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DF 360 SERIES ANTENNA

L3Harris' DF 360 Series Antenna provides full 360-degree spatial azimuth coverage with a single circular array interferometer (CAI) antenna assembly. The DF 360 Series provides a very high degree angle-of-arrival (AOA) accuracy with a minimum of three receiver channels. Receiver front-end electronics, preamplification, filtering and limiting are provided for interface to a receiver.

The DF 360-1 provides the necessary radio frequency (RF) and control hardware to perform calibration and built-in-tests (BIT). The design allows for mounting an optional GPS antenna on the top of the subassembly.

A radome can be provided based on specific application requirements.

PARAMETER	SPECIFICATION
Electrical	
Frequency range	2.0 - 6.0 GHz (mid band) 6.0 - 18.0 GHz (high band)
VSWR	2.0:1
Antenna gain	-1 dB at center of band
Impedance	50 Ohms
Polarization	Slant 45, vertical, horizontal, CP
Azimuth beamwidth	360°
AOA accuracy	1° calibrated, 2.5° slope corrected
Electronic gain	22 dB (2 – 6 GHz), 31 dB (6 – 18 GHz)
Electronic noise figure	4.0 dB (2 –6 GHz), 5.0 dB (6 – 18 GHz)
Power handling	23.6 watts (RF front end), 30.0 watts (bit/cal)
Mechanical	
Connector	RF: SMA female, control/power
Command signal	RS 422
Dimension	12.59" diameter x 17.75" high
Weight	40 lbs typical
Environmental	
Operating temperature	-40° C to +55° C
Shock	160 g

KEY FEATURES

- Unique CAI
- 2-18 gigahertz frequency coverage plus millimeter wave variants
- BIT features
- Radome options

For further details and specifications, contact the factory at antenna.info@L3Harris.com

DF 360 Series Antenna

Cleared by OFOISR for Public Release | 1099-271 (M28)

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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1025 W. NASA Boulevard
Melbourne, FL 32919