

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°C¹

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

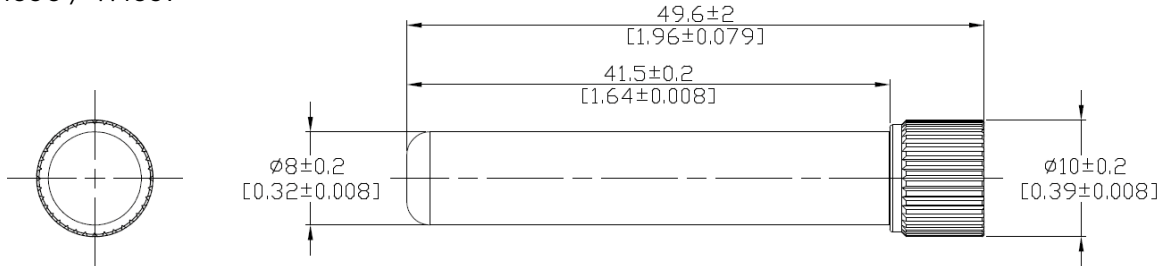
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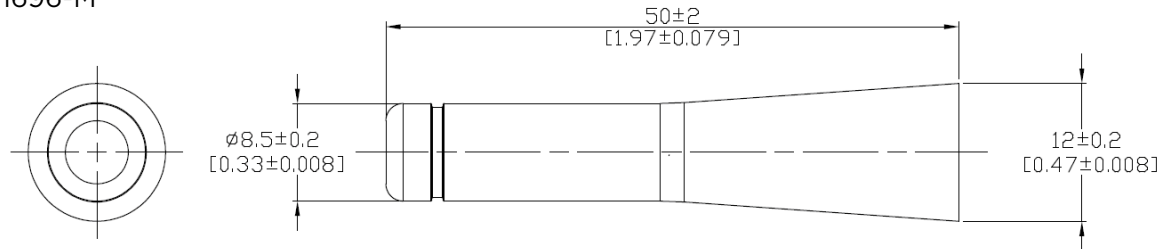
Mechanical

W1696/W1697/W1696-M

W1696 / W1697



W1696-M



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

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

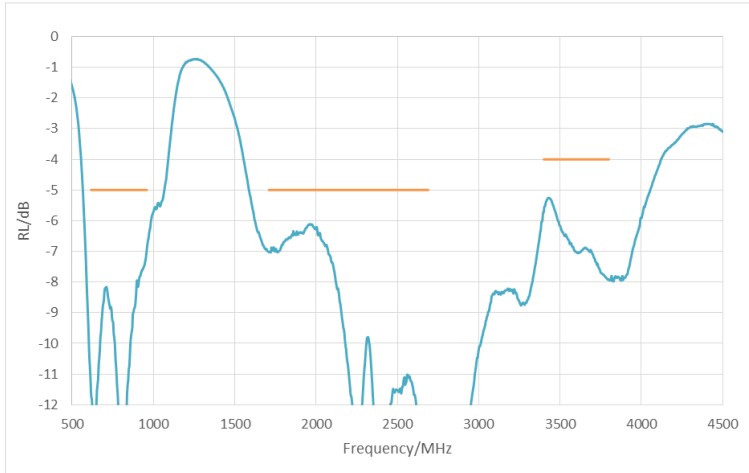
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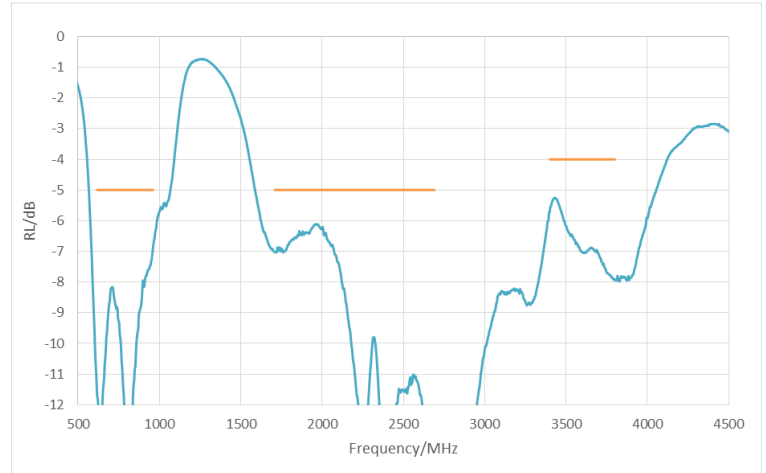
Charts

W1696/W1697/W1696-M

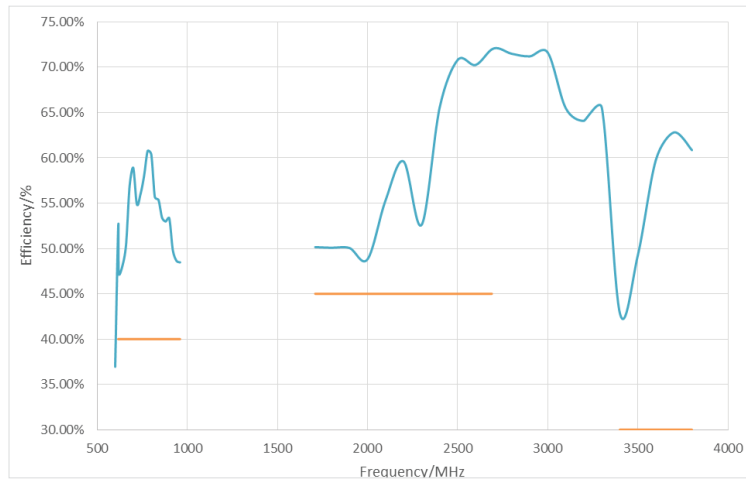
Return Loss vs Frequency



Peak Gain vs Frequency



Radiation Efficiency vs Frequency

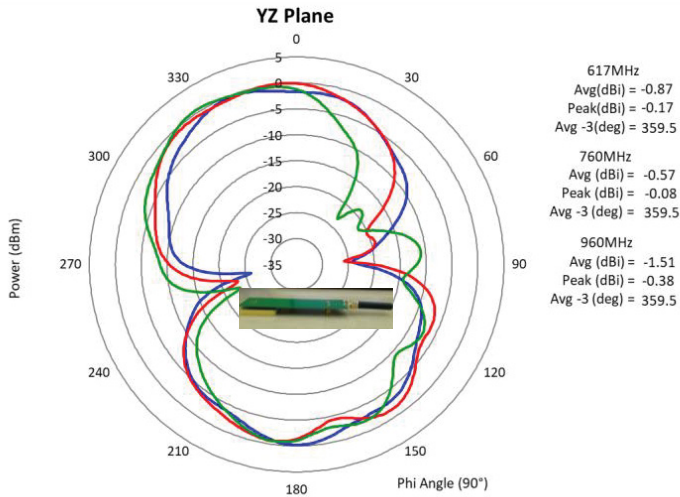
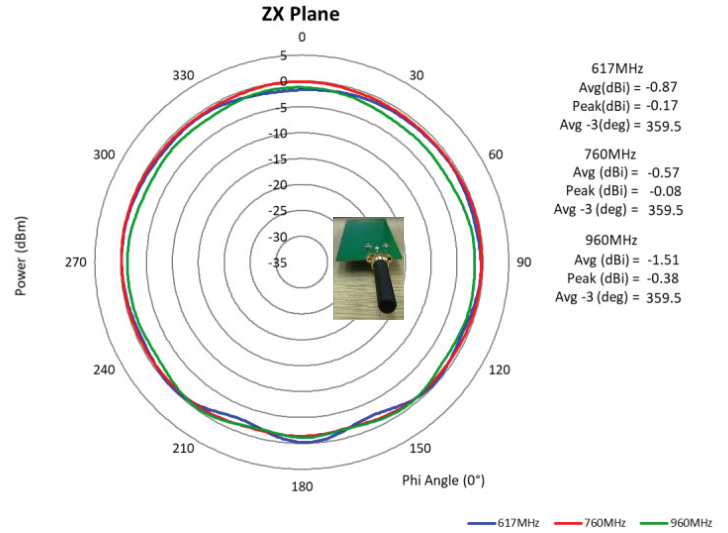
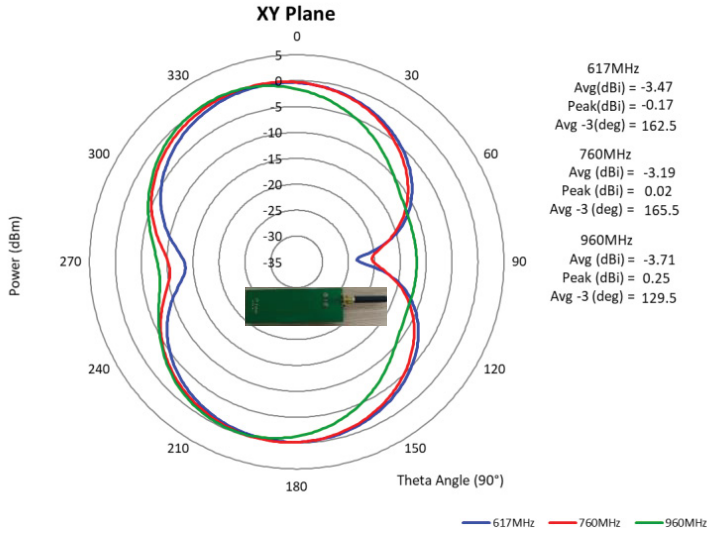


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Free Space Radiation Pattern

617MHz - 960MHz

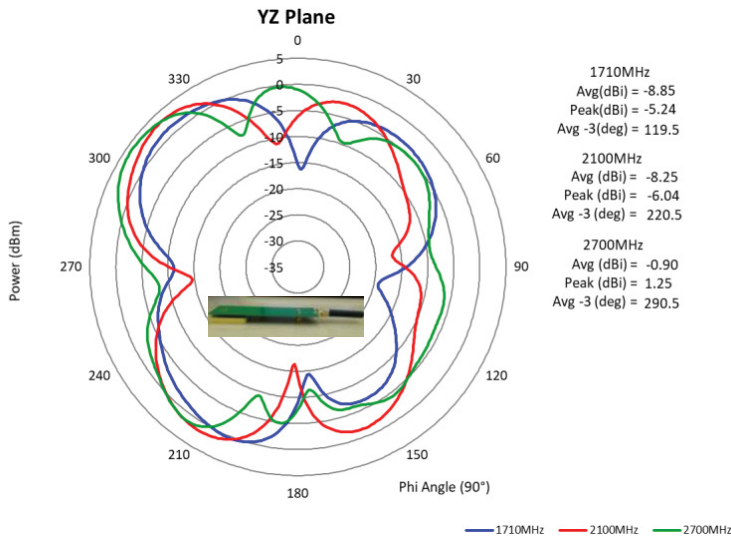
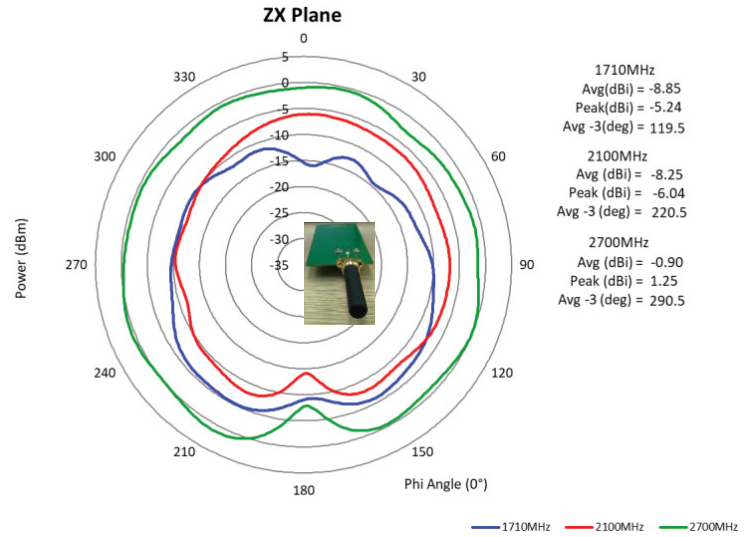
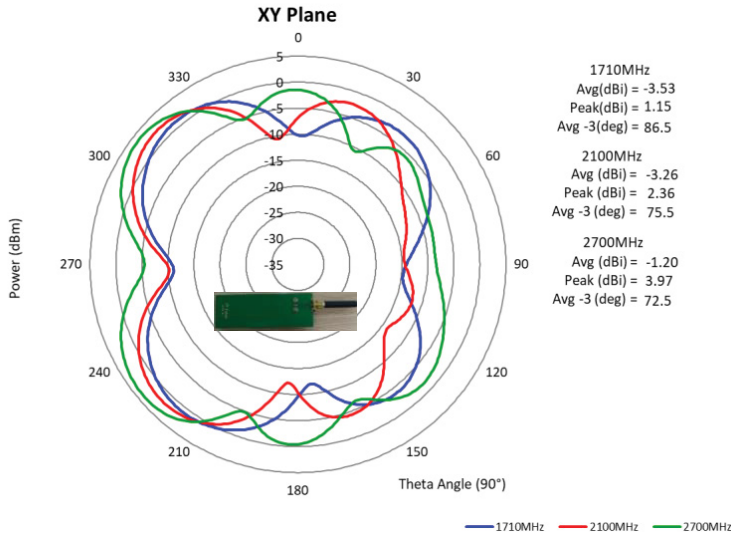


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W1696/W1697/W1696-M - 617 to 3800 MHz (Several 5G FR1 bands)

Free Space Radiation Pattern

1710MHz - 2690MHz

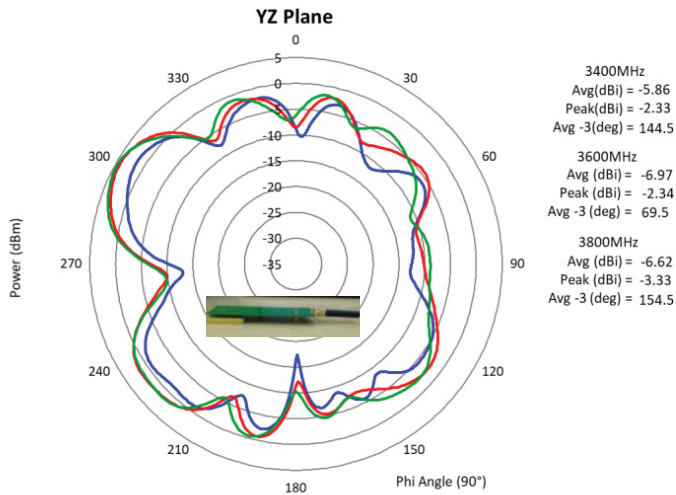
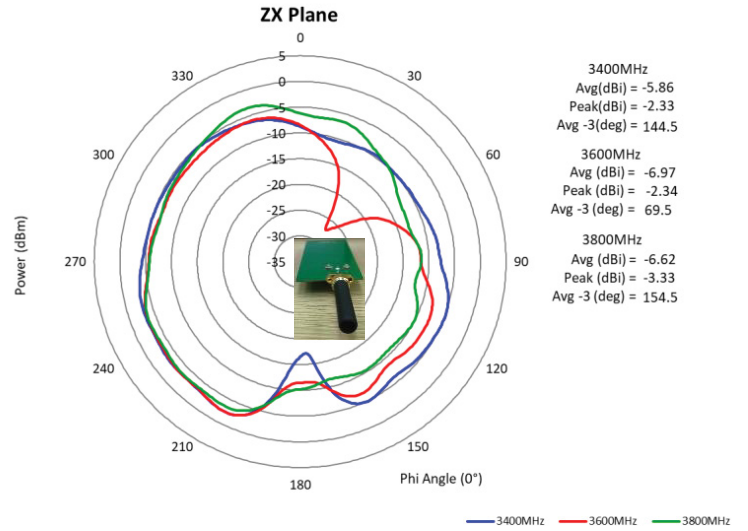
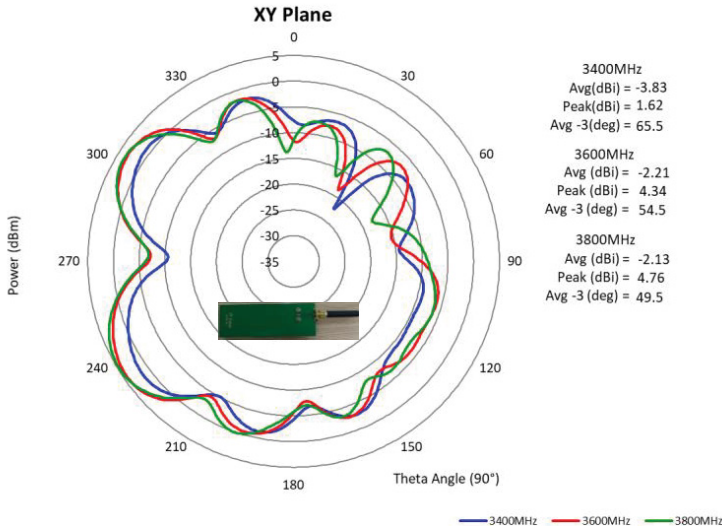


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Free Space Radiation Pattern

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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