



## **SIGNAL ANTENNA SYSTEMS**

### **CPHA SERIES TELEMETRY ANTENNAS**

**CPHA SERIES:** Circularly Polarized, C-Band horn antennas covering frequency range from 4.0 to 6.0 GHz. These circularly polarized, directional antennas are optimized for C-Band telemetry application within the 4.40 to 5.85 GHz frequency range. With 10 dB nominal gain they can be used as stand alone directional antennas (standard U-bolt mast mounting). They can also be used as feeds in parabolic reflector antennas with low F/D ratio to realize higher gain, directional antennas. Right and Left Hand Polarization antennas are available. Other applications include test and measurement, microwave radio links, and wireless communication.

#### **PERFORMANCE CHARACTERISTICS**

<b>ELECTRICAL</b>	
Frequency Range	4,000 – 6,000 MHz
Gain	10 dBi (Nom. @ 5.0 GHz)
3-dB Beamwidth (Elevation)	50°
3-dB Beamwidth (Azimuth)	72°
Polarization	CPHA-040610-RH-1000 - Right Hand Circular CPHA-040610-LH-1000 - Left Hand Circular
Axial Ratio	2.0 dB max over 4,000 – 6,000 MHz 1.5 dB max over 4,400 – 5,850 MHz
VSWR	1.8:1
Impedance	50 Ohm (Unbalanced)
Power Handling	250 W (CW)
<b>MECHANICAL</b>	
Dimensions	6.0" x 4.2" x 3.6"
Weight	1.5 lbs (max)
Mounting	U-Bolt or see drawing
Interface	N-Type Female
<b>ENVIRONMENTAL</b>	
Operating Temperature	-55° to 75°
Altitude	50,000 ft
Wind Survival	100 mph

