

## BROADBAND OMNIDIRECTIONAL ANTENNA

700 MHz TO 2.5 GHz

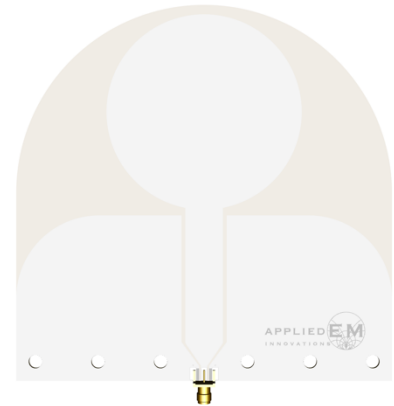
UWB700-O

### 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



UWB700-O

### PRODUCT OVERVIEW

The UWB700-O is a broadband omnidirectional antenna that operates from 700 MHz to 2.5 GHz. This antenna exhibits consistent omnidirectional radiation patterns in a compact, lightweight, and slim form-factor (see figure on next page for radiation patterns and E-plane/H-plane orientation). This versatile 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

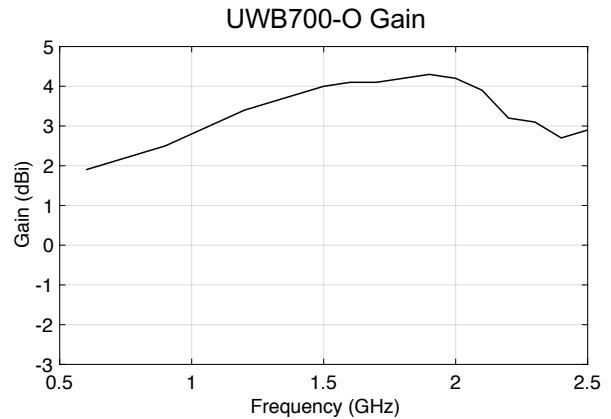
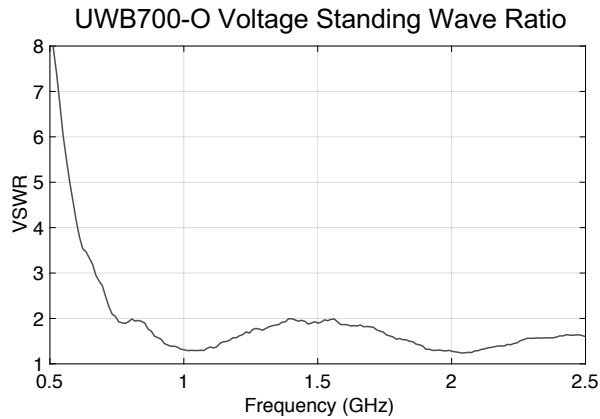
Parameter	Frequency	Min.	Typ.	Max.	Unit
VSWR	700 MHz – 750 MHz	2.0	2.5	3.0	—
	750 MHz – 2.5 GHz	1.2	1.6	2.0	
Gain	700 MHz – 2.5 GHz	2.1	3.5	4.3	dBi
HPBW (H-Plane)	700 MHz – 1.4 GHz	94	100	106	deg.
	1.45 GHz – 2.3 GHz	47	60	73	
	2.35 GHz – 2.5 GHz	52	75	98	
Input Power	700 MHz – 2.5 GHz	—	—	10	dBm
Impedance	—	50			$\Omega$
Connector	—	SMA (female)			—

# BROADBAND OMNIDIRECTIONAL ANTENNA

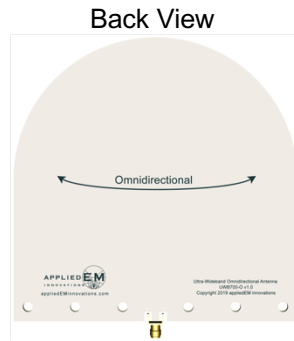
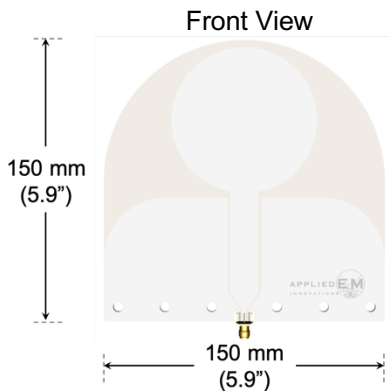
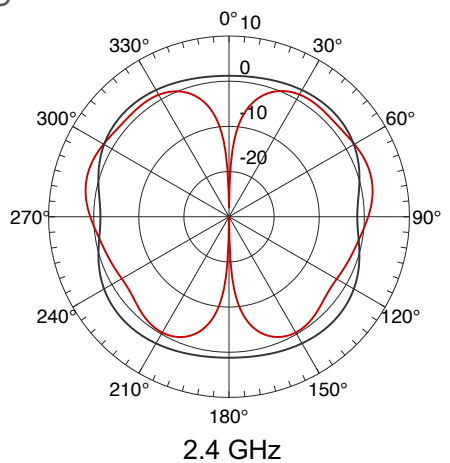
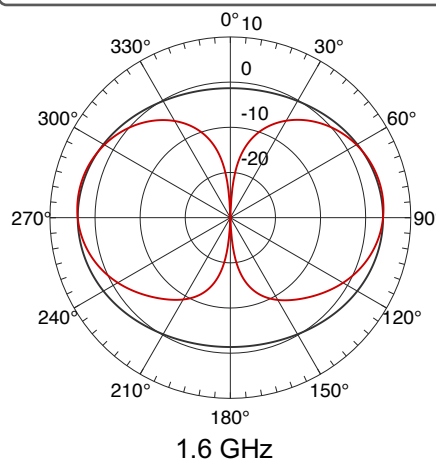
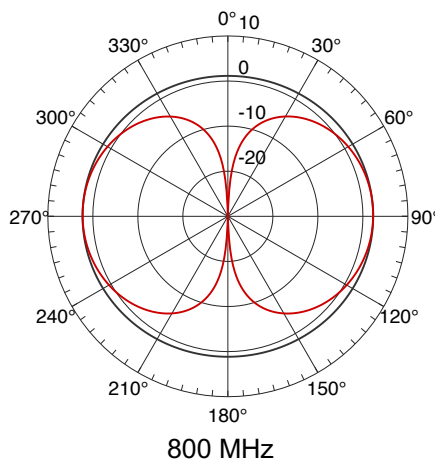
700 MHz TO 2.5 GHz

UWB700-O

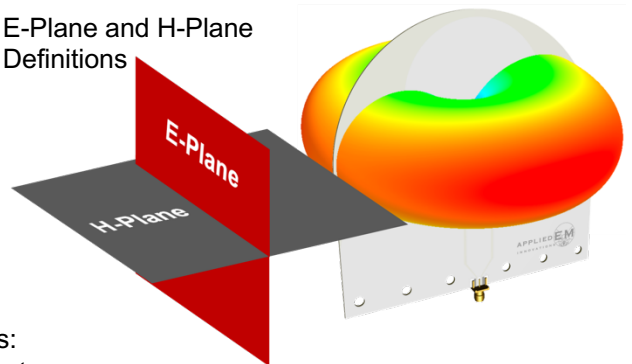
## PERFORMANCE DATA (CONT.)



— E-Plane — H-Plane



E-Plane and H-Plane Definitions



1.2 mm thick  
(6.35 mm thick including SMA connector)

Mounting Holes:  
• 5 mm diameter  
• 25 mm spacing