

# UHF/Satcom S65-8282-130

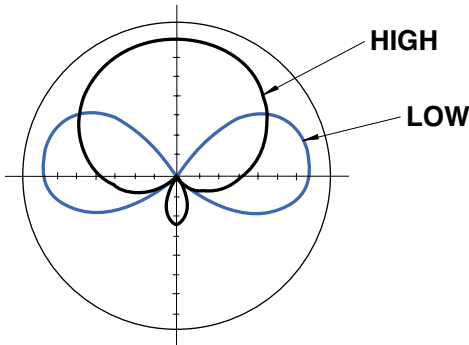


## DESCRIPTION

**S65-8282-130:** UHF Satellite Communication antenna provides two functions from a single low-profile antenna footprint. The traditional low-angle, vertically-polarized blade can be used for air-to-air and air-to-ground communications. The high-angle RHCP element is usable for UHF Satcom. The broad cardioid pattern provides coverage for up to plus or minus 35 degrees from zenith. Military application.

**FEDERAL & MILITARY SPECS:** MIL-E-5400, MIL-A-7772, MIL-A-9094 and MIL-STD-810.

## PERFORMANCE



RADIATION PATTERNS

## SPECIFICATIONS

S65-8282-130

### ELECTRICAL

<b>Frequency</b> .....	240-400 MHz (high angle) 225-400 MHz (low angle)
<b>VSWR</b> .....	1.5:1 (high angle) 2.0:1 (low angle)
<b>Pattern</b> .....	Cardioid/hemispheric RHCP (high angle) Omni/Az, Cos/EI (low angle)
<b>Polarization</b> .....	RHCP (high angle) Vertical (low angle)
<b>Impedance</b> .....	50 ohms
<b>Power</b> .....	200 watts CW (high angle) 200 watts CW (low angle)
<b>Gain</b> .....	7.0 dBic (high angle) 2.0 dBil (low angle)

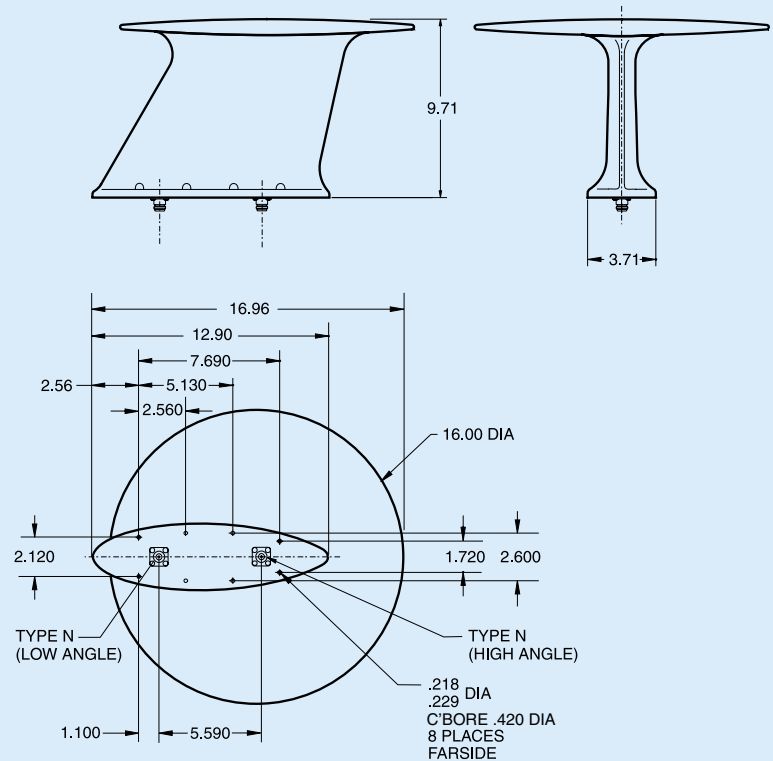
### MECHANICAL

<b>Weight</b> .....	6.0 lbs.
<b>Height</b> .....	9.71 in.
<b>Diameter</b> .....	16.0 in.
<b>Material</b> .....	6061-T6 aluminum / glass
<b>Finish</b> .....	Skydrol resistant enamel
<b>Connector</b> .....	N
<b>Drag</b> .....	2.8 lbs. Mach .85 @ 35,000 ft.

### ENVIRONMENTAL

<b>Side Load</b> .....	10 psi
<b>Temperature</b> .....	-77°F to +185°F
<b>Vibration</b> .....	10 G's
<b>Shock</b> .....	20 G's
<b>Altitude</b> .....	50,000 ft.

## OUTLINE DRAWING



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