

# 19-4001

# CHELTON

## UHF SATCOM Antenna

Low Angle 30-512MHz

High Angle 240-400MHz

### Key features:

- **Combined broadband V/UHF**
- **Enables LOS and BLOS**
- **Low profile**



The 19-4001 is a combined broadband VHF/UHF communications and UHF satellite communications antenna. It covers the frequency bands 30-88 MHz and 108-174 MHz for communications, 225-400 MHz for Line-of-Sight (LOS) and Beyond Line-of-Sight (BLOS) satellite communications, and 400-512 MHz for Special UHF requirements.

In addition, the antenna may be used for either UHF communications or LOS UHF satellite communications (but not both simultaneously) purposes as required.

The antenna is low profile in construction and is designed for general airborne application in high temperature environments.

### ELECTRICAL

<b>Frequency</b>	30-512 MHz 240-400 MHz
<b>Power Handling</b>	30 - 88 MHz 50W max 108 - 174 MHz 50W max 225 - 512 MHz 200W max
<b>Impedance</b>	50 $\Omega$
<b>VSWR</b>	30 - 512 MHz < 2.5:1 240 - 400 MHz < 2.0:1
<b>Gain</b>	30 MHz: $\geq$ -26 dBi 88 MHz: $\geq$ -15 dBi 118-174 MHz: $\geq$ -6.5 dBi (average full band) 225-512 MHz: $\geq$ 0 dBi (average full band)
<b>Polarisation</b>	Vertical

### MECHANICAL

<b>Dimensions (LxWxH)</b>	403.9 x 92.86 x 208.3 mm
<b>Weight</b>	3.7 kg
<b>Connector</b>	TNC Female

### ENVIRONMENTAL

<b>Continuous Operating Temperature</b>	- 40°C Min + 120°C Max
<b>Altitude</b>	50,000 ft

