

ULTRA-WIDEBAND DIRECTIONAL ANTENNA

1.45 GHz TO 8 GHz

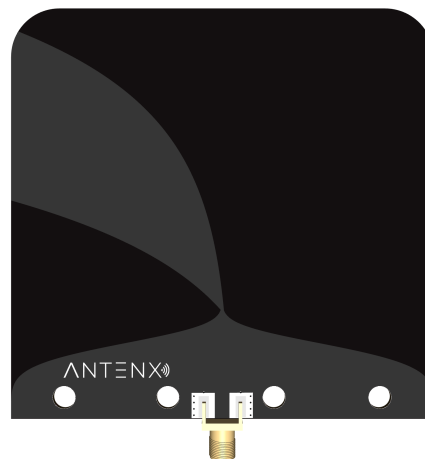
UWB1400-D

KEY FEATURES

- Very wide bandwidth from 1.45 GHz to 8 GHz
- Directional radiation patterns with end-fire gain up to 8.5 dBi
- VSWR typically below 2.5:1
- Very thin, lightweight, and compact
- Professionally designed and hand-tested by engineers in the United States

APPLICATIONS

- Measurement, test, and experimentation
- Wide bandwidth antenna for software-defined radios
- Cellular (2G, 3G, 4G LTE, 5G) and WiFi (2.4 GHz and 5.8 GHz)
- Electromagnetic surveillance and direction finding
- University research projects



UWB1400-D

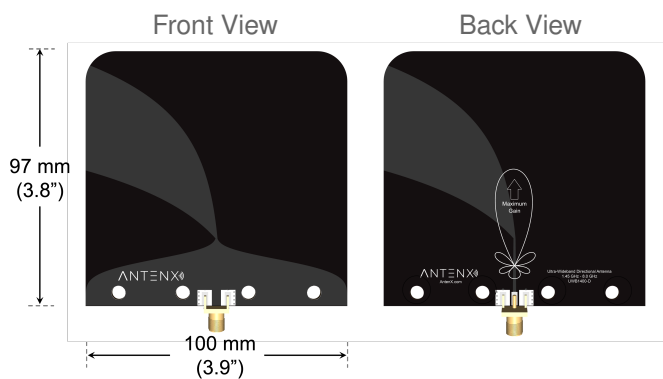
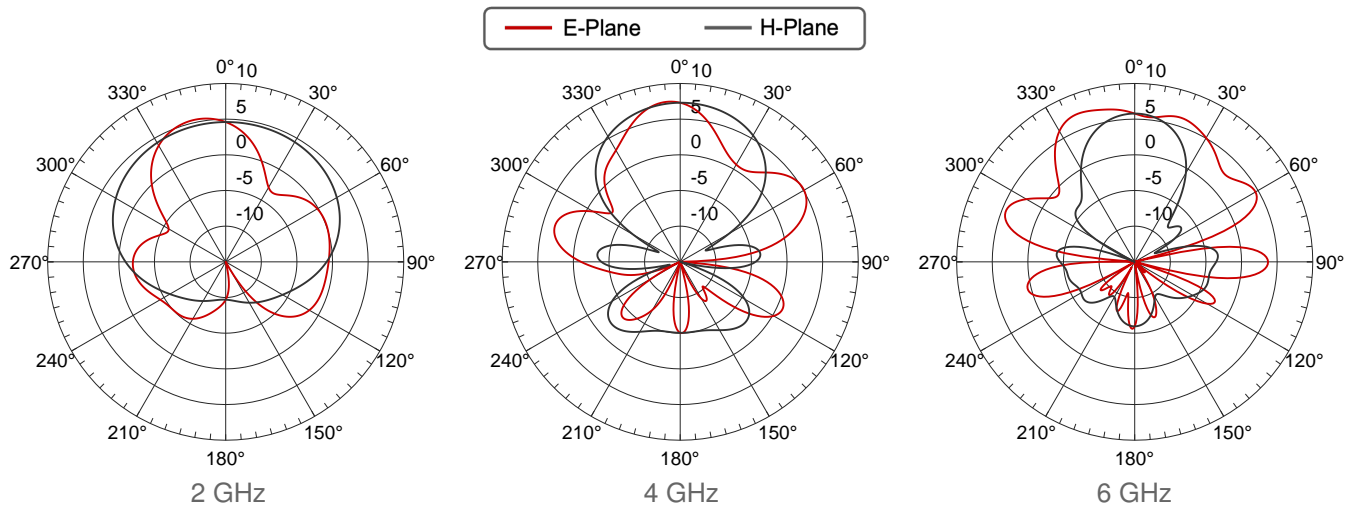
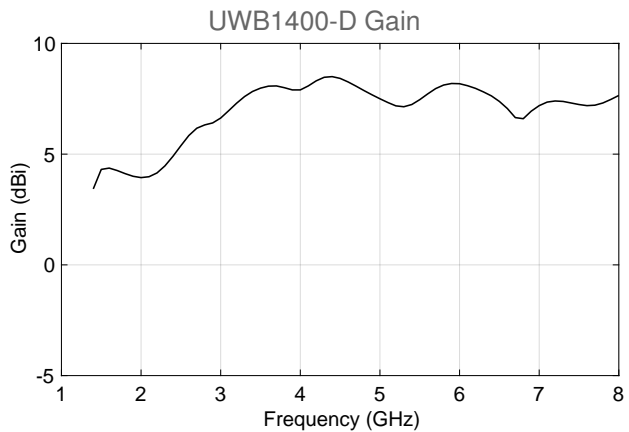
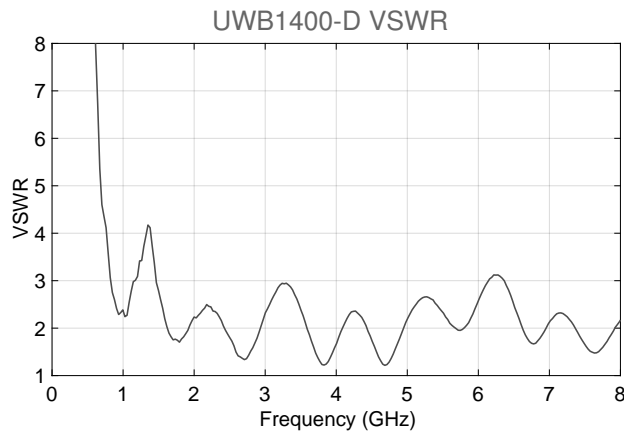
DESIGN SPECIFICATIONS

- Design: Antipodal Vivaldi
- Operating Frequency: 1.45 GHz to 8.0 GHz
- Polarization: Linear (horizontal/vertical based on orientation)
- Connector: SMA Female
- Body Material: FR-4
- Length: 3.8 in [97 mm]
- Width: 3.9 in [100 mm]
- Height: 0.25 in [6.35 mm] (including SMA connector)

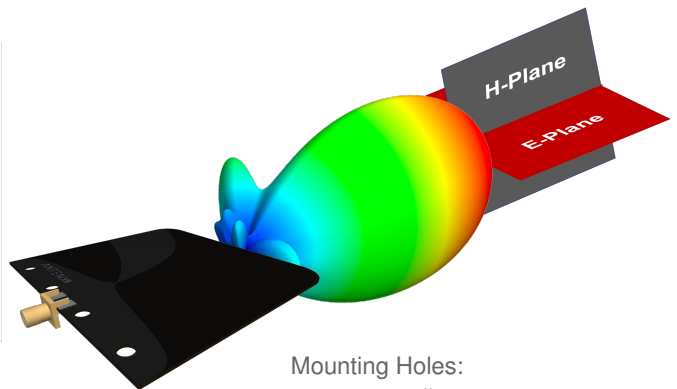
PERFORMANCE SPECIFICATIONS

Parameter	Frequency	Min.	Typ.	Max.	Unit	
VSWR	1.45 GHz – 8 GHz	1.2	2.0	3.1	–	
Gain	1.45 GHz – 8 GHz	3.4	7.5	8.5	dBi	
HPBW	1.45 GHz – 8 GHz	E-Plane	33	45	83	deg.
		H-Plane	42	75	169	
Input Power	1.45 GHz – 8 GHz	–	–	10	dBm	
Impedance	–	50			Ω	
Connector	–	SMA (female)			–	

TYPICAL PERFORMANCE



1.2 mm thick (6.35 mm thick including SMA connector)



Mounting Holes:

- 5 mm diameter
- 25 mm spacing