

ULTRA-WIDEBAND DIRECTIONAL ANTENNA

700 MHz TO 8 GHz

UWB700-D

KEY FEATURES

- Extremely wide bandwidth and consistent directional radiation patterns with end-fire gain up to 9 dBi
- VSWR typically below 2:1
- Very thin, lightweight, and compact for a broadband directional antenna operating down to 700 MHz
- 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) and WiFi (2.4 GHz and 5.8 GHz)
- Electromagnetic surveillance and direction finding
- University research projects



UWB700-D

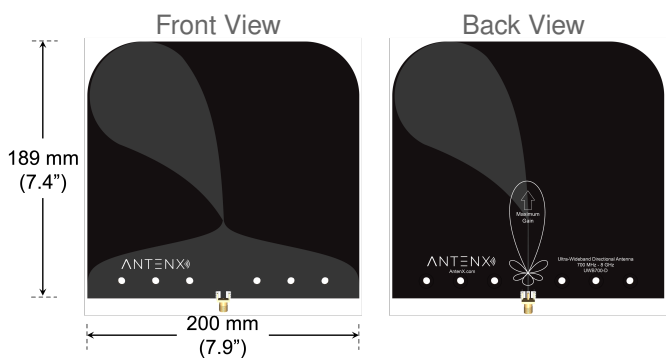
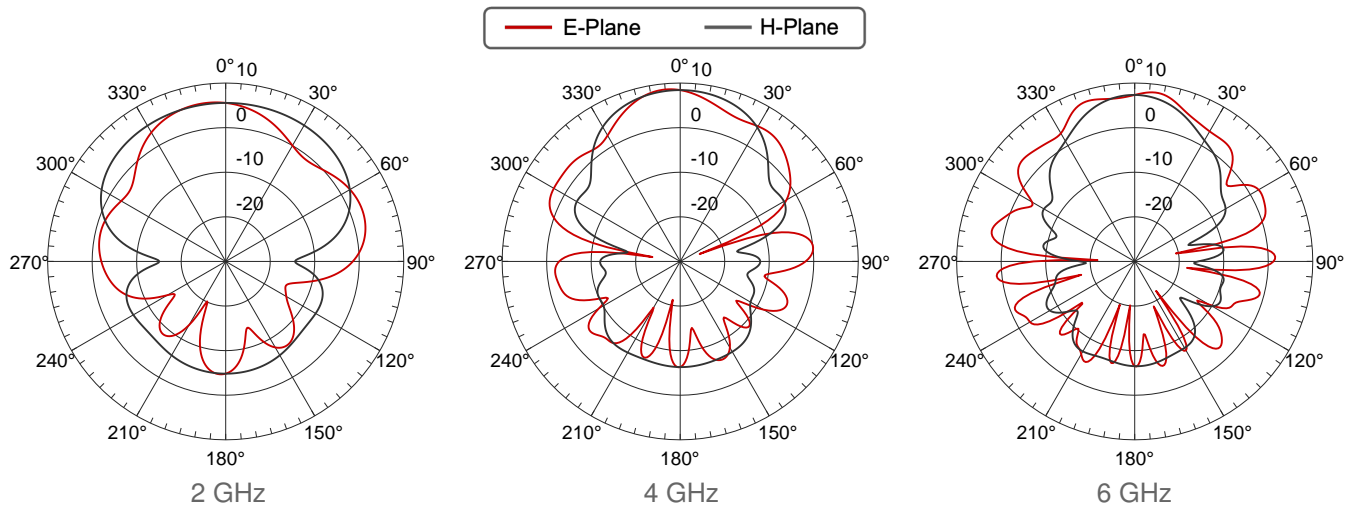
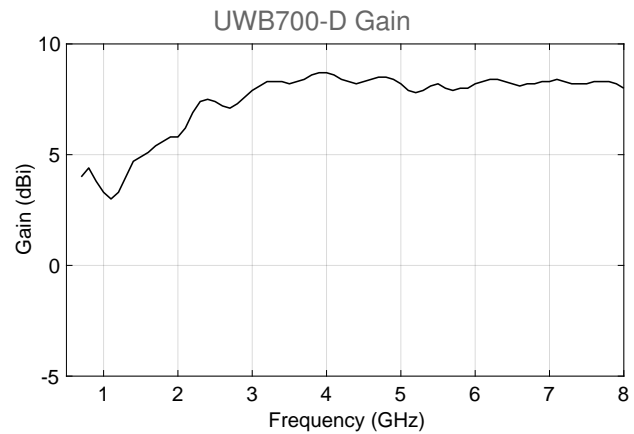
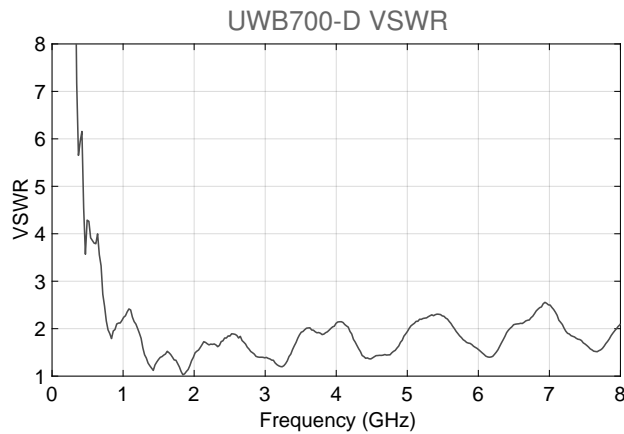
DESIGN SPECIFICATIONS

- Design: Antipodal Vivaldi
- Operating Frequency: 700 MHz to 8.0 GHz
- Polarization: Linear (horizontal/vertical based on orientation)
- Connector: SMA Female
- Body Material: FR-4
- Length: 7.4 in [189 mm]
- Width: 7.9 in [200 mm]
- Height: 0.25 in [6.35 mm] (including SMA connector)

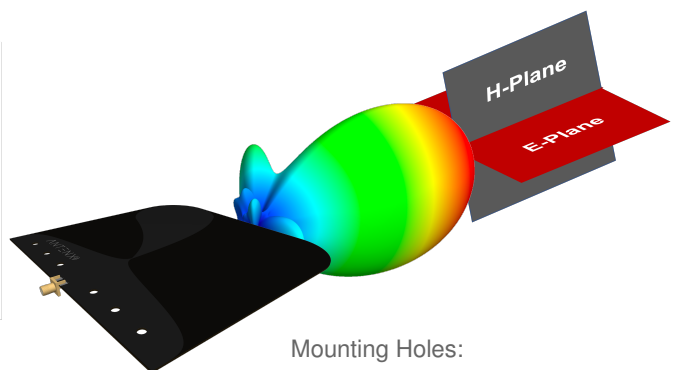
PERFORMANCE SPECIFICATIONS

Parameter	Frequency	Min.	Typ.	Max.	Unit	
VSWR	700 MHz – 1.2 GHz	1.9	2.3	3.0	-	
	1.2 GHz – 3.9 GHz	1.1	1.4	2.0		
	3.9 GHz – 8 GHz	1.4	1.9	2.6		
Gain	700 MHz – 8 GHz	3.0	8.0	8.7	dBi	
HPBW	700 MHz – 8 GHz	E-Plane	34	50	84	deg.
		H-Plane	31	60	153	
Input Power	700 MHz – 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