

# 12-190-60

# CHELTON

## Low Profile V/UHF L-Band Tuned Antenna

### Key features:

- **Multi-Band Tuneable**
- **Lightning Protection**
- **Gain of -14.5dBi at 30MHz**
- **Guard performance at 121.5 MHz and 243MHz in all bands.**
- **Lightning Protected**

Type 12-190-61 is a low profile, high efficiency, PIN diode tuned, antennas.

Intended for general airborne application, and operating over the frequency ranges 30 MHz to 88 MHz, 108 MHz to 174 MHz and 225 MHz to 400 MHz.



Similar to 12-190-61, but with 10 mounting holes.

### ELECTRICAL

<b>Frequency Range (MHz)</b>	30-88
	108-174
	225-400
<b>Impedance</b>	50 Ω
<b>VSWR</b>	30-88 MHz: ≤2.5:1
	30- 88 MHz: ≤2.5:1
	108- 174 MHz: ≤2.5:1
	225- 299.9 MHz: ≤2.3:1
	300- 400 MHz: ≤2.0:1
<b>Gain</b>	30 MHz: ≥-14.5 dBi
	40 MHz: ≥-12.0 dBi
	50 MHz: ≥-11.0 dBi
	70 MHz: ≥-6.0 dBi
	88 MHz: ≥-4.5 dBi
	108 MHz: ≥-4.0 dBi
	121.5 MHz: ≥-2.5 dBi
	130 MHz: ≥-1.5 dBi
	137 MHz: ≥-1.5 dBi
	156 MHz: ≥-5 dBi
	174 MHz: ≥-5 dBi
	225- 400 MHz: ≥0 dBi
<b>Polarisation</b>	Vertical
<b>Radiation</b>	Omnidirectional

### MECHANICAL

<b>Dimensions (LxWxH)</b>	315 x 71 x 235 mm
<b>Weight</b>	1.6 kg
<b>Connector</b>	TNC female
<b>Platform(s)</b>	Air

### ENVIRONMENTAL

<b>Standards</b>	MIL-STD-810 MIL-E-5400
<b>Continuous Operating Temperature</b>	- 54°C Min + 71°C Max
<b>Altitude</b>	70000 ft
<b>Vibration</b>	MIL-STD-810D, Method 514.3, Procedure 1

