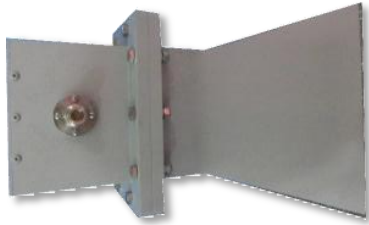


## Standard Gain Horn Antenna 1.45 - 2.2GHz



### Features

- Standard Gain Horn Antenna
- Compact Size
- Coaxial Interface

### Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

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

Parameter	Min.	Typ.	Max.	Units
Frequency Range	1.45-2.20			GHz
Gain	10			dB
VSWR			1.5	: 1
Waveguide type	Rectangular Waveguide WR510			
Flange type	CPRF, COVER			
Flange Holes	Through			
Connector	N-female			
Basis-material	Brass			
Internal Body Finish	Silver Plated chromate or conversion			
External Body Finish	Body painted with gray / black epoxy enamel			

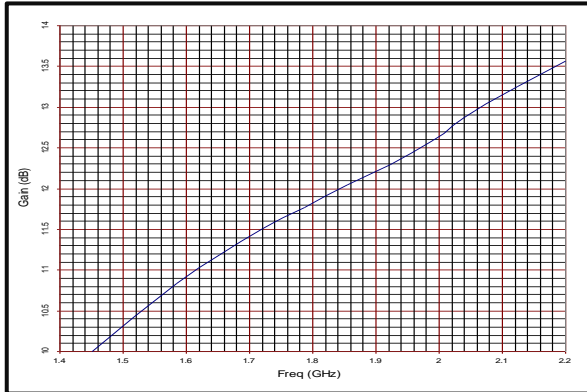
Standard Gain Horn Antenna 1.45 – 2.20GHz

**Environmental Specifications and Test Standards**

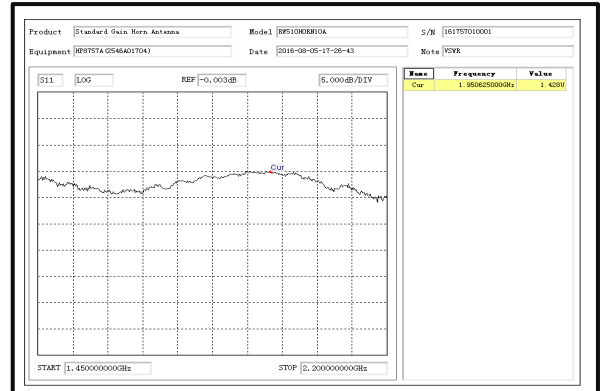
Parameter	Description
Operational Temperature	-40°C~+70°C (Case Temperature)
Storage Temperature	-50°C~+125°C
Thermal Shock	-40°C → +70°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
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)

**Typical Performance Plots**

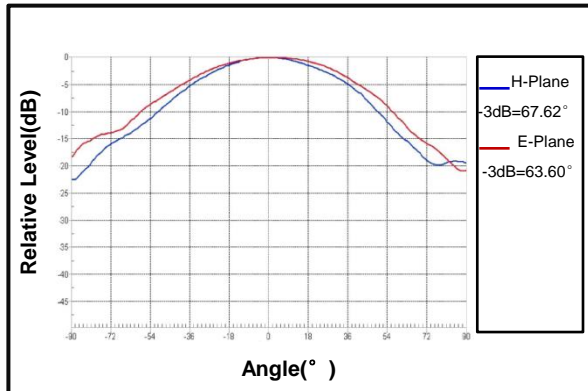
**Gain vs. Frequency**



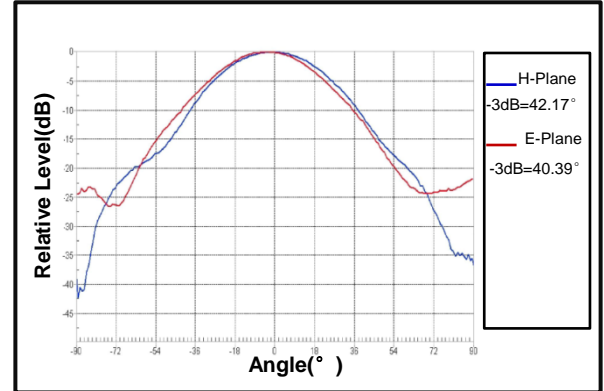
**VSWR**



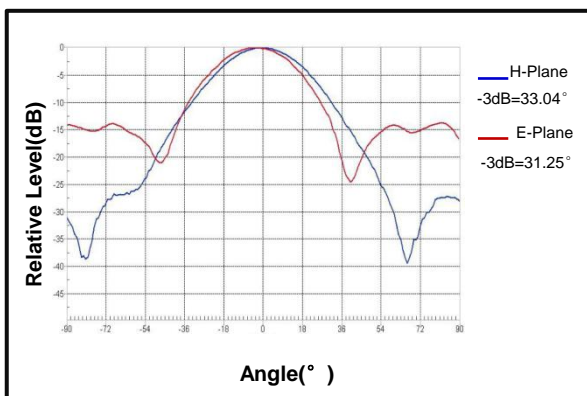
**Pattern @1.450GHz**



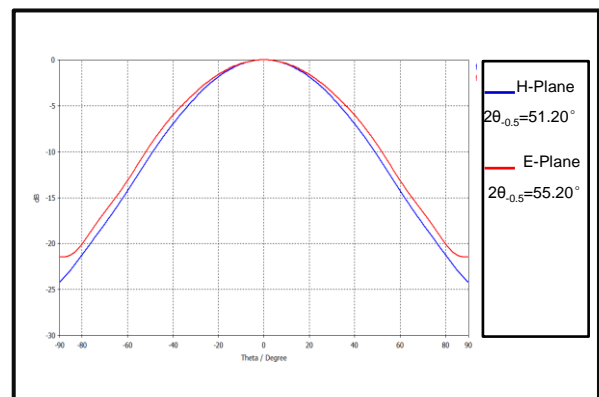
**Pattern @1.825GHz**



**Pattern @2.200GHz**

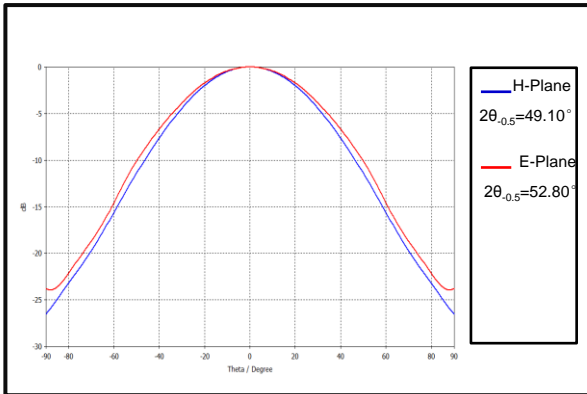


**Pattern @1.525GHz**

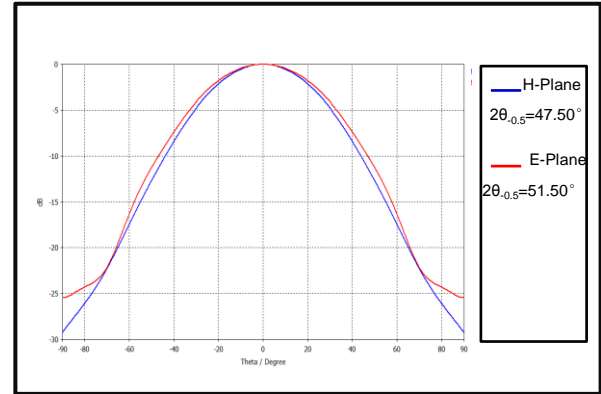


**Standard Gain Horn Antenna 1.45 – 2.20GHz**

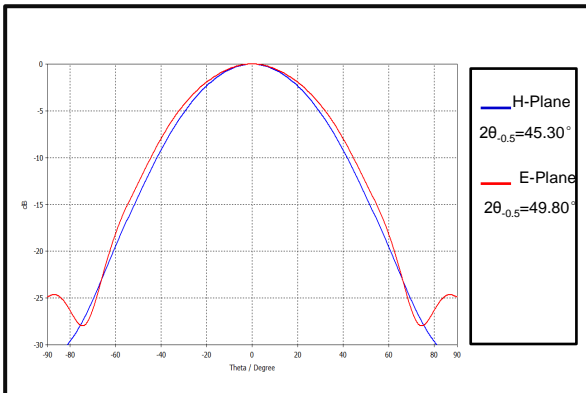
**Pattern @1.600GHz**



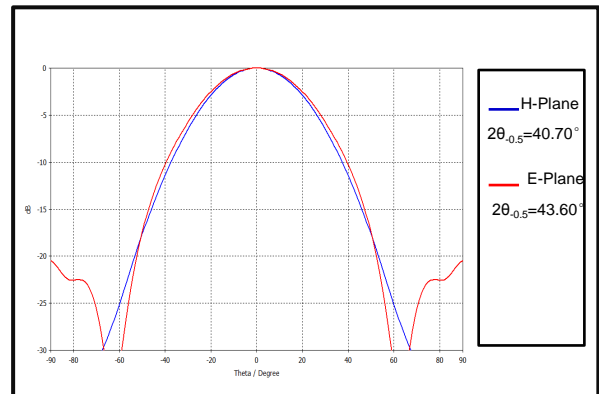
**Pattern @1.675GHz**



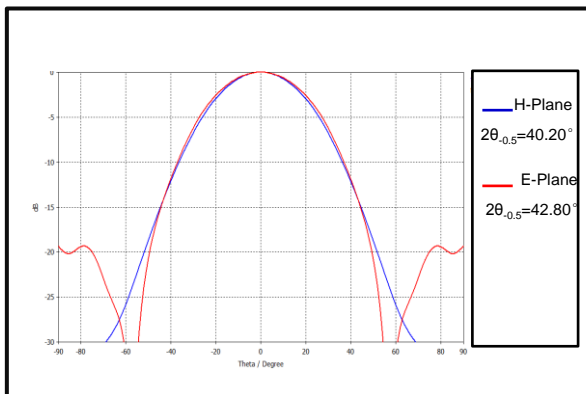
**Pattern @1.750GHz)**



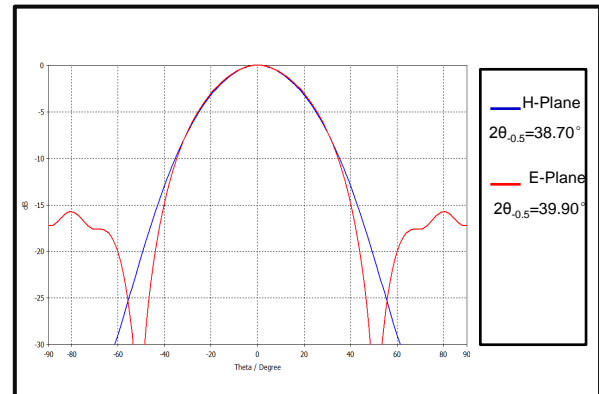
**Pattern @ 1.900GHz**



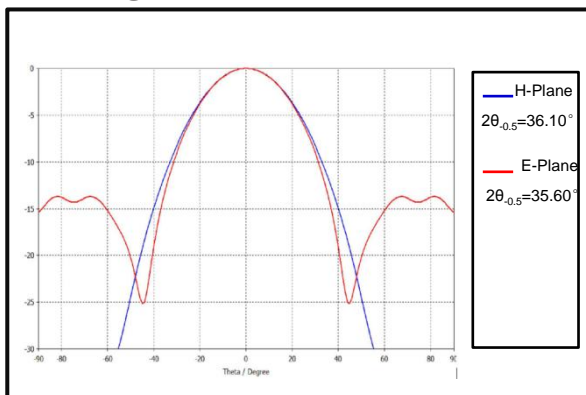
**Pattern @1.975GHz**



**Pattern @2.050GHz**

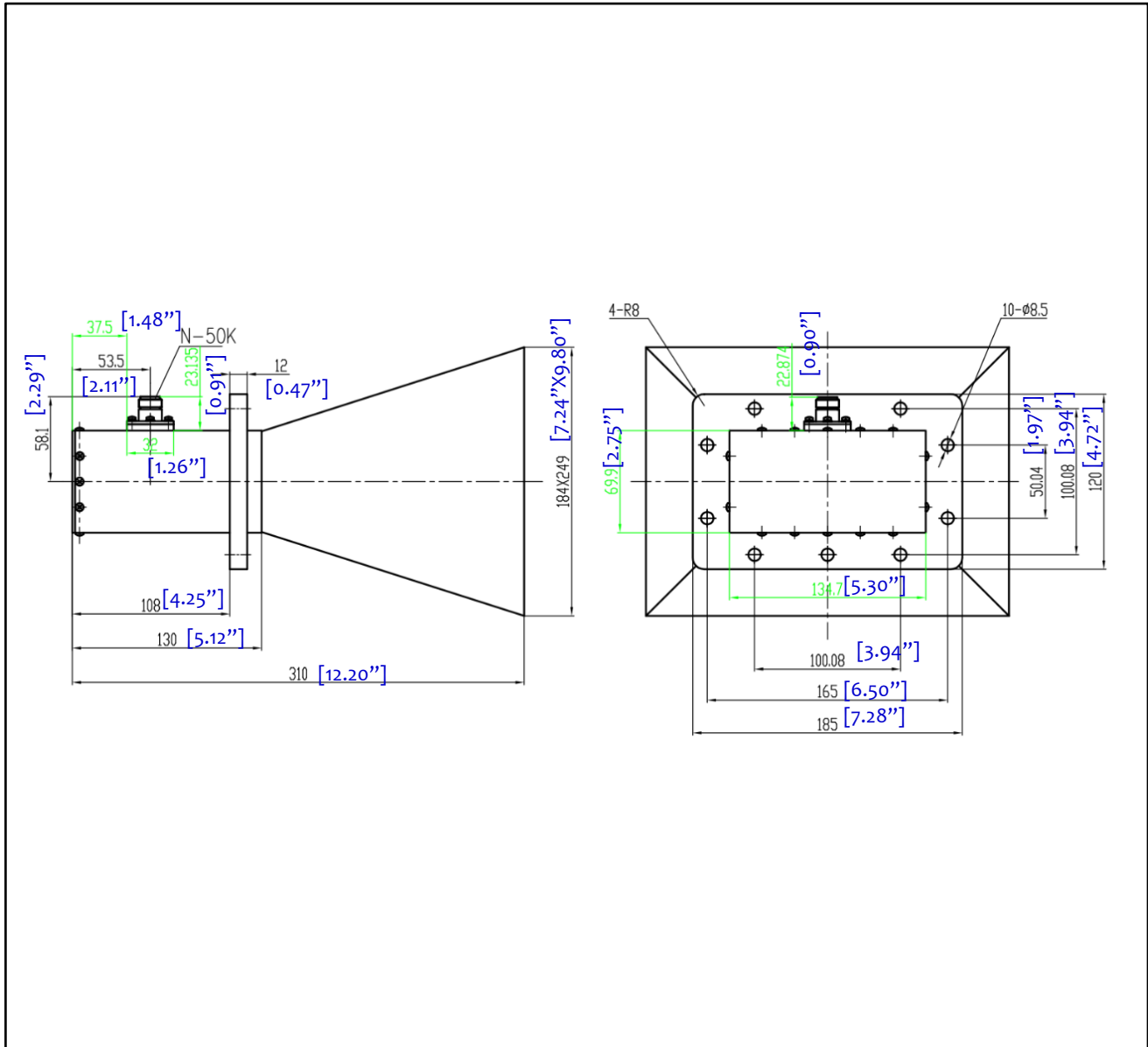


**Pattern @ 2.125GHz**



**Outline Drawing:**

All Dimensions in mm [inches]



**Standard Gain Horn Antenna 1.45 – 2.20GHz**

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