

ULTRA-WIDEBAND DIRECTIONAL ANTENNA

400 MHz TO 8 GHz

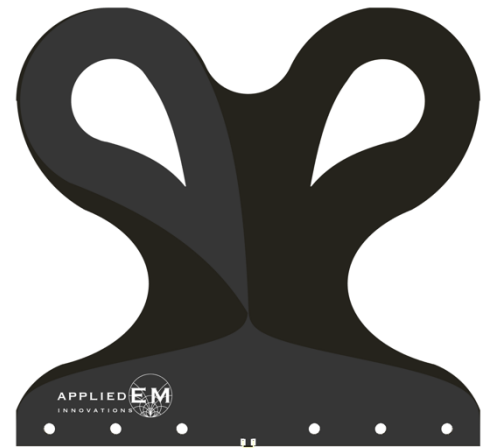
UWB400-D

KEY FEATURES

- Extremely wide bandwidth and consistent directional radiation patterns
- VSWR typically below 2:1 with gain up to 9.6 dBi
- Very thin, lightweight, and compact for a broadband directional antenna operating down to 400 MHz
- Professionally designed and hand-tested by engineers in the United States

APPLICATIONS

- Measurement, test, and experimentation
- Wide bandwidth antenna for software-defined radios (SDRs)
- Cellular (2G, 3G, 4G LTE) and WiFi (2.4 GHz and 5.8 GHz)
- LoRa and the Internet of Things (IoT)
- Electromagnetic surveillance and direction finding
- University research projects (e.g., radar)



UWB400-D

PRODUCT OVERVIEW

The UWB400-D is an ultra-wideband directional antenna that operates from 400 MHz to 8 GHz. Using state-of-the-art design techniques and the latest research in applied electromagnetics, this high-performance antenna was designed to achieve an extremely wide bandwidth and very consistent radiation patterns in a compact and slim form-factor. This versatile antenna has numerous applications including laboratory test and measurement, research and development, and experimentation with software defined radios.

PERFORMANCE DATA

Parameter	Frequency	Min.	Typ.	Max.	Unit	
VSWR	400 MHz – 650 MHz	2.0	2.3	3.0	—	
	650 MHz – 3.8 GHz	1.1	1.5	2.0		
	3.8 GHz – 8 GHz	1.2	2.0	2.9		
Gain	400 MHz – 8 GHz	3.1	8.0	9.6	dBi	
HPBW	400 MHz – 8 GHz	E-Plane	25	50	84	deg.
		H-Plane	27	40	129	
Input Power	400 MHz – 8 GHz	—	—	10	dBm	
Impedance	—	50			Ω	
Connector	—	SMA (female)			—	

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PERFORMANCE DATA (CONT.)

