

Ultra Wideband Log Periodic Antenna

2000-1617

Overview

The challenge – design a sophisticated, ultra high-gain, highly versatile Log Periodic Antenna (LPA) with excellent linearity while covering the broadest frequency range possible. Don’t forget to make it small, ruggedized, deployable, and cost-effective without sacrificing performance over the entire spectrum. The answer – the all new Ultra Wideband Log Periodic Antenna from Anritsu. This LPA has been optimized using state-of-the-art genetic algorithms and electromagnetic simulation tools. Its gain and efficiency have been maximized to give the greatest directional sensitivity from 600 MHz to 21 GHz. The nominal gain of the antenna is 5-8 dBi up to 12 GHz and excellent performance and superior front to back ratio to 21 GHz and beyond. The antenna offers the finest direction finding sensor for localizing the origin of transmitting equipment. It covers the frequencies you need to locate most often – and then some. A perfect blend of performance and quality make this unit ideal for SIGINT and multiband communications applications. A pivoting handle and ratcheting mechanism allows for instant polarity changes. It also includes a 1/4-20 tripod mount on the base.



A 360 degree rotating/removable handle is integrated for instant polarity changes allowing the operator to intercept both horizontal and vertically polarized signals. A base-mounted 1/4-20 thread is installed for tripod mounting and fixed installation.

Specifications

Electrical

Frequency Range	600 MHz to 21 GHz
Impedance	50 Ohms, nominal
Antenna Gain	Approximately 5-8 dBi to 12 GHz Approximately 0-6 dBi to 21 GHz
VSWR	<2:1, average
Maximum Continuous Power	10 Watts
Average Beamwidth	E Plane: 70° H Plane: 125°
Environmental	-35° C to +85° C

Mechanical

Connector	Precision Type-N female
Housing	Ruggedized ABS Black, non-glare finish
Dimensions	Length: 31.24 cm (12.30") Width: 21.25 cm (8.37") Depth: 1.47 cm (0.53" blade) 3.32 cm (1.31" handle) Weight: 05 kg (.11 lb.)
Polarity	Pivoting Handle, 90° E & H Field
Mounting	Standard 1/4-20 thread

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