

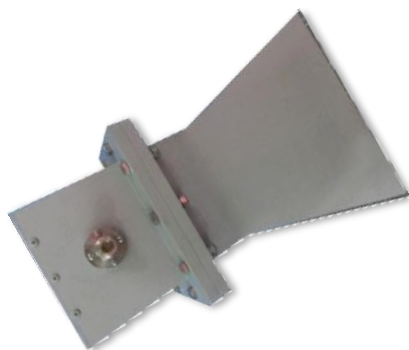


RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RW510HORN10A

Standard Gain Horn Antenna 1.7-1.9GHz



Typical Applications

- Wireless Infrastructure
- RF Microwave & VSAT
- Military & Aerospace
- Test Instrument
- Fiber Optics

Standard Gain Horn Antenna 1.7-1.99GHz

Electrical Specifications, $T_A=25\text{ }^{\circ}\text{C}$

Parameter	Min	Typ	Max	Units
Frequency Range	1.7~1.9			GHz
Gain	10			dB
VSWR			1.5	
Waveguide type	Rectangular Waveguide WR510			
Flange type	CPRF, COVER			
Flange Holes	Through			
Connector	N - female			
Material	Brass			
Internal Body Finish	Silver Plated chromate or conversion			
External Body Finish	Body painted with gray / black epoxy enamel			

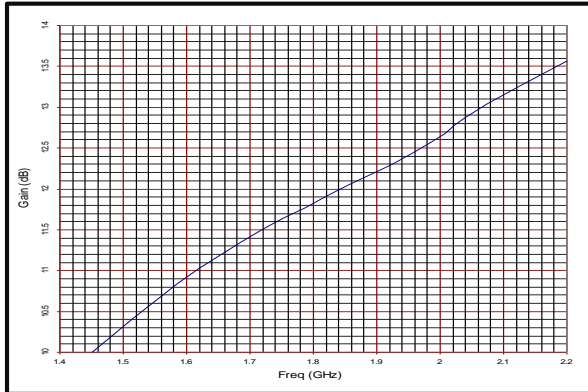
Environmental Specifications

Operational Temperature ($^{\circ}\text{C}$)	-40 ~ +70
Storage Temperature ($^{\circ}\text{C}$)	-50~ +125
Altitude	45,000 ft.
Vibration	10g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msec half sine wave, 3 axis both directions

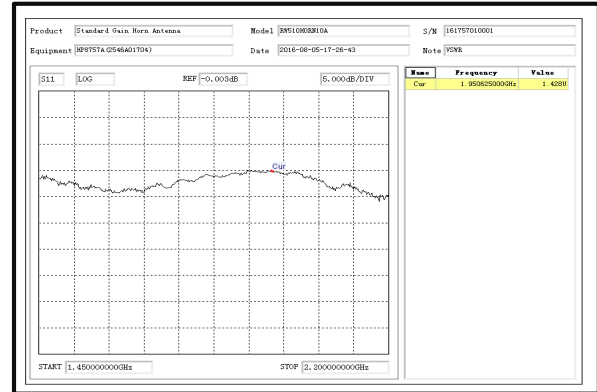


Typical Performance Plots

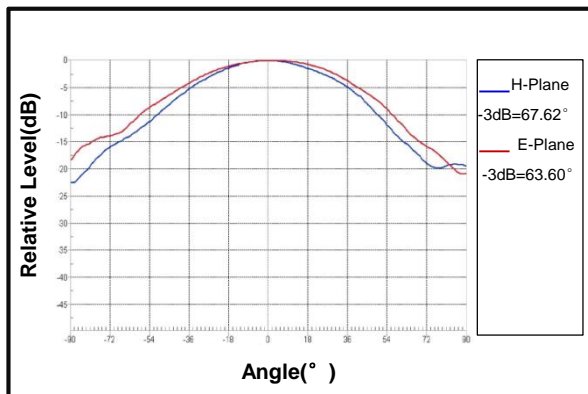
Gain vs. Frequency



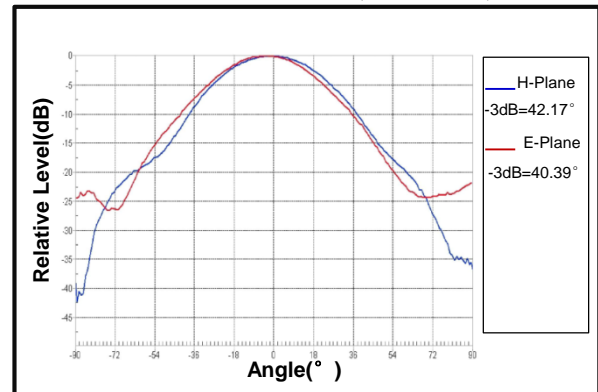
VSWR



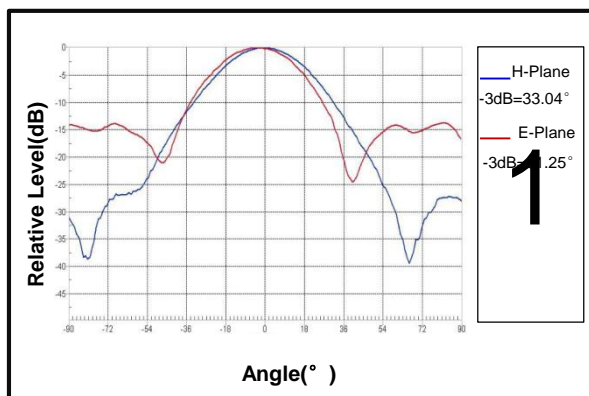
Typical Direction Pattern (1.450GHz)



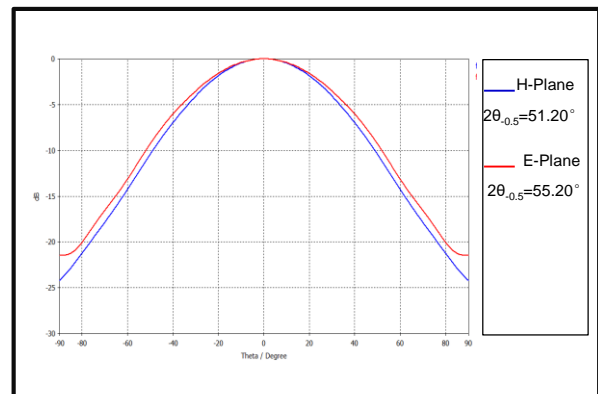
Typical Direction Pattern (1.825GHz)



Typical Direction Pattern (2.200GHz)

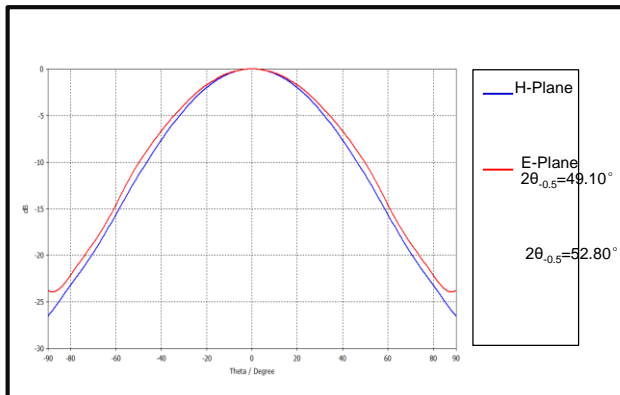


Typical Pattern Other Frequencies (1.525GHz)

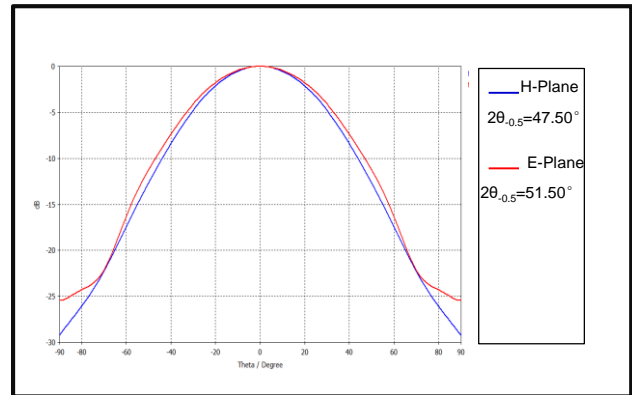




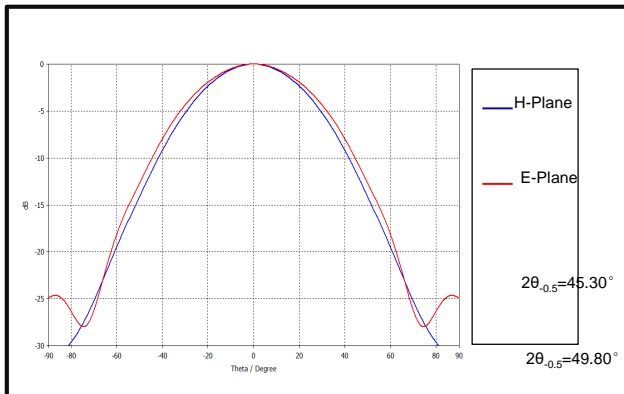
Typical Pattern Other Frequencies (1.600GHz)



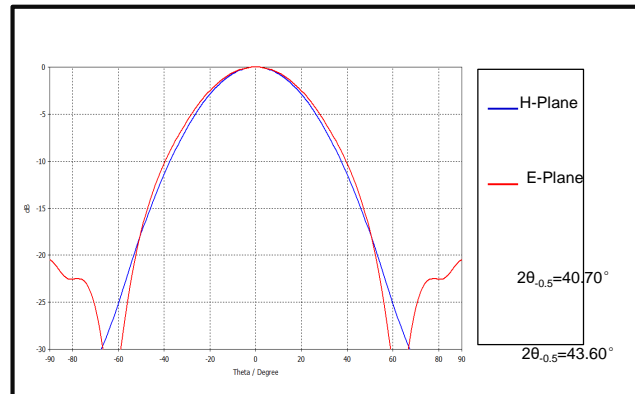
Typical Pattern Other Frequencies (1.675GHz)



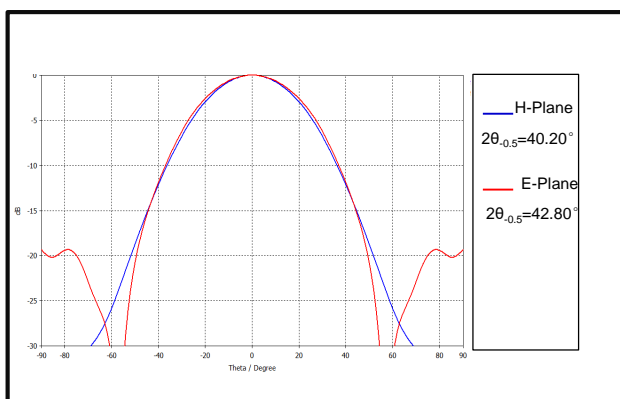
Typical Pattern Other Frequencies (1.750GHz)



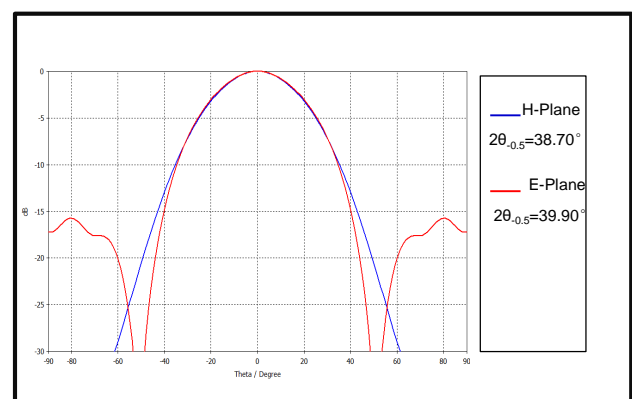
Typical Pattern Other Frequencies (1.900GHz)



Typical Pattern Other Frequencies (1.975GHz)

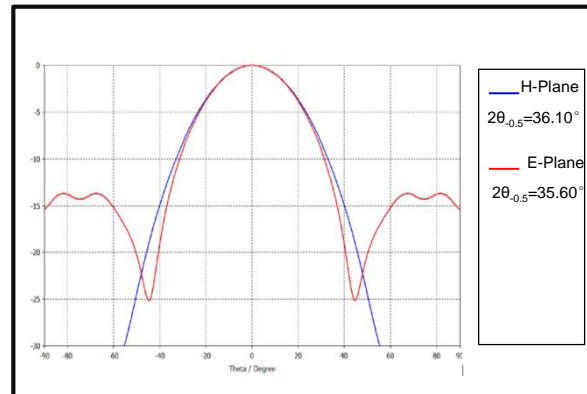


Typical Pattern Other Frequencies (2.050GHz)



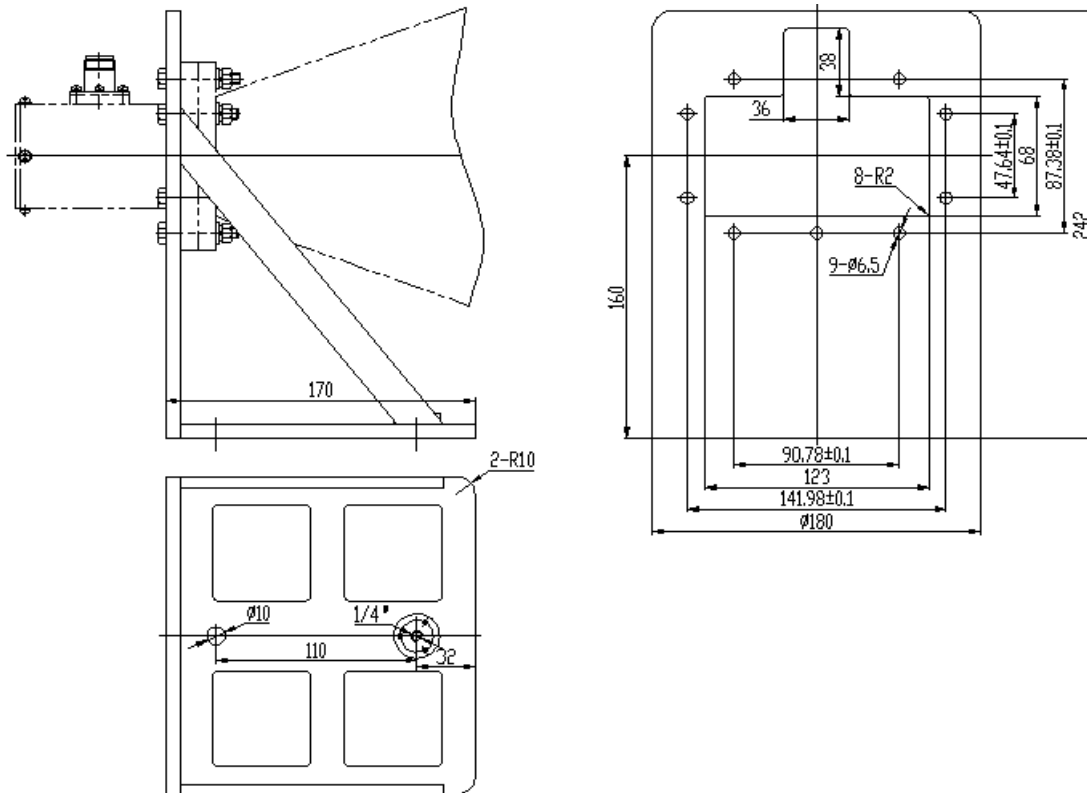


Typical Pattern Other Frequencies (2.125GHz)



Standard Gain Antenna L-type Bracket Connection Drawing

All Dimensions in mm





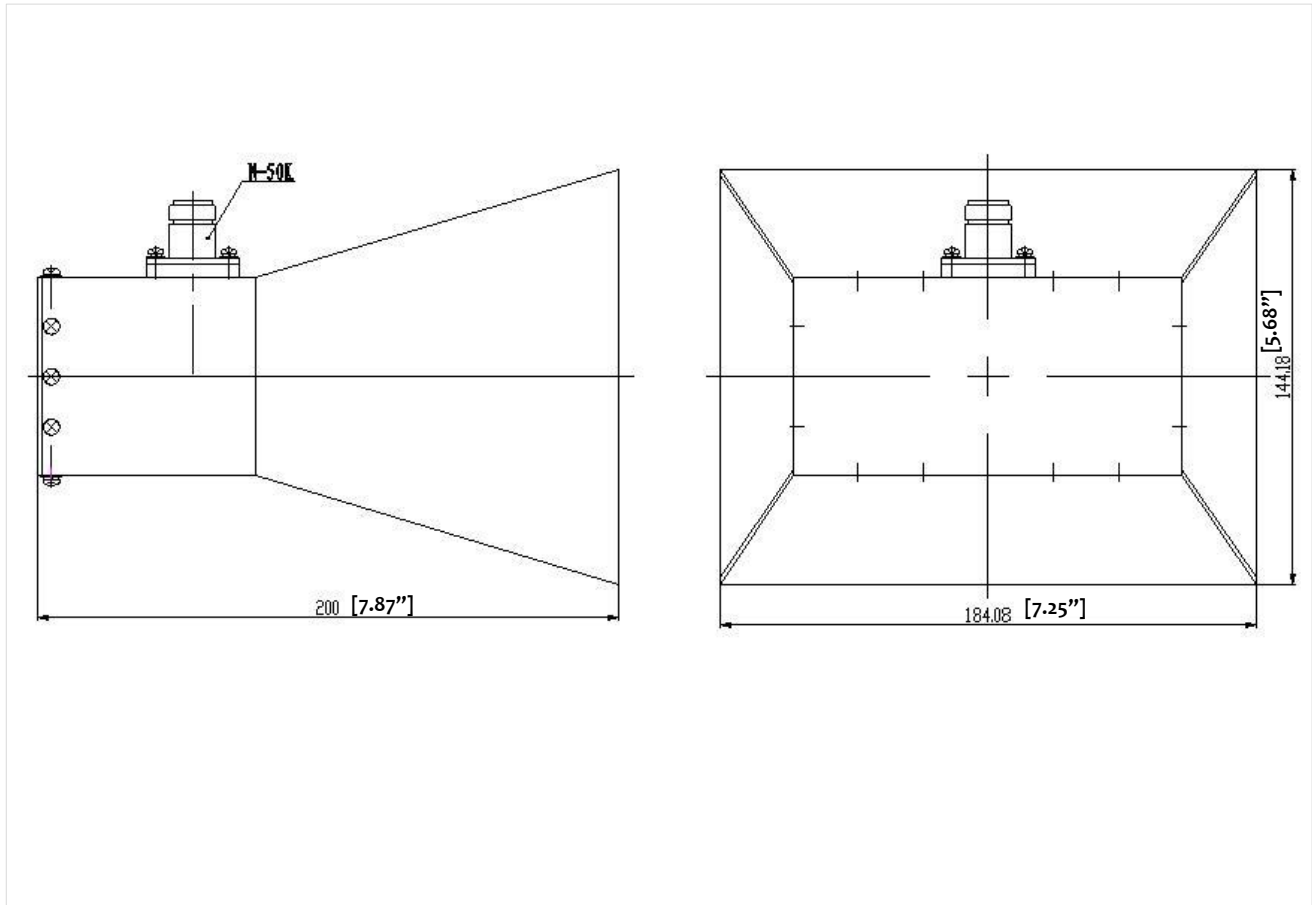
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Outline Drawing:

All Dimensions in mm [inches]



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Using Notices

1. Standard gain horn is precise calibration equipment. It should be protected from rain, bumps and taken and put down carefully.
2. During operation, protective measures should be taken. Do not touch coating surface by hands directly to avoid the damage to the coating surface.
3. The interface is a coaxial connector. Use a torque spanner to disassemble and assemble. Take necessary precaution to route external cables with adequate strain relief. This connector can only transfer microwave signals and cannot bear external force. It cannot be used to support external cables.
4. After use, the product should be cleaned and the connector should be covered by protective cap.

Warranty

Without special situations, it is forbidden for the antenna to be disassembled. The products are guaranteed to be free from defects in materials and workmanship for one year from the date of shipment.

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