

BROADBAND OMNIDIRECTIONAL ANTENNA

700 MHz TO 2.5 GHz

UWB700-O

KEY FEATURES

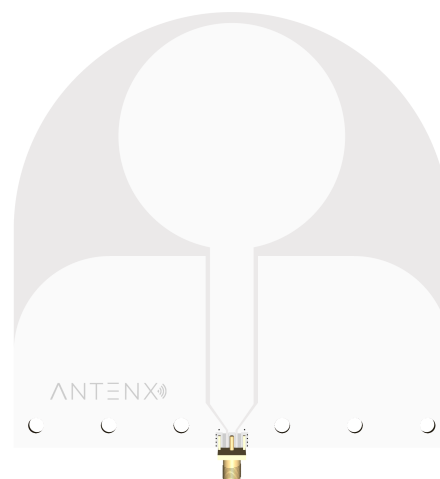
- Wide bandwidth and consistent omnidirectional radiation patterns
- VSWR better than 2:1 and a gain of over 4 dBi
- Very thin and lightweight for a broadband omnidirectional antenna operating down to 700 MHz
- Professionally designed, inspected, and hand-tested by engineers in the United States

APPLICATIONS

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

DESIGN SPECIFICATIONS

- Design: PCB Monopole
- Operating Frequency: 700 MHz to 2.5 GHz
- Polarization: Linear (horizontal/vertical based on orientation)
- Connector: SMA Female
- Body Material: FR-4
- Length: 5.9 in [150 mm]
- Width: 5.9 in [150 mm]
- Height: 0.25 in [6.35 mm] (including SMA connector)

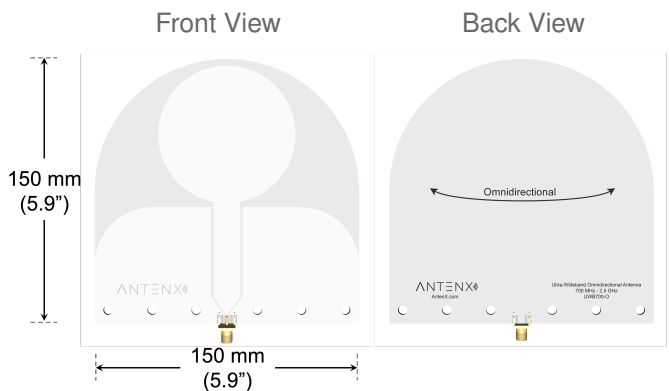
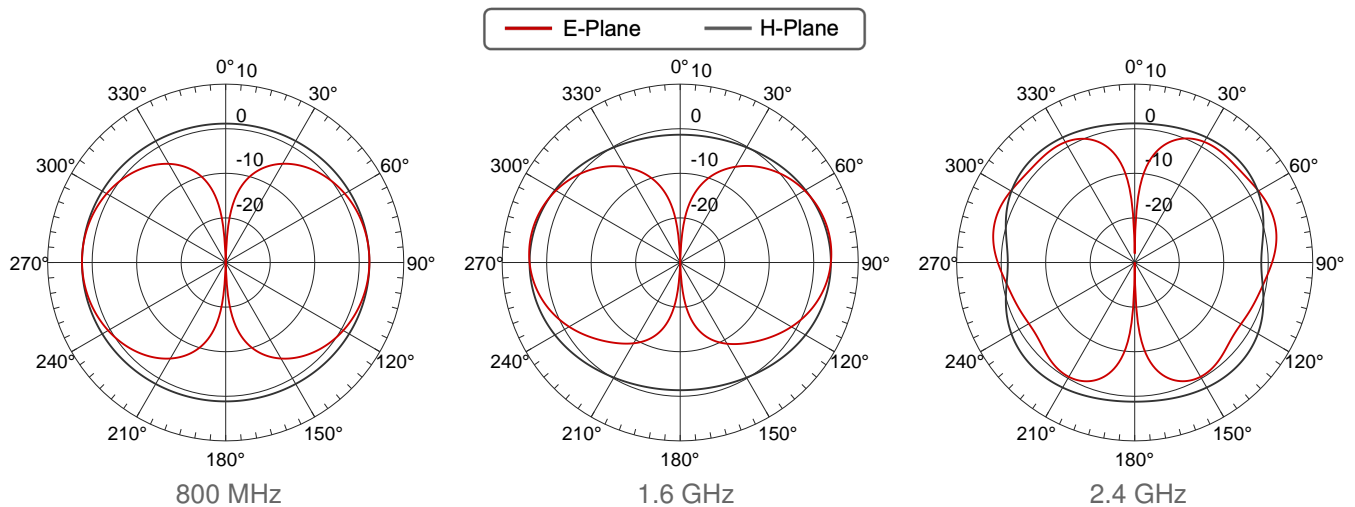
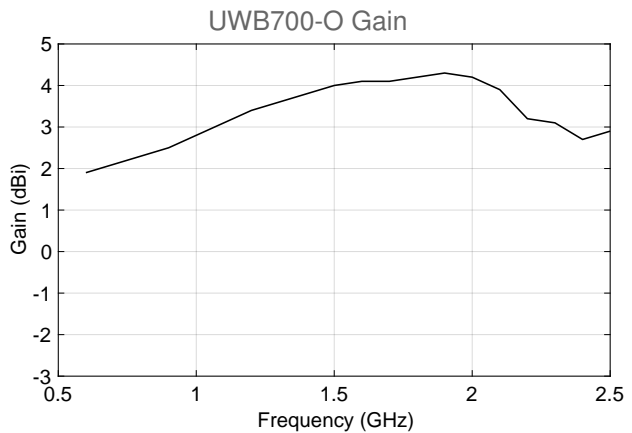
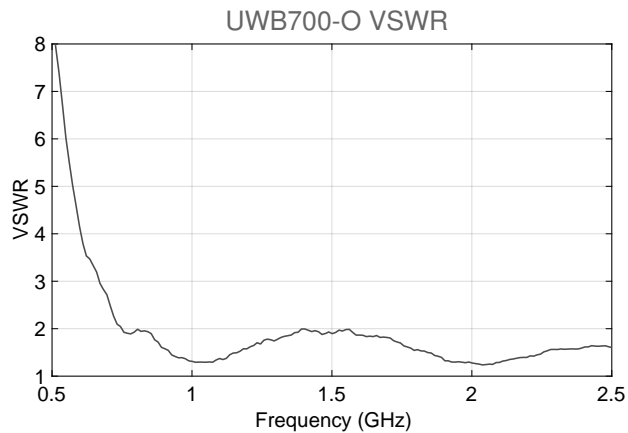


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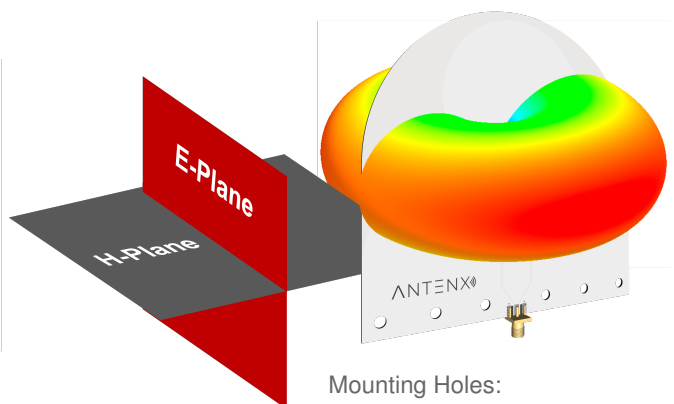
PERFORMANCE SPECIFICATIONS

Parameter	Frequency	Min.	Typ.	Max.	Unit
VSWR	700 MHz – 750 MHz	2.0	2.5	3.0	–
	750 MHz – 2.5 GHz	1.2	1.6	2.0	–
Gain	700 MHz – 2.5 GHz	2.1	3.5	4.3	dBi
HPBW (E-Plane)	700 MHz – 1.4 GHz	94	100	106	deg.
	1.45 GHz – 2.3 GHz	47	60	73	
	2.35 GHz – 2.5 GHz	52	75	98	
Input Power	700 MHz – 2.5 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