Model ASK 2163
Cavity Backed Spiral Antenna

This ASK-2163 Cavity-Backed Spiral Antenna exhibits frequency independent freespace radiation patterns, low axial ratio, and isotropic gain levels. This circularly polarized antenna can be flush mounted behind a fairing or similar dielectric cover for airborne applications. Upon request, CAES can furnish flush radomes for single apertures or multiple apertures as necessary. The ASK-2163 provides semiconstant beam-widths in both planes over its entire operating bandwidth. In addition, the ASK-2163 antenna is available in phase and amplitude matched sets for use in Interferometer applications. Variants of the ASK-2163 are in service on a wide variety of platforms in precision DF and RWR applications.
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### Cavity Backed Spiral Antenna

**KEY FEATURES:**
- Ultra Wideband Antenna
- Phase and Amplitude Tracking available
- Suitable for interferometer applications
- Rugged and Lightweight

**FREQUENCY RANGE:**
- 18 to 40 GHz

**IMPEDEANCE:**
- 50 Ohms

**VSWR:**
- 3.0 : 1

**POLARIZATION:**
- LHCP (A) or RHCP (AA)

**GAIN:**
- 18 GHz : -2 dBiL
- 29 GHz : 0 dBiL
- 40 GHz : -1 dBiL

**BEAMWIDTH:**
- 70 Degrees nominal

**AXIAL RATIO (BORESIGHTS):**
- 2 dB

**BEAM SQUINT:**
- ±6 degrees

**CONNECTOR:**
- 2.92 mm (Type K)

**WEIGHT:**
- 0.1 lb