

TECHNICAL DATA SHEET

Description: 4G/5G 617-3800MHz

Monopole Stick Antenna

PART NUMBER: W1696/W1697/W1696-M



W1696 / W1697

Features:

- Frequency 617-3800MHz
- Small form factor monopole
- Antenna size W x H:
 W1696 / W1697 (10 x 49.6mm), IP42
 W1696-M (12 x 50mm), IP65
- Connector Type:
 W1696 / W1696-M SMA (male)
 W1697 RP-SMA (male)



W1696-M

Applications:

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

All dimensions are in mm / inch

Issue: 1924

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

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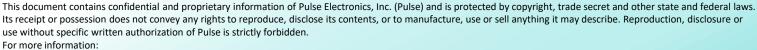
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ELECTRICAL SPECIFICATIONS			
Frequency / MHz	617-960	1710-2690	3400-3800
Nominal Impedance		50Ω	
Return Loss / dB	<-5	<-5	<-4
Peak Gain / dBi	>-0.5	>1	>0
Efficiency	40%	45%	30%
Radiation Pattern		Omni	
Polarization		Linear	
Power withstanding		5W	

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MECHANICAL SPECIFICATIONS

Weight W1696 / W1697: 7.5g

W1696-M: 7.8g

Antenna Color Black

Connector type W1696 / W1696-M SMA(Male)

W1697 RP-SMA(Male)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature -30/+85 ° C

Storage Temperature -30/+85 ° C

Ingress Protection IP65 (W1696-M)

IP42 (W1696 and W1697)

RoHS Compliant Yes





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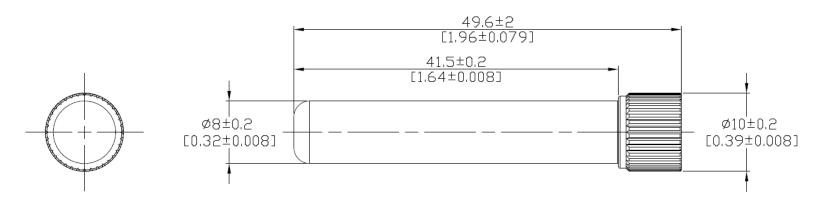
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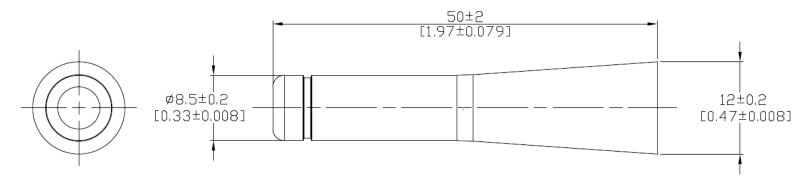
Series: Stubby Antenna

MECHANICAL DRAWING

W1696 / W1697



W1696-M



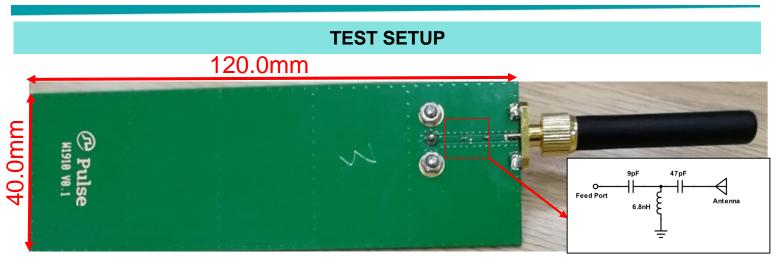


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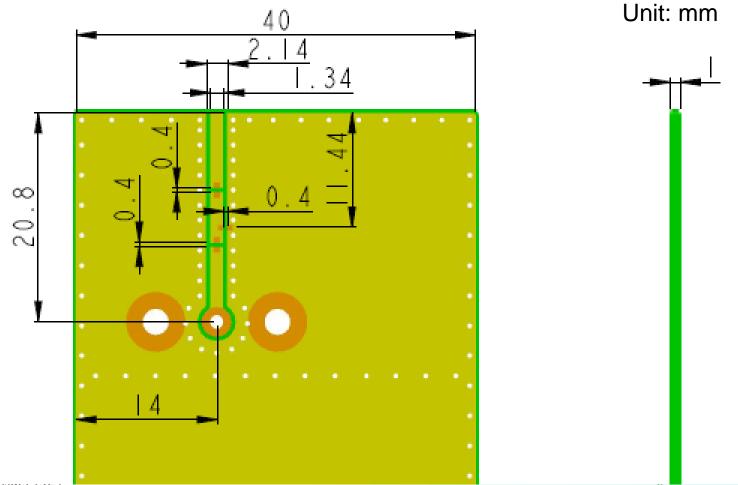
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#Test on 40.0*120.0mm ground plane with matching circuit.



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RóHS



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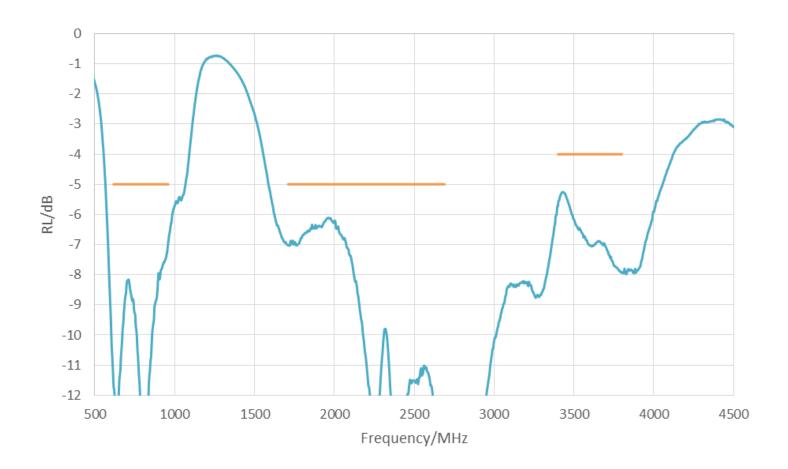
Monopole Stick Antenna

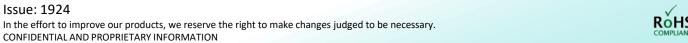
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Series: Stubby Antenna

CHARTS

Return Loss vs Frequency







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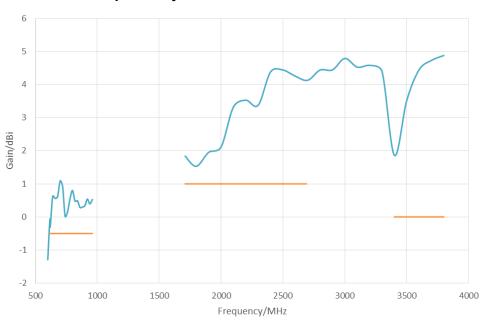
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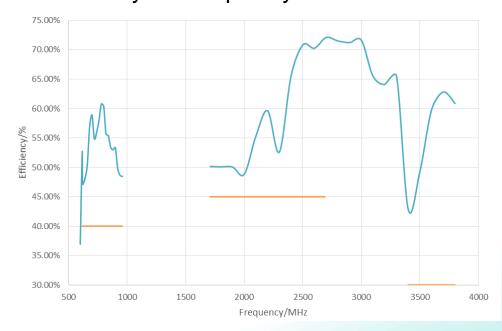
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CHARTS

Peak Gain vs Frequency



Radiation Efficiency vs Frequency



Issue: 1924





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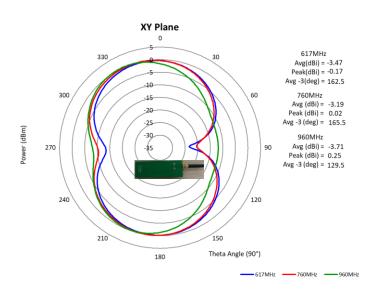
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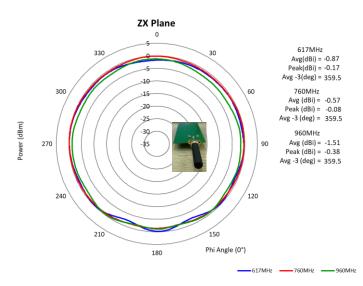
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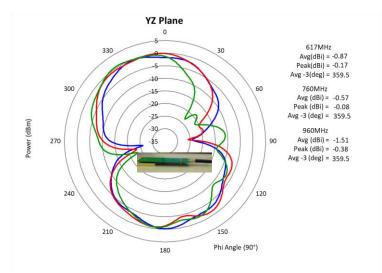
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CHARTS

Free Space Radiation Pattern(617-960MHz)











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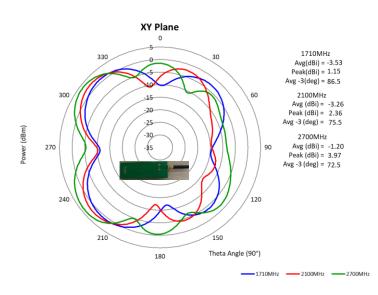
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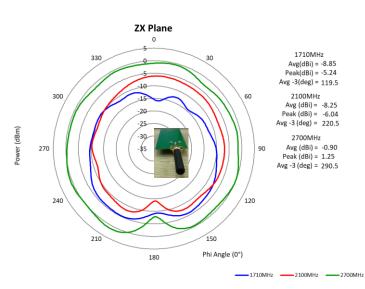
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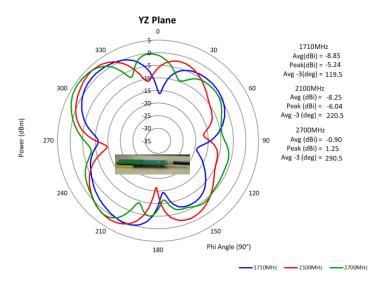
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CHARTS

Free Space Radiation Pattern(1710-2690MHz)









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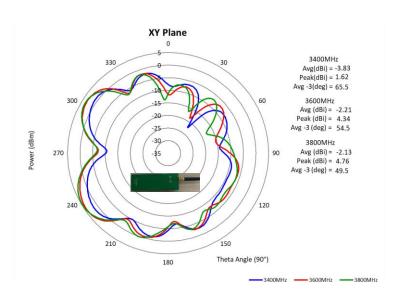
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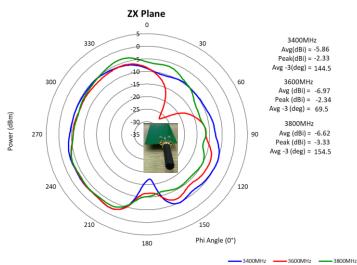
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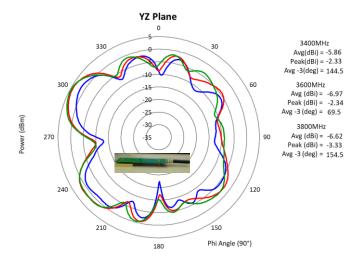
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CHARTS

Free Space Radiation Pattern(3400-3800MHz)









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PACKAGING

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

