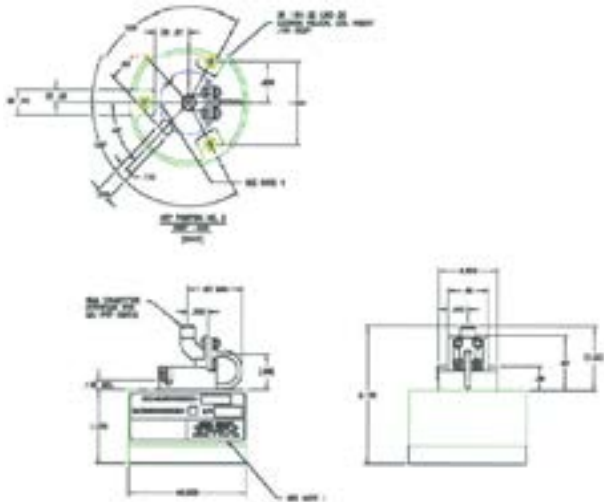


Model ASO-2154 Series Cavity Backed Spiral Antennas

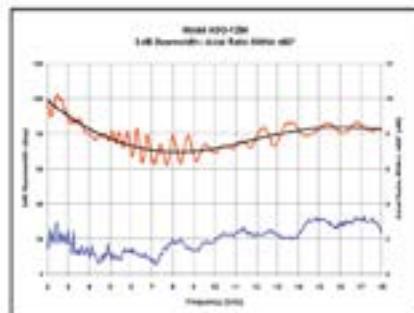
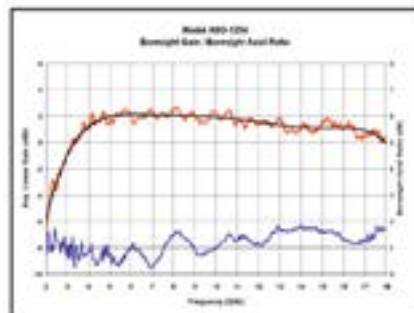
CAES ASO-2154 two-inch diameter spiral antennas provide superior performance for use in applications requiring circular polarization. With excellent input VSWR, these antennas provide smooth broadband gain, low axial ratios, and consistent pattern performance over 2 - 18 GHz. This model was designed and developed for applications requiring extremely close unit-to-unit phase matching, and is an excellent choice for airborne interferometry and direction finding systems. Two-inch diameter spirals allow close element spacing in arrays for better system performance. ASO-2154 is available with SMA Female connector.

Customers can choose either right or left-hand circular polarizations. Contact us for more applications information and details on phase matching, set size and performance.



APPLICATIONS:

- Airborne Radar Warning Receivers
- Airborne Direction Finding Systems
- Airborne Interferometry Systems



Model ASO 2154 Series Cavity Backed Spiral Antenna

KEY FEATURES:

- Ultra Broadband Frequency Performance (2-18 GHz)
- Consistent half-power beamwidth for quadrant coverage
- Excellent phase response (ASO-1547D/DD series)
- Low axial ratio
- Rugged design for survivability in airborne applications
- Small size
- Available in Phased Matched sets

FREQUENCY:

- 2 to 18 GHz

GAIN:

- 2 GHz -8 dBLi
- 9 GHz 1 dBLi
- 4 GHz 1 dBLi

VSWR:

- 2.5:1 typical

POWER:

- 1 W

BEAMWIDTH:

- 80° ± 20°

SQUINT:

- +/- 5 deg

AXIAL RATIO:

- 2 dB 0°
- 2.5 dB ±45°

DIAMETER:

- 2 inches

WEIGHT:

- 3.5 oz.

