

## MT-3005

20-100 MHz, 5dBi, VHF Log-Periodic Antenna

### Electrical

Frequency Range	20 – 100MHz
Gain	20-25 MHz 0.5 dBi 26-30 MHz 3 dBi 31-40 MHz 4 dBi 41-100 MHz 5 dBi
Polarization	Adjustable linear Vertical or Horizontal
VSWR	3.5:1 max
Input Impedance	50 $\Omega$
AZ Beam width	130° typ
EI Beam width	60° typ
Input Power	1500 Watt CW
F/B Ratio	20-25 MHz 2 dB max 26-30 MHz 6 dB max 31-100 MHz 15 dB max

### Mechanical

Length of Antenna's Boom	4.2 m
Length of Longest Element	2 x 2.05 m
Antenna Weight	27 kg
Connector	N-Type female

### Environmental

Temperature operational	-30°C to +71°C
Temperature storage	-40°C to +85°C
Wind Speed	120 km/hr
Humidity	Up to 95% as per MIL-STD-810E, Method 507.3, Proc I, Fig 507.3-1, Cycle III
Rain	10 cm/hr as per MIL-STD-810E, Method 606.3, Proc I or III
Snow	350 kg/m <sup>2</sup> over a flat surface only
Icing	Load up to 20 mm
Vibration	Per MIL-STD-810E, Method 514.4, Fig 514.4-1,2,3
Shock	Per MIL-STD-810E, Method 516.4, Proc I, 20g, half sine, 6-9 msec
Drop	Transit Drop per MIL-STD-810E, Method 516.4, Proc IV. Single drop on critical axis, 0.5 m high over sand.
Solar Radiation	Up to 1120 watt/m <sup>2</sup>

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