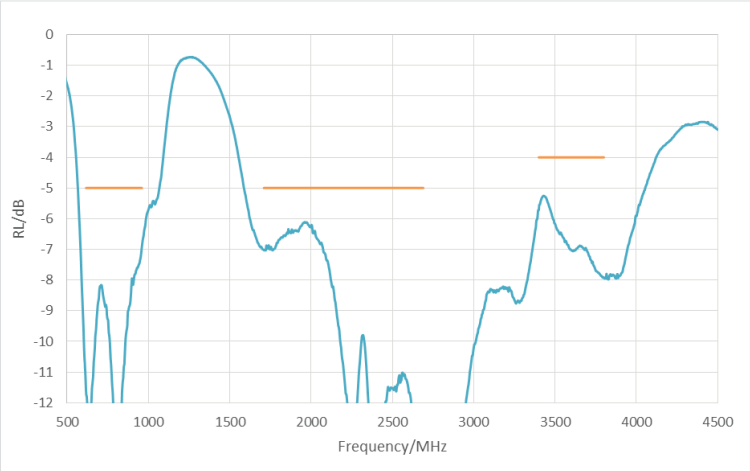
Unless otherwise specified, all tolerances are ± .010 / 0,25

Packaging Info:
1pcs antenna per PE bag
24pcs PE bags per tray
14pcs trays per package box(2 pcs empty tray)
288pcs antenna per package
Package box: 460mm*235mm*140mm

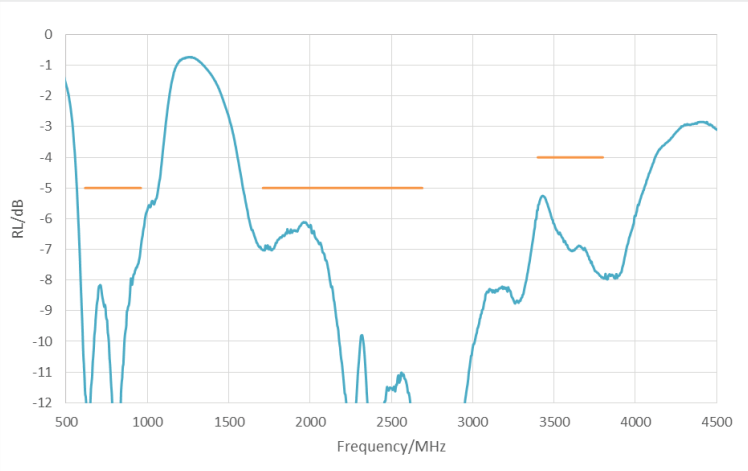
Charts

W1696/W1697/W1696-M

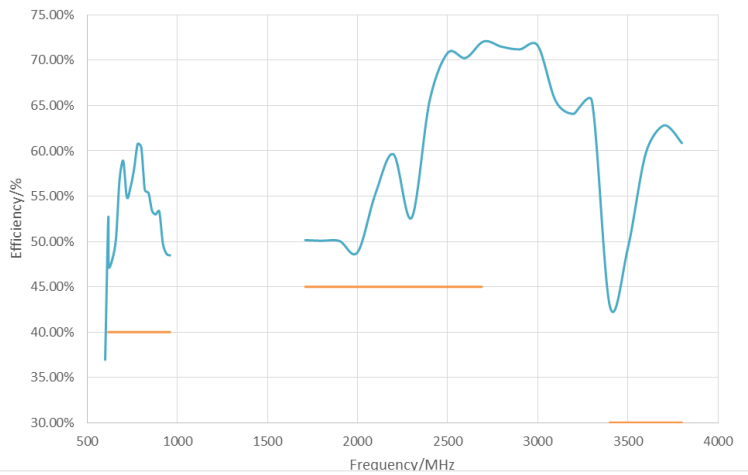
Return Loss vs Frequency



Peak Gain vs Frequency

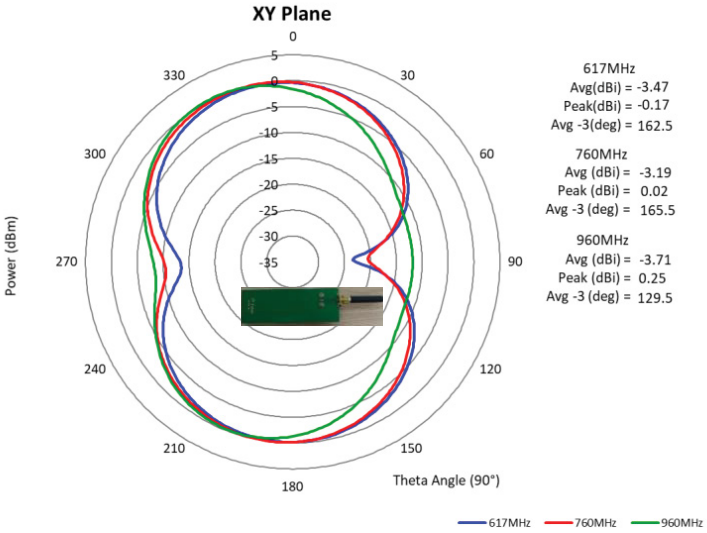


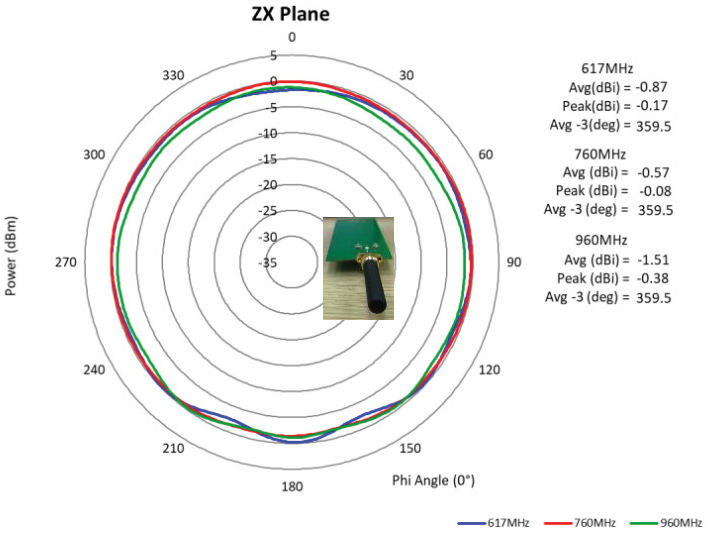
Radiation Efficiency vs Frequency

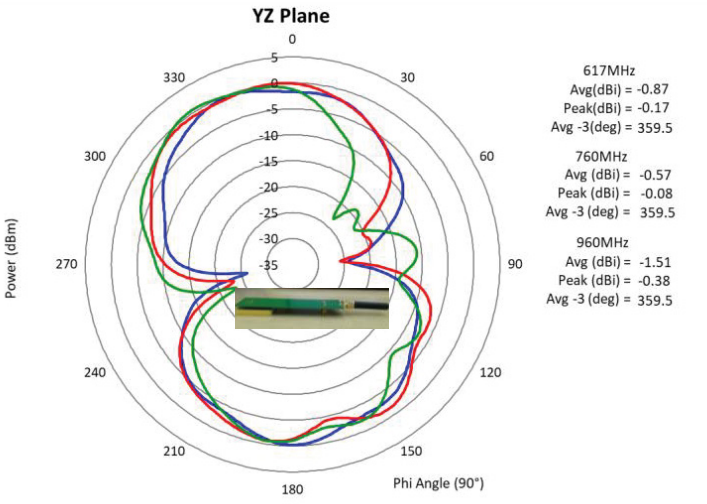


Free Space Radiation Pattern

617MHz - 960MHz

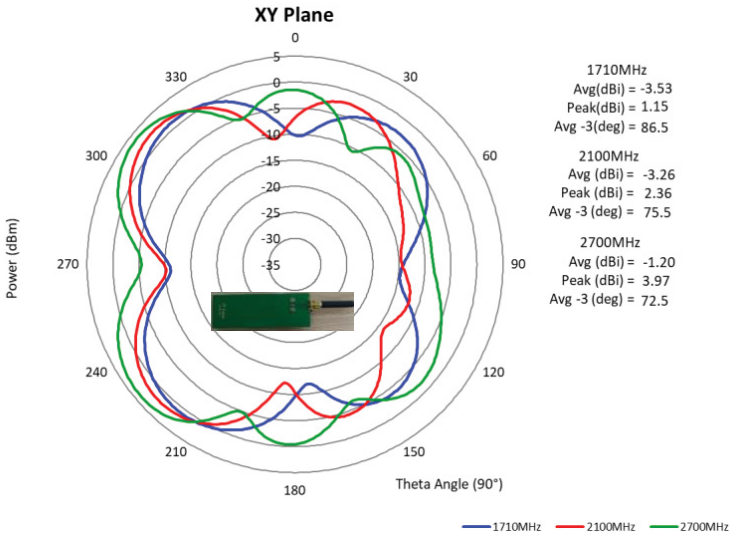


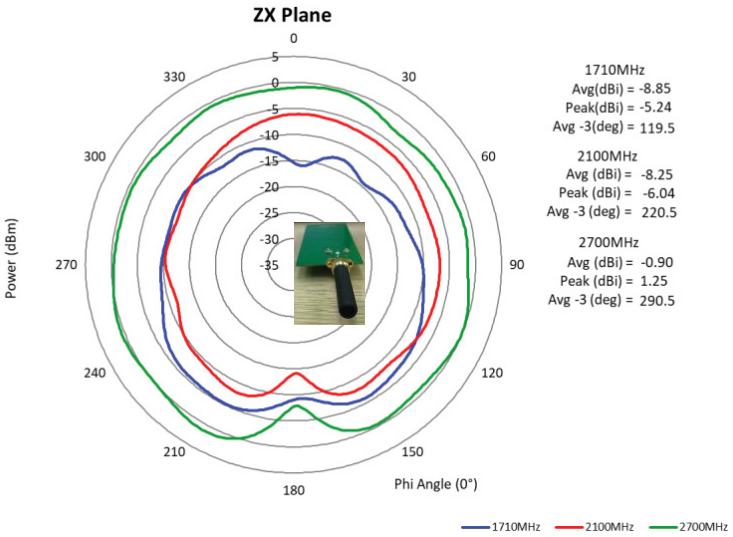


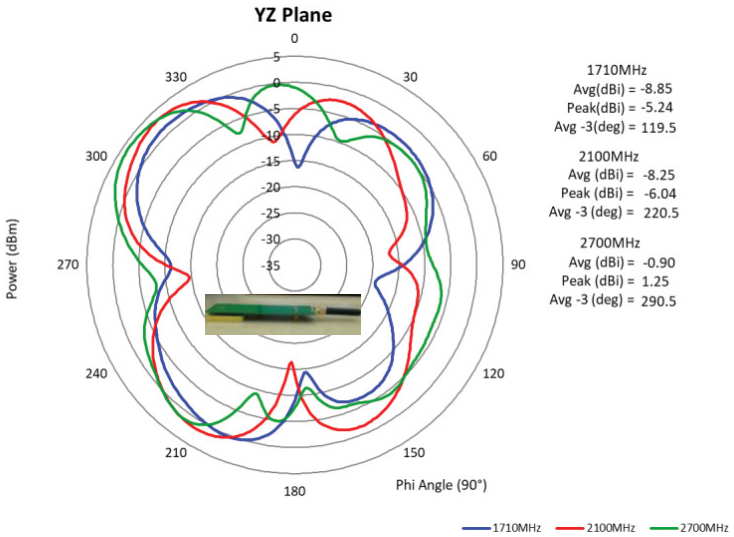


Free Space Radiation Pattern

1710MHz - 2690MHz





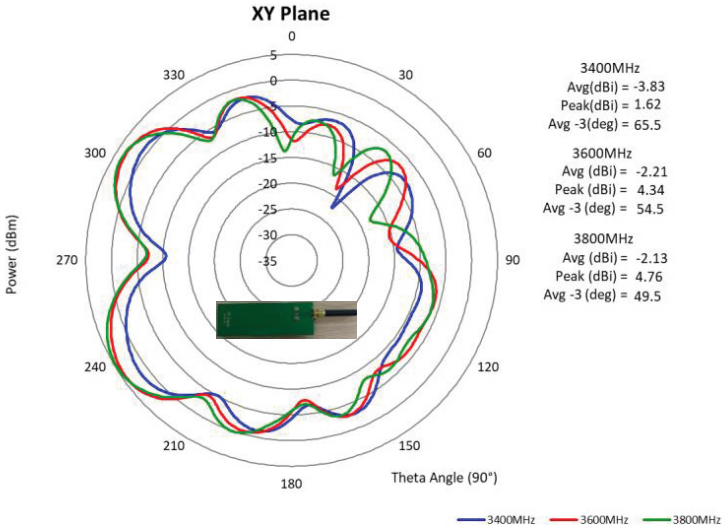


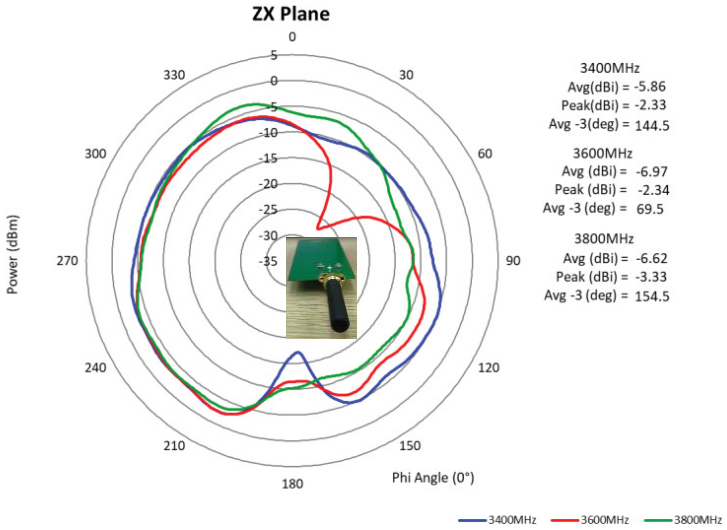
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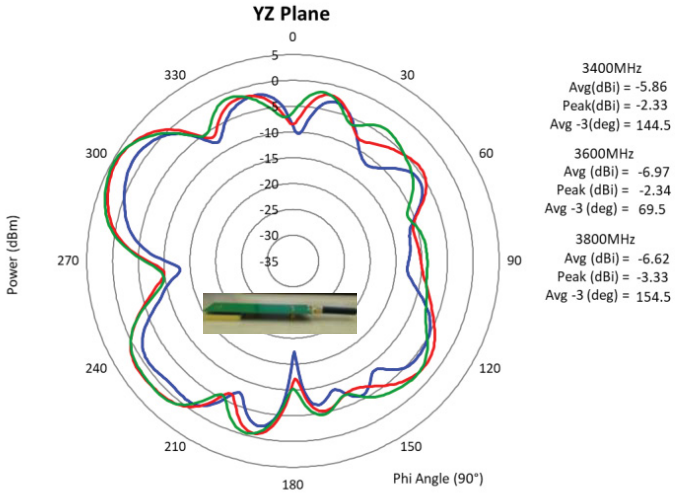
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Free Space Radiation Pattern

3400MHz - 3800MHz







For More Information:

Americas - antennas.us@pulseelectronics.com | **Europe -** antennas.eu@pulseelectronics.com | **Asia -** antennas.as@pulseelectronics.com | **Questions?** +1-800-ANTENNA

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