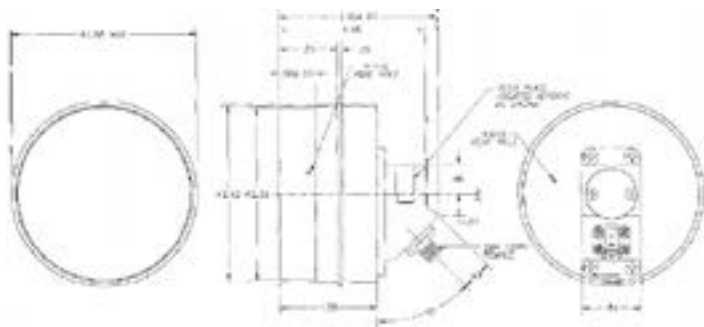


Model ASO/AST - 1547 Series Cavity Backed Spiral Antennas

CAES ASO/AST-1547 series 2.4-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. They are used extensively in radar warning receivers and other airborne EW applications. Designed for phase matching, the ASO-1547D/DD models are excellent choices for airborne interferometry and direction finding systems.

Customers can choose either left- or right-hand circular polarization, and they are also available in phase-matched sets.

These antennas are available with either SMA Female connectors (ASO-1547 series) or TNC female connectors (AST-1547 series).



APPLICATIONS:

- Airborne Radar Warning Receivers
- Airborne Direction Finding (DF) Systems
- Airborne Interferometry Systems
- Flight line Test Couplers

Model ASO/AST-1547 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
- Right or Left hand circular Polarization Available
- Available in Phased Matched sets

FREQUENCY:

- 2 to 18 GHz

GAIN:

- 2 GHz -5 dBLi
- 9 GHz 2 dBLi
- 18 GHz 1 dBLi

VSWR:

- 2.5:1 typical

POWER:

- 1 W

BEAMWIDTH:

- $75^{\circ} \pm 25^{\circ}$

SQUINT:

- +/- 5 deg

AXIAL RATIO:

- 2 dB 0°
- 2.5dB $\pm 45^{\circ}$

DIAMETER:

- 2.5 inches

WEIGHT:

- 6 oz.

