

BROADBAND OMNIDIRECTIONAL ANTENNA

1.8 GHz TO 6.0 GHz

UWB2000-O

KEY FEATURES

- Very wide bandwidth and consistent omnidirectional radiation patterns
- VSWR typically below 2:1 with gain up to 3.8 dBi
- Extremely compact, thin, and lightweight
- Professionally designed and hand-tested by engineers in the United States

APPLICATIONS

- Measurement, test, and experimentation
- Wide bandwidth antenna for software-defined radios
- Many cellular bands and WiFi (2.4 GHz and 5.8 GHz)
- Electromagnetic surveillance
- University research projects (e.g., radar)



UWB2000-O

PRODUCT OVERVIEW

The UWB2000-O is a broadband omnidirectional antenna that operates from 1.8 GHz to 6.0 GHz. This antenna exhibits consistent omnidirectional radiation patterns in an extremely compact, lightweight, and slim form-factor (see figure on next page for radiation patterns and E-plane/H-plane orientation). This antenna has numerous applications including laboratory test and measurement, research and development, and experimentation with software defined radios. All antennas are designed, inspected, and tested by engineers in the USA to ensure reliable high-performance.

PERFORMANCE DATA

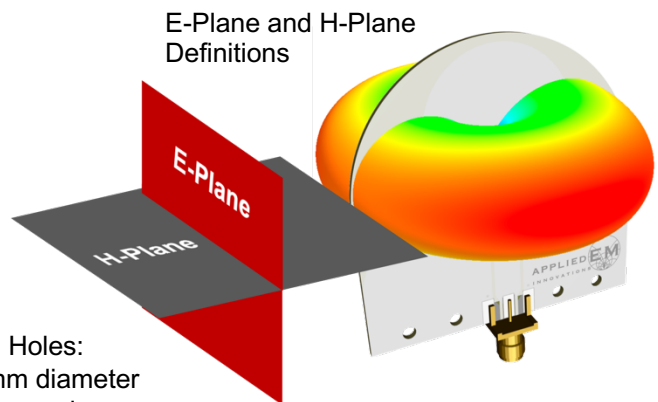
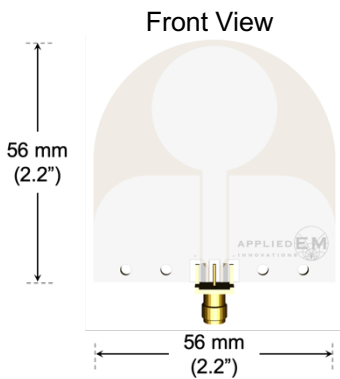
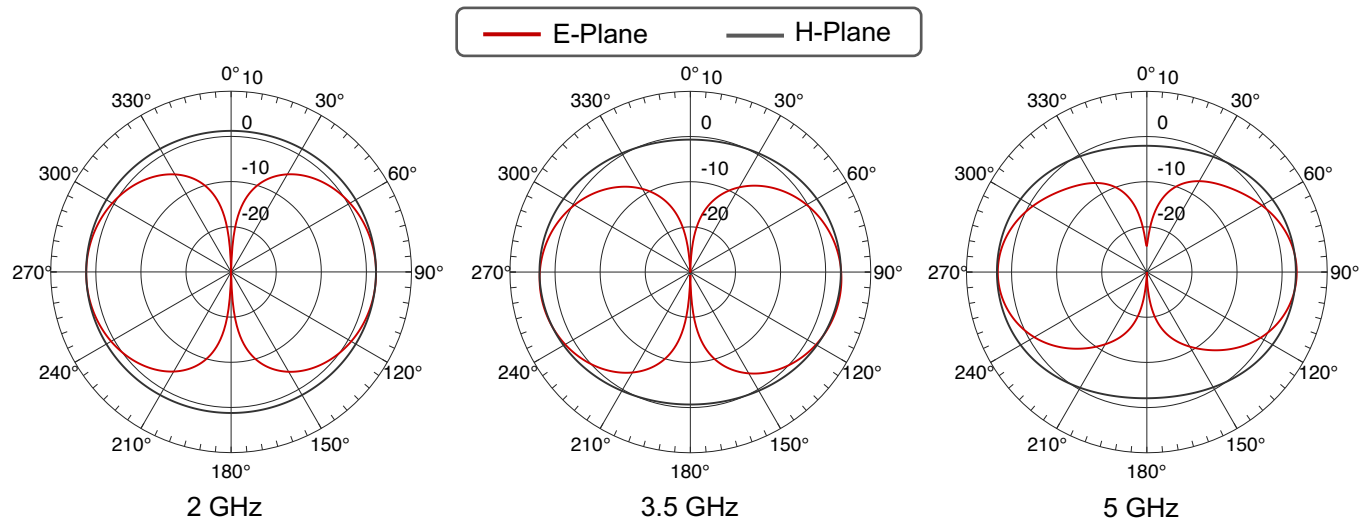
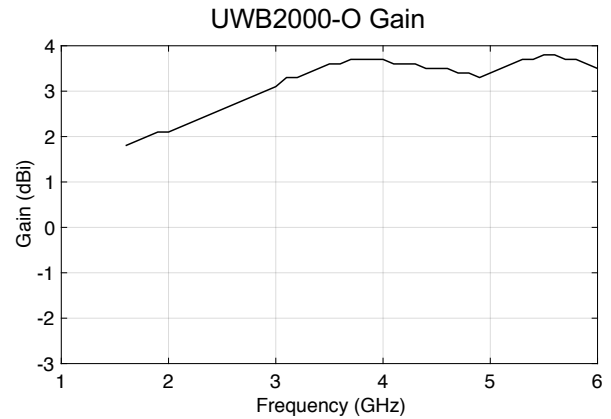
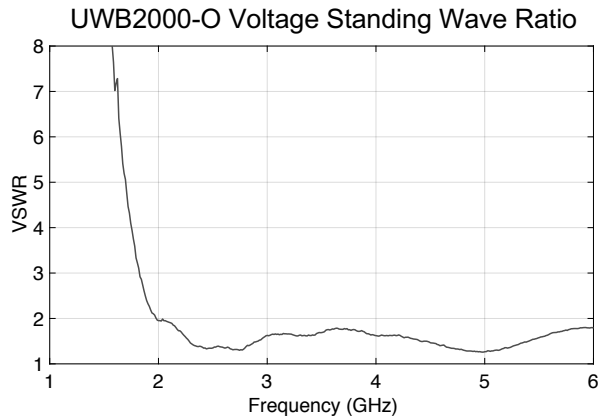
Parameter	Frequency	Min.	Typ.	Max.	Unit
VSWR	1.8 GHz – 2.0 GHz	2.0	2.5	3.0	—
	2.0 GHz – 6.0 GHz	1.3	1.6	2.0	—
Gain	1.8 GHz – 6.0 GHz	1.6	3.5	3.8	dBi
HPBW (H-Plane)	1.8 GHz – 6.0 GHz	50	65	84	deg.
Input Power	1.8 GHz – 6.0 GHz	—	—	10	dBm
Impedance	—	50			Ω
Connector	—	SMA (female)			—

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PERFORMANCE DATA (CONT.)



1.2 mm thick
(6.35 mm thick including SMA connector)

- Mounting Holes:
- 2.5 mm diameter
 - 9 mm spacing