

Wideband Dual-Polarization Horn Antenna 2 - 18GHz



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

Features

- Wideband Dual Polarization Horn Antenna
- Compact Size
- Coaxial Interface

Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

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

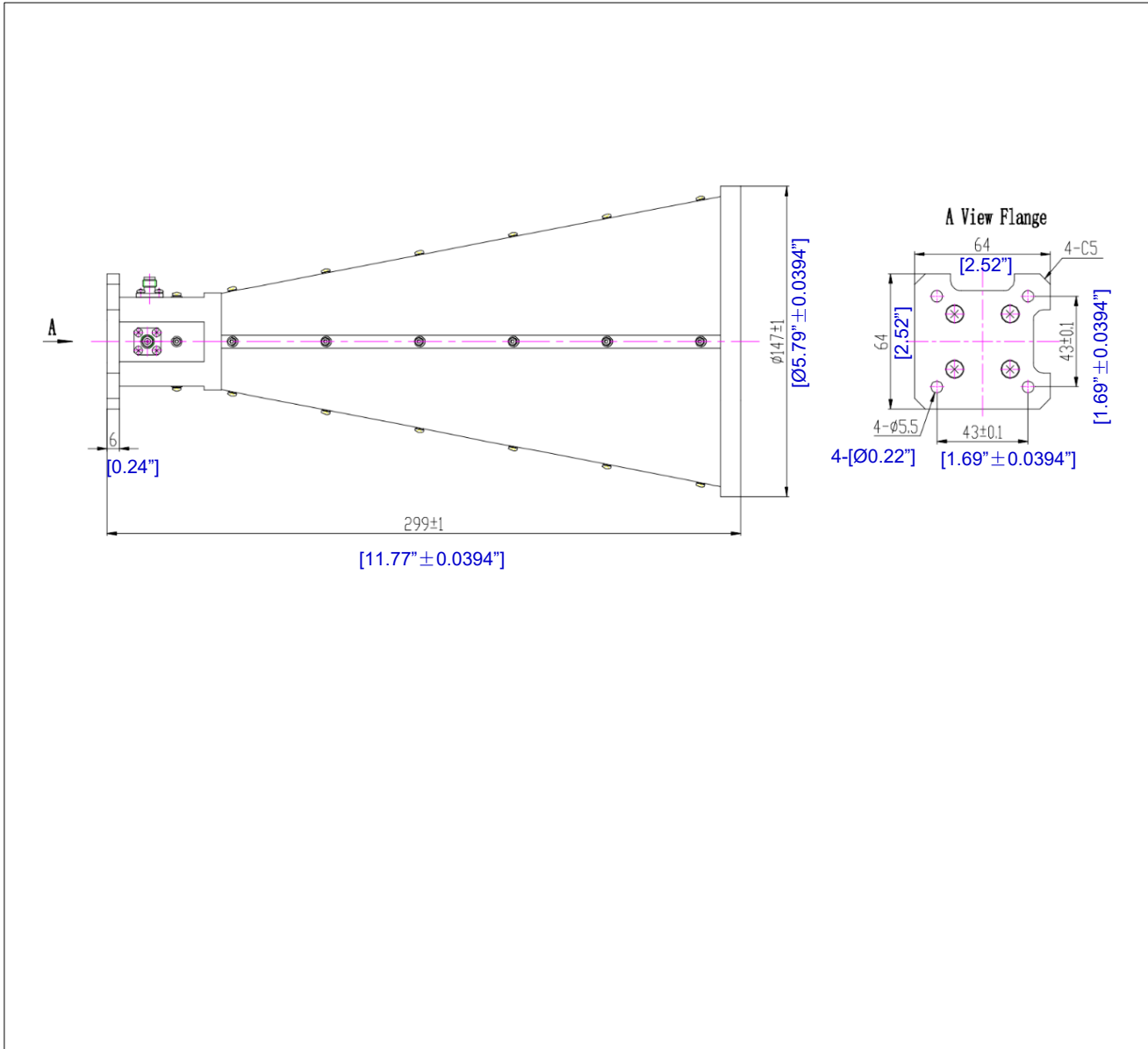
Parameter	Min.	Typ.	Max.	Units
Frequency Range	2-18			GHz
Gain @12GHz	12			dB
VSWR			2.5	: 1
E-Plane 3 dB Beamwidth,12GHz		20		°
H-Plane 3 dB Beamwidth,12GHz		16		°
Sidelobe Levels		15		dB
Polarization	Dual Linear Polarization			
Cross Polarization		20		dB
Impedance	50			Ω
Weight	42.329			Ounces
Connector Type	SMA-Female			
Material	Aluminum			
Finish	Painted			

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-55°C~+85°C (Case Temperature)
Storage Temperature	-55°C~+105°C
Thermal Shock	-55°C → +85°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)

Outline Drawing:

All Dimensions in mm [inches]



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