MODEL: ASK-2163A/AA
CAVITY BACKED SPIRAL ANTENNA FOR
PRECISION PHASE APPLICATIONS

TYPICAL DATA

FREQUENCY RANGE: 18 - 40 GHz.
CAVITY BACKED SPIRAL ANTENNA

SPECIFICATIONS

Model: ASK-2163A/AA
Application: Phase and Amplitude
Phase Tracking*: Set of 4: +/- 15°, typical

(*Phase requirements, definition and array size are often application specific. Contact Cobham to discuss your particular requirement.)

Frequency Range: 18.0 - 40.0 GHz.
Impedance: 50 Ohms
VSWR: 3:1 Max, Typical < 2.5:1
Polarization: LHCP (A) or RHCP (AA)
Gain -Min. Linear, Typical: -2.0 dBi @ 18.0 GHz.
0.0 dBi @ 29.0 GHz.
-1.0 dBi @ 40.0 GHz.

Beamwidth: 3dB 70° Typical
10dB: 140° Typical
Axial Ratio: Typical
Boresight: 2.0 dB
Within ±45°: 2.5 dB
Within ±60°: 3.0 dB
Within ±80°: 4.0 dB
Beam Squint: ±6°, Typical
Connector: 2.92 Millimeter (K)
Weight: 0.05 lbs.
Diameter: 0.42 Inch

Approved for public release; distribution is unlimited
Vertical Polarization

Horizontal Polarization

LINEAR POLARIZATION  22.0 GHz.

ROTATING LINEAR POLARIZATION

24.0 GHz.

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Vertical Polarization

Horizontal Polarization

Vertical Polarization

Horizontal Polarization

LINEAR POLARIZATION 34.0 GHz.

ROTATING LINEAR POLARIZATION

36.0 GHz.

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