

EM-6115 | Wideband Discone Antenna



Description

The EM-6115 is a broadband collinear array allowing very wide Omni-Directional frequency coverage in a single package. Below approximately 100 MHz, the EM-6115 acts as an active vertical rod which offers 10 to 12 dB greater unsaturated instantaneous dynamic range than competitive antennas (overload field strength: 2 V/meter) which greatly reduces intermodulation-generated signals in a typical real-world RF environment.

In the congested spectrum above 100 MHz, the antenna is passive and contributes no intermodulation products so the overload point is determined solely by the receiving instrument. This immunity to overload can often make the difference between useful signal output and an indecipherable jumble of spurious products and is accomplished without compromising sensitivity. The antenna collapses for convenient storage and transport.

Specifications

Electrical

Frequency range (calibrated):	10 kHz–2 GHz
Impedance:	50 Ohms, nominal
Connectors:	<ul style="list-style-type: none"> • Calibration In: Type N, female • Signal Out: Type N, female
Overload	2 V/m below 50 MHz (+5 dBm at output connector)
Power Supply:	<ul style="list-style-type: none"> • AC Power Source: 90–265 VAC, 47–440 Hz • DC Power Source: 18 V rechargeable battery (Sealed lead acid) • Operating Time: 8 hours, nominal (between recharging) • Recharge Time: 12 hours, nominal • Fuse: 0.5 AMP 2AG FAST ACTING (subminiature)

Mechanical

Height:	<ul style="list-style-type: none"> • Without upper rod: 597 mm (23.5") • With upper rod: 832 mm (32.75") • Upper antenna rod: 254 mm (10") • Fully extended: 177.8 cm (70") • Lower radial elements: 394 mm (15.5")
Diameter:	<p>Stowed configuration: 114 mm (4.5") Deployed configuration: 457 mm (18") Antenna disk: 321 mm (12.6")</p>
(Counterpoise) Base Dimensions:	<ul style="list-style-type: none"> • Height: 76 mm (3.0") • Width: 210 mm (8.25") • Depth: 210 mm (8.25") • Weight: 4.5 kg (10 lbs)

Specifications subject to change without notice, unless otherwise specified. Product is manufactured in Johnstown, NY, U.S.A.

