

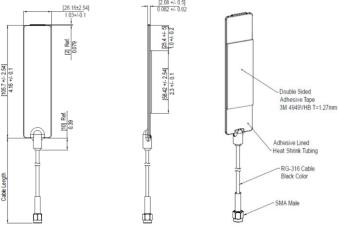
Series: SB Antenna

Antennas

Description: LTE Stealth Blade Antenna

PART NUMBER: W1991





Features:

- Cost-effective, high-performance solution for LTE 698-2700MHz
- Slim, low- profile without sacrificing mechanical performance
- Multiple cable lengths and connector options
- Adhesive mount
- Flexible board
- IP-67 rating when installed to compliant surface
- RoHS Compliant Product
- Multiple and dual frequency products available

Applications:

- WLAN, LTE and 3G/4G applications
- Public Safety
- · IoT Vending/Smart Metering
- Access Points
- Vehicular (window, dashboard, visor)
- Data transmission

Projects	Connector	Cable Type	Cable Length	Weight
W1991	SMA Male	RG-316 Black	10' / 3048mm	44g
W1991AV			2' / 609.6mm	23g

All dimensions are in mm / inches

Issue: 1618

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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ELECTRICAL SPECIFICATIONS

Antenna Type Dipole (Measured with 315mm RG-174 Cable, in free space)

Frequency 698-960/1710-2170/2300-2700MHz

Nominal Impedance 50 Ω

VSWR 2.5:1 Max

Peak Gain (698-960) 2 dBi

Peak Gain (1710-2700) 2 dBi

Efficiency (698-960) 50 %

Efficiency (1710-2700) 60 %

HPBW Horizontal Plane Omni

HPBW Vertical Plane (698-960) 40°

HPBW Vertical Plane (1710-2170) 70°

HPBW Vertical Plane (2300-2700) 55°

Polarization Vertical

Power withstanding 3 W

Connector type Refer to table on Page 1

Cable type Black RG-316

Length Refer to table on Page 1



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MECHANICAL SPECIFICATIONS

Radome Adhesive lined polyolefin tubing

Color Black

Ingress Protection IP67

Weight Refer to table on Page 1

Overall Length 4.16 INCHES

Cable retention: Pull off 30 N mini

Fixing system Adhesive Tape (3M VHB 4949)

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

-40 ~ +85° C

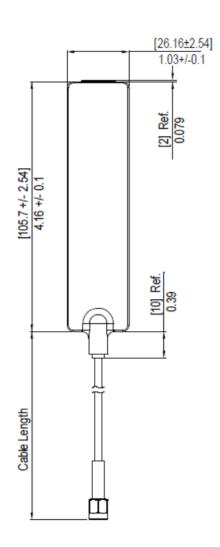


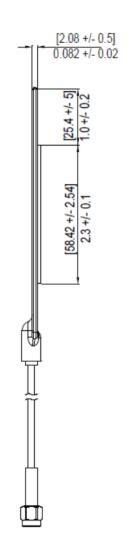


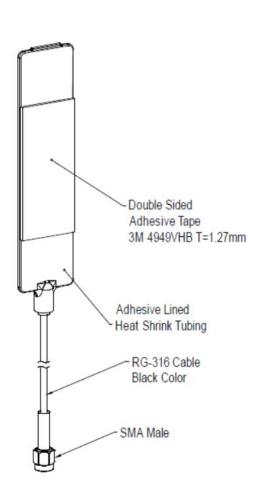
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MECHANICAL DRAWING









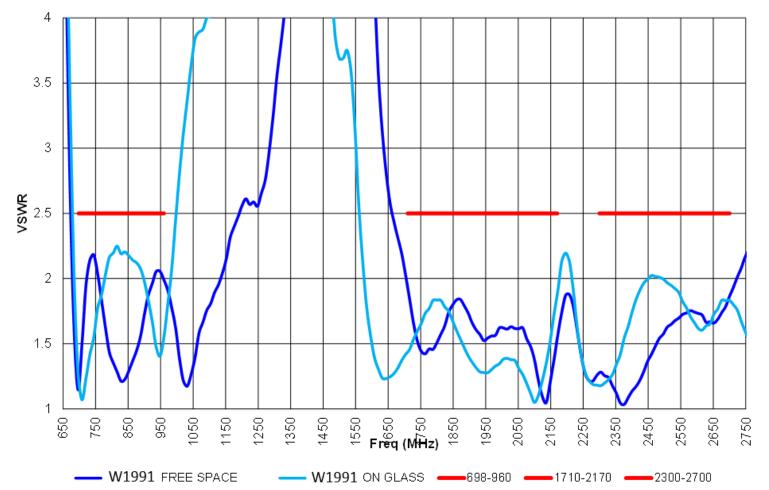


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CHARTS

S11 Parameter Measured with 315mm RG-174 cable







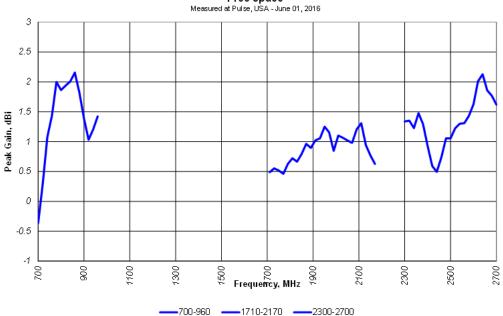


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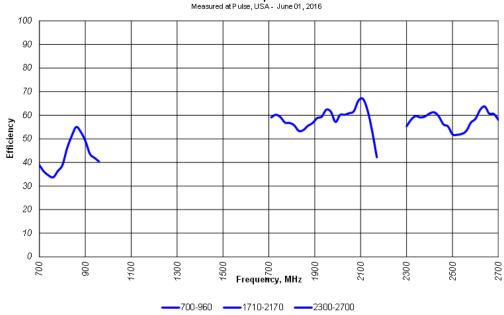
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CHARTS

Peak Gain vs Frequency Free space Measured at Pulse, USA - June 01, 2016



Efficiency vs Frequency Free space



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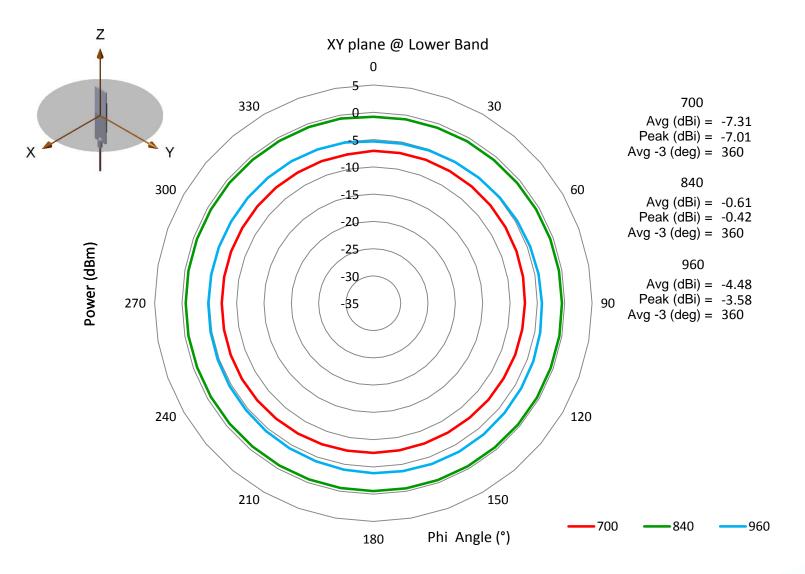
ROHS





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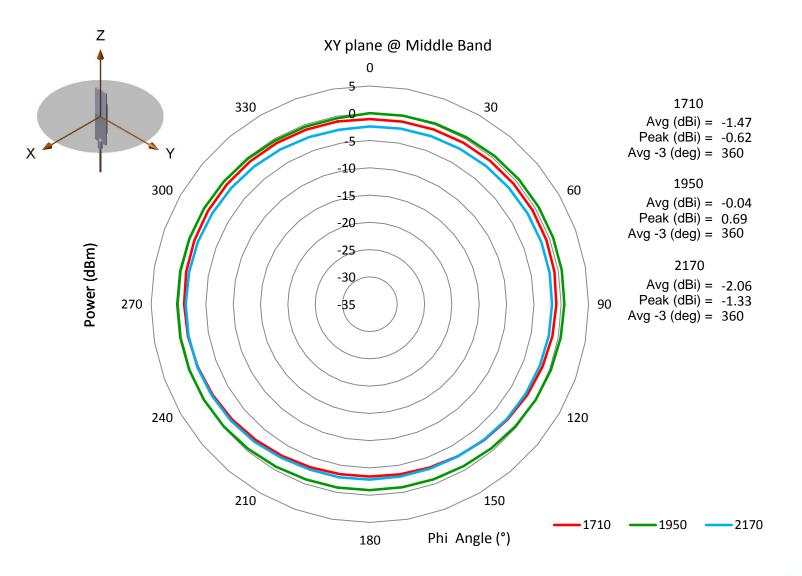






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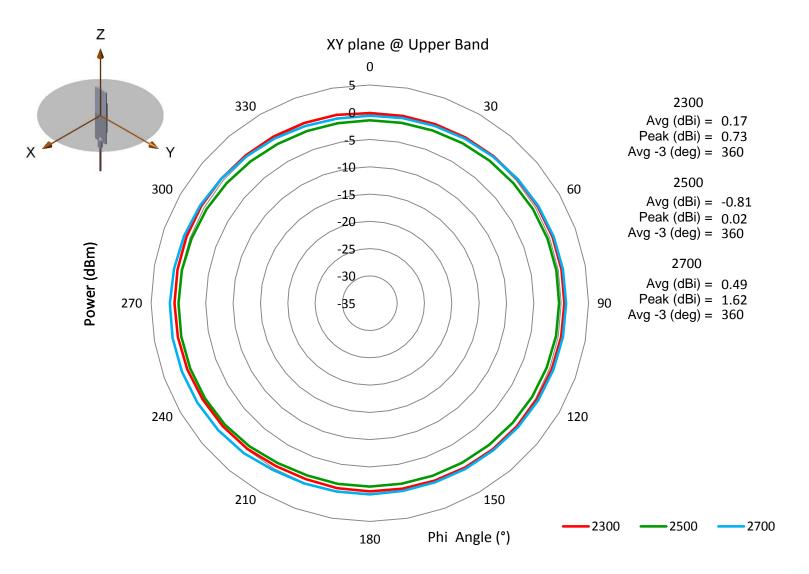






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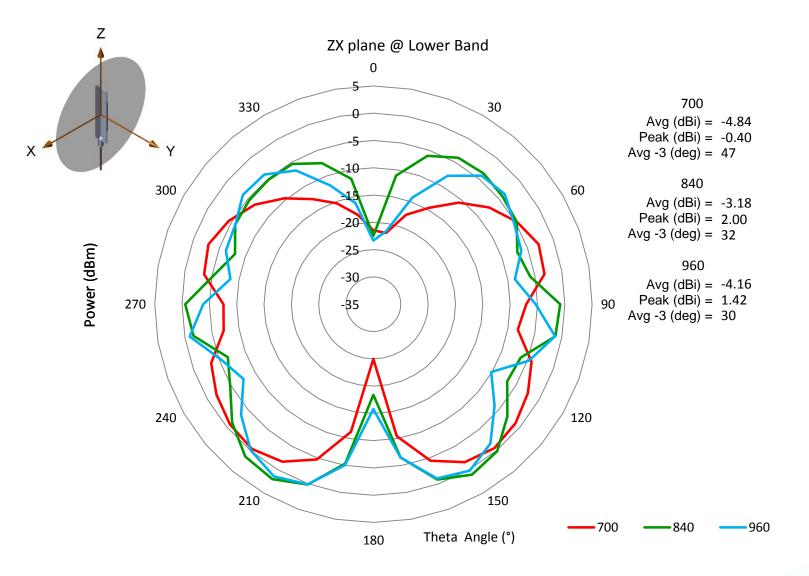






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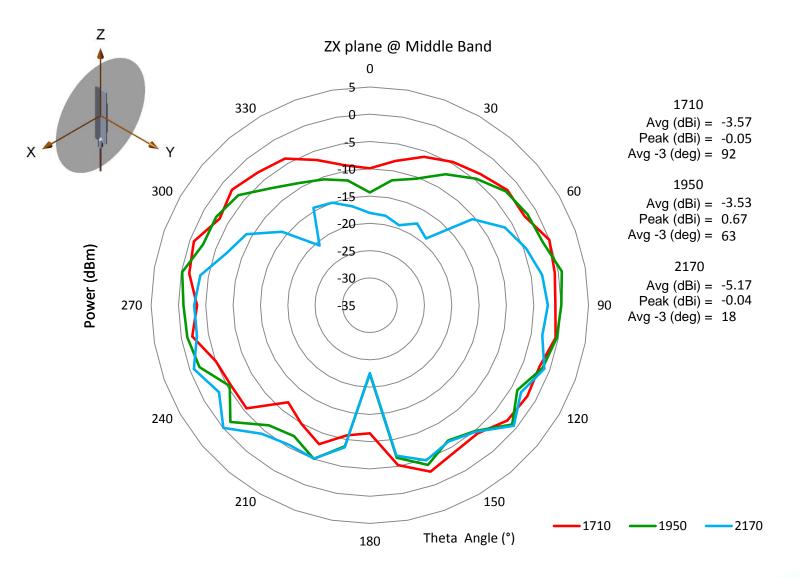




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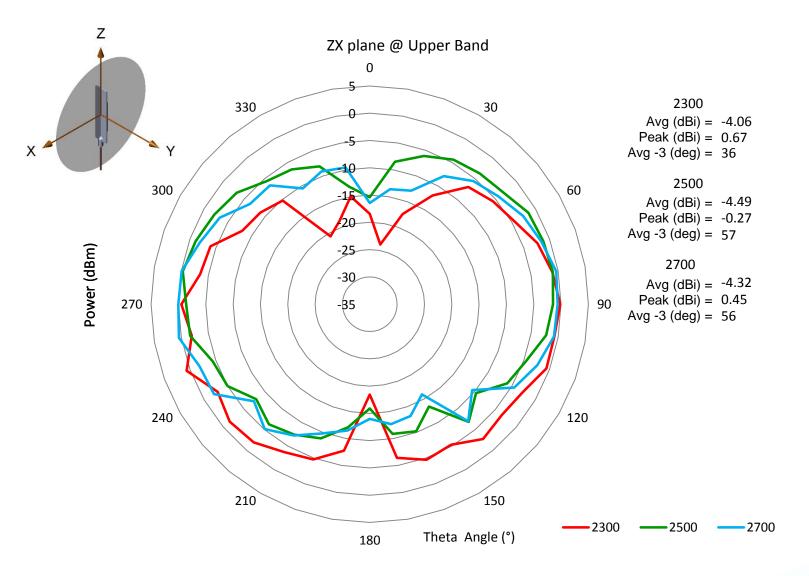






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Packaging

- 1 antennas packed in one plastic bag
- 1 label on each plastic bag with part number, date code.
- 200 plastic bags of antennas (total 200pcs) packed in a cardboard box
- 1 label on each box with qty, part number, date code.