Model 8508580
Cavity Backed Spiral Antenna

CAES model 8508580-501 (LHCP) and -502 (RHCP) are high-efficiency, planar, cavity-backed, spiral antennas, and have been designed and qualified for installation on military aircraft. Designed to provide the wideband performance and semi-constant beamwidth associated with Spiral antennas, but with the benefit of increased efficiency, the 8508580- antennas provide greater than 0dBiL boresight gain performance as low as 700MHz within a 6” diameter housing. The improved efficiency also enables the 8508580- antenna to be utilized both in receive and low-power transmit applications.
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Cavity Backed Spiral Antenna

## Key Features:
- Wide band and stable phase center
- Semi constant Beamwidths
- Available as phase matched sets
- Qualified for military airborne environment
- Suitable for transmit applications

## Frequency Range:
- 0.7 to 3.0 GHz

## VSWR:
- 3.0 : 1 nominal

## Gain:
- 0 dBiL

## 3 dB Beamwidth:
- 75°

## Polarisation:
- RHCP
- LHCP

## Axial Ratio:
- 4 dB max

## Finish:
- MIL-DTL-5541

## Weight:
- 32 oz

## Input:
- SMA

## Dimensions:
- 6.0" dia. X 4.0" depth

## Environmental:
- MIL-STD-810