COM-POWER CORPORATION

Features

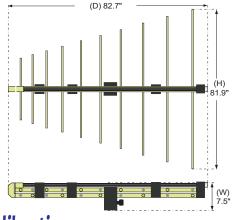
- Frequency Range 88 MHz to 108 MHz (usable from 80 MHz to 120 MHz)
- Transmit & Receive Capabilities emissions/immunity applications
- Individual Calibration Included per SAE ARP 958 with NIST traceability
- Three-year Standard Warranty

Description

The **ALFM-80120** is a linearly polarized Log Periodic Dipole Array (LPDA) Antenna, operating over the frequency range of 80 MHz to 120 MHz. This antenna is geared specifically for high power applications up to 2500 watts.

Construction

The **ALFM-80120** is designed to be extremely durable, making it an ideal choice for daily use in laboratory environments, both indoors and outdoors, and even under continuous exposure to extreme weather conditions. The antenna is constructed using a heavy guage, high grade, corrosion resistant aluminum.



Calibration

Each antenna is individually calibrated per SAE ARP 958 with NIST traceability. The calibration data and certificate is provided. Recognized ISO 17025 accredited calibration is also available upon request.

Application

The **ALFM-80120** Power Log Periodic Antenna is primarily intended for use as a transmitting antenna for establishing radiated RF fields for product immunity tests, and is capable of handling power levels up to 2500 Watts.

The **ALFM-80120** is also suitable for use as an EMI test antenna for qualification-level regulatory compliance measurements (FCC, CE, RTCA DO-160, FDA, SAE Automotive, etc.).

Notwithstanding the above applications, the **ALFM**-**80120** can also be used for test site comparisons, shielding effectiveness tests of large enclosures, field monitoring, site surveys and other general purposes.

Mounting

The mounting assembly for the the **ALFM-80120** incorporates a hinge mechanism to quickly and easily change the antenna polarization.

The assembly is equipped with a standard 1/4-inch x 20 mounting hole, which allows it to be affixed to Com-Power's **AT-812** Antenna Tripod, **AM-400** Antenna Mast, or any other similar structure with compatible mounting arrangements.



Power Log Periodic Antenna

Specifications

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Product Name	Power Log Periodic Antenna
Frequency Range	88 MHz to 108 MHz (usable from 80 MHz to 120 MHz)
Polarization	Linear
Nominal Impedance	50Ω
Power Handling	2500 Watts (continuous)
Connector	7-16 DIN (female)
Antenna Factor	6 to 8 [dB(m ⁻¹)]
Isotropic Gain	1.5 to 5 dBi (@ 1 mtr)
VSWR	<1.3 (80 to 88 MHz)
	<1.25 (88 to 108 MHz)
	<1.45 (108 MHz to 120 MHz)
Dimensions (H x W x D)	7.5 x 81.9 x 82.7 Inches [19 x 208 x 210 cm]
Weight	13.5 lbs. [6.1 kg]
NI specifications are subject to change without notice	



Accessories available

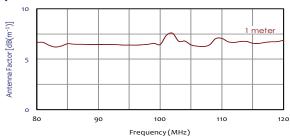
SPA-900TG Series Spectrum Analyzers

Also Available:

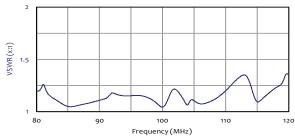
AL-130R Active Loop Antenna AM-741R Active Monopole Antenna AB-900A/ABF-900A Biconical Antennas

All specifications are subject to change without notice. All values are typical, unless specified.

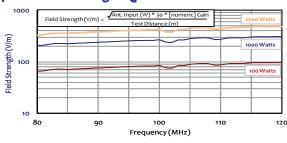
Typical Antenna Factors



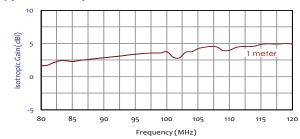
Typical Voltage Standing Wave Ratio (VSWR)



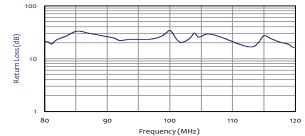
Typical Field Strength @ 1 meter



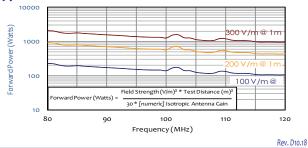
Typical Isotropic Gain



Typical Return Loss



Typical Forward Power Levels



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