

# C & X-BAND STUB ANTENNA

## MODEL 845CX-2



SUPPLYING HIGH PERFORMANCE FLIGHT INSTRUMENTATION, RF/MICROWAVE ASSEMBLIES, POWER AMPLIFIERS, IFF AND DATA ACQUISITION SYSTEMS FOR SEVERE ENVIRONMENTS.

### DESCRIPTION

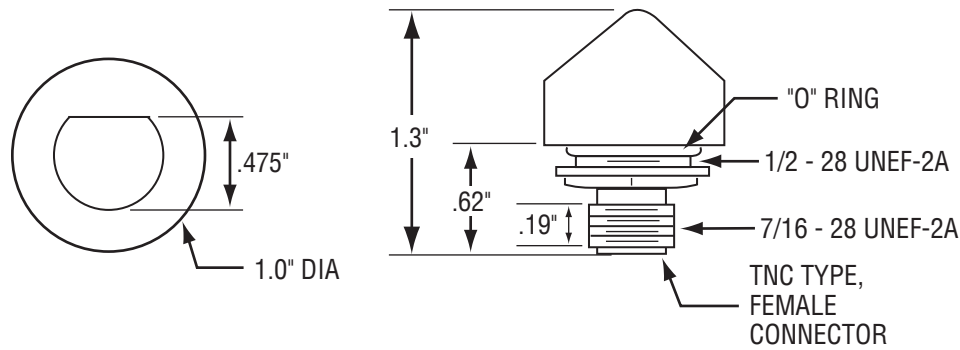
The Model 845CX-2 Stub Antenna was developed for airborne applications in association with either C-Band or X-Band transponders. The antenna is a vertical polarized omnidirectional antenna enclosed within a radome. The antenna is characterized by its compactness and is extremely lightweight while still maintaining the electrical and environmental characteristics required by this type of antenna.

The skin of the vehicles serves as the ground plane for the antenna due to the simplified mounting technique. Mounting of the antenna is accomplished via a "D" hole through the vehicle skin. It is then secured to the vehicle with a locking nut.

### FEATURES

- Developed for airborne applications in C-band or X-Band transponders
- Vertical polarized omnidirectional enclosed within a radome
- Compact and extremely lightweight while still maintaining the electrical and environmental characteristics
- Simplified mounting





### ELECTRICAL

- Frequency Range: 5.4 to 9.6 GHz
- Impedance: 50 ohms
- VSWR:  $\leq 2.0:1$
- Polarization: Vertical (linear)
- Power: 1.5 kW peak
- Azimuth Beamwidth: Omnidirectional
- Elevation Beamwidth: That of  $1/4$  stub
- Connector: TNC (female)
- Sealing: O-Ring
- Altitude: 70,000 feet
- Temperature:  $-80^{\circ}\text{F}$  ( $-62.2^{\circ}\text{C}$ ) to  $+307^{\circ}\text{F}$  ( $152.8^{\circ}\text{C}$ )
- Random Vibration: Short term -  $17.8\text{ g's}$ , 10 to 2000 Hz  
Long term -  $13.8\text{ g's}$ , 10 to 2000 Hz

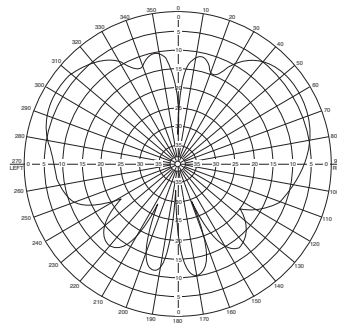
### PHYSICAL

- Size: 1.3" height (3.3 cm)
- Weight: 1.2 oz. (34 gms)

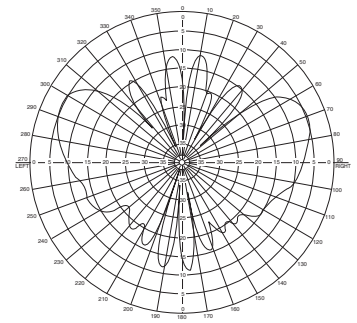
### PRODUCT NUMBERS

- P/N 302020-1 - Standard unit

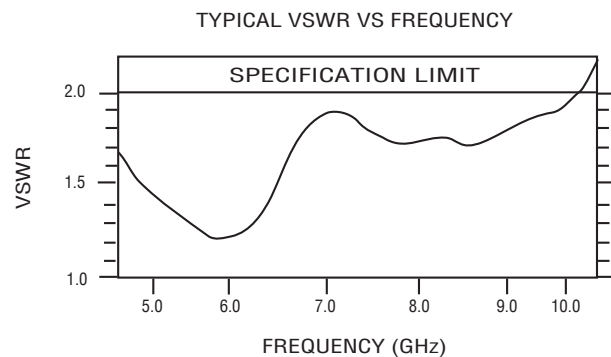
### 6" DIA GROUND PLANE C-BAND 6" DIA GROUND PLANE X-BAND



FREQUENCY 5.65 GHz



FREQUENCY 9.3 GHz



making a difference

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