

## SPECIFICATION SHEET

### FTS ANTENNA, OMNI-DIRECTIONAL MODEL dBs 410

**dBs PART NUMBER 410300-100**



The dBs 410 is an omni-directional, broadband antenna which is designed specifically for use as a command destruct antenna used in flight termination systems. It provides hemispherical coverage above the horizon while minimizing its negative angle radiation.

The antenna can be provided with right- or left-hand circular polarization. The antenna handles input power to 1,000 watts CW.

# FTS ANTENNA, OMNI-DIRECTIONAL

Model dBs 410  
dBs PART NUMBER 410300-100

## SPECIFICATIONS/CHARACTERISTICS

**Operating Frequency Range:** 400 to 550 MHz

**Polarization:** LHCP (Easily changeable to RHCP by swapping the 0° and 90° ports on the 90° hybrid; all ports use Type N Connectors)

**Impedance:** 50  $\Omega$

**VSWR:** < 1.5:1 Maximum; <1.3:1 Typical

**Power:** 1 kW, CW Continuous

**Azimuth Beamwidth:** Omni-Directional  $\pm$  3 dB

**Elevation Beamwidth 3 dB points:** >120° Typical

**Elevation Beamwidth 10 dB points:** >180° Nominal

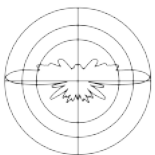
**Ellipticity Ratio:**  $\leq$  3 dB

**Input Connector:** Type N Female

**Mounting:** 6" long pipe interface which accepts a 4" pipe. Also includes 3 each 1/2" Eye Bolts 120° apart for guy wires

**Bird Protection:** Includes anti-bird radome spike

**Environment:** Operating temperature -55° C to +70° C  
Humidity up to 100%  
Icing up to 1/2" thickness  
Wind loading up to 70 knots



dB Systems Inc.

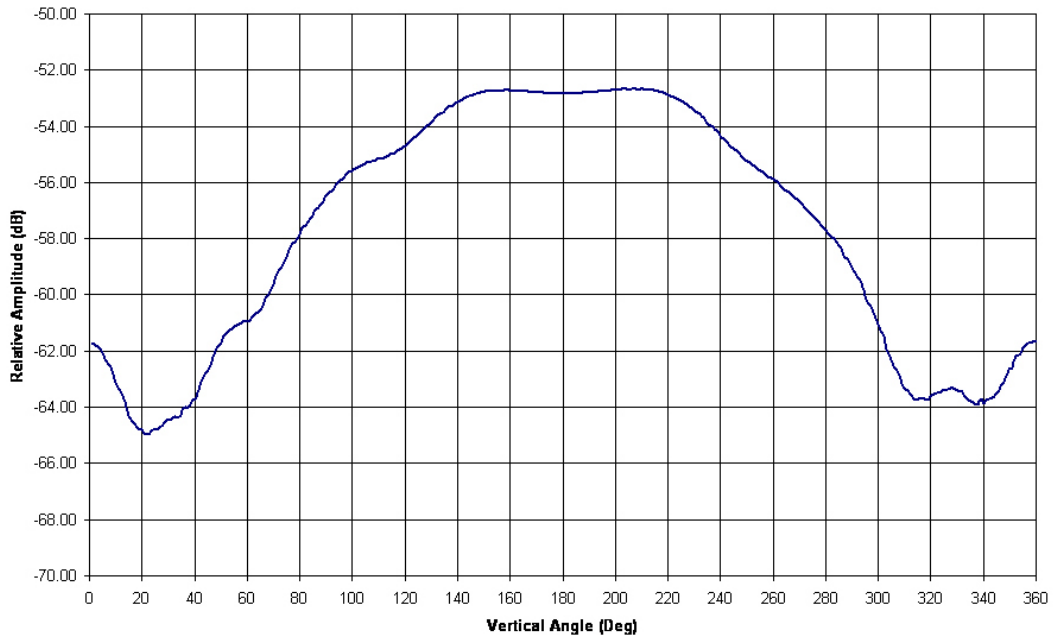
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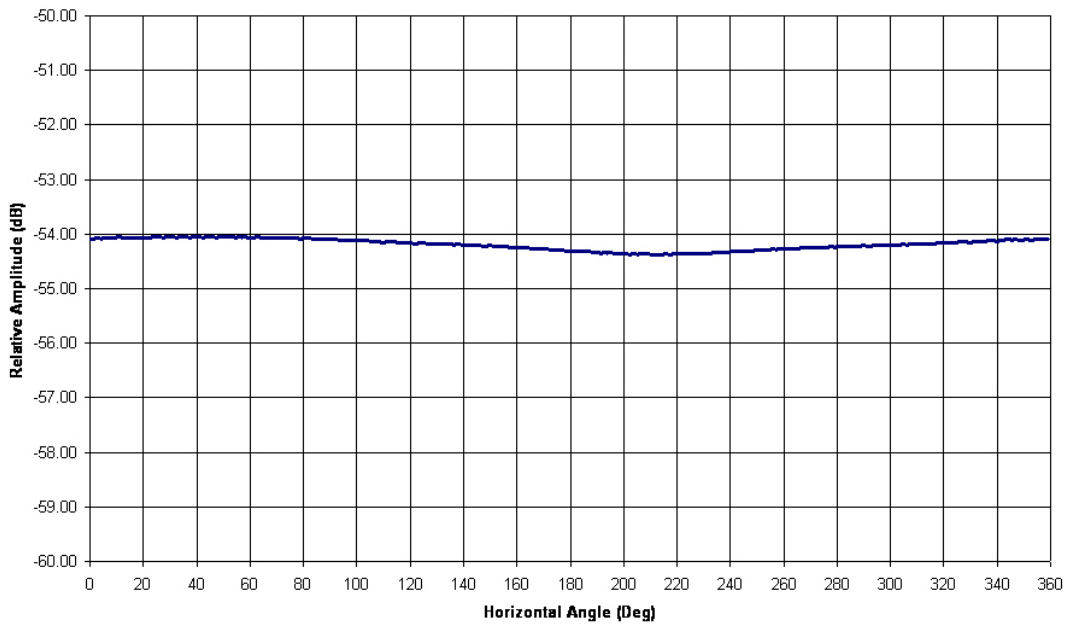
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# dBs 410 Vertical & Horizontal Patterns

dBs 410 Vertical Pattern, 400 MHz, LHCP Polarization



dBs 410 Omni Horizontal Pattern, 475 MHz, Vertical Angle = 60 Degrees, Polarization = LHCP



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