

WR75 Waveguide Horn Antenna 10GHz-15GHz



Note: Photo is for illustration purposes only.
Please refer to outline drawing.

Features

- Full band operation
- Low VSWR
- Rugged mechanical configuration

Product Description

RW75HORN20B is a waveguide horn antenna with a frequency range of 10 to 15GHz.

The working temperature of this product is between - 40°C and + 70°C.

Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

Electrical Specifications (T_A=+25°C)

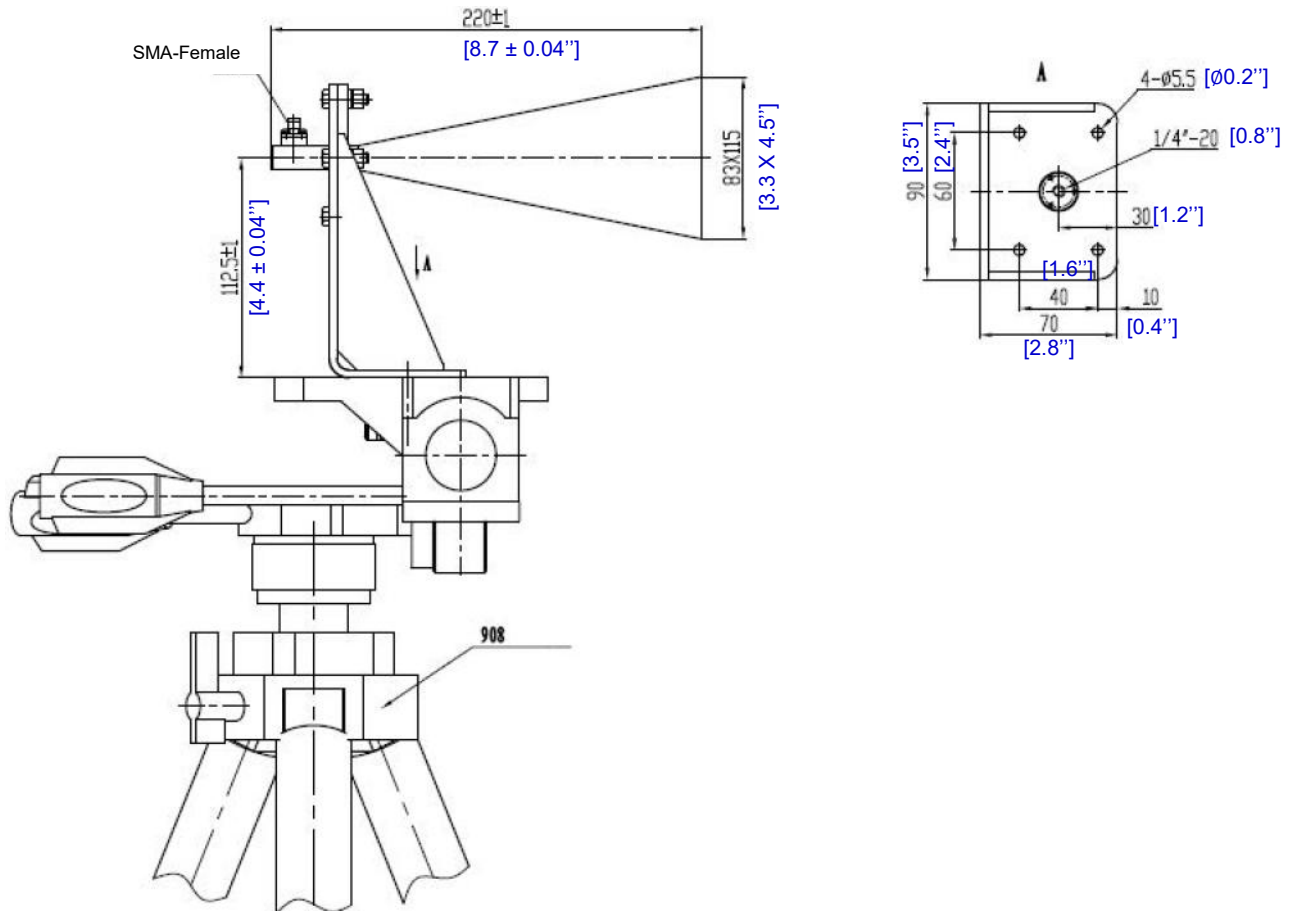
Parameter	Min	Typ	Max	Units
Frequency Range	10		15	GHz
Gain		20		dB
VSWR			1.5	:1
Connector		SMA-Female		
Waveguide type		WR75		
Flange type		CPRF, COVER		

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40°C to +70°C (Case Temperature)
Storage Temperature	-50°C to +125°C
Thermal Shock	-40°C → +70°C (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

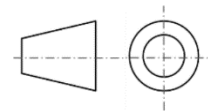
**For vibration testing details please see additional information section.

Outline Drawing



Notes:

1. Material: Copper
2. Inside finish: Silver-Plating
3. Outside finish: Anticorrosion grey paint
4. All dimensions are in millimeters [inches].
5. The tolerance noted is just for reference.
6. Standard torque wrench must be used to secure RF connectors.



Additional Information

Documentation	Webpage
ESD Policy	https://rflambda.com/pdf/rflambda_esd_control.pdf
Connector Torque Specifications	https://www.rflambda.com/pdf/Torque_Specifications.pdf
Random Vibration Test Standard	https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Ordering Information

Part Number	Modification	Description
RW75HORN20B	WR75	10GHz-15GHz Waveguide Horn Antenna

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