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AM-431 CAVITY-BACKED SPIRAL ANTENNA

The AM-431 is a planar, cavity-backed spiral antenna operating from 2-18 gigahertz. Left-hand circular polarization is standard, but right-hand circular polarization is available as well.

This antenna is ideally suited for electronic support measure applications due to its unit-to-unit uniformity and broadband frequency characteristics.

ELECTRICAL	
Frequency range	2.0 – 18.0 GHz
VSWR	2.5:1 nom
Gain	+1.0 dBli nom
Gain tracking	±1.0 dB on axis
Beam width (3 dB)	75° ±15° typ
Polarization	Circular
Axial ratio boresight	≤2.0 dB
±45°	≤4.0 dB
Squint	±5°
Power handling	1 W CW
MECHANICAL	
Connector	Precision TNC female, 45° angle to mounting surface
Weight	7.0 oz.
Design specification	90 G vibration, 120 G shock
Finish	Epoxy, white, color no. 17875
Option	Available with radome, LHCP or RHCP



KEY FEATURES

- > Electronic Support Measure/Radar Warning Receiver applications
- > Very lightweight (7 ounce) aperture
- > 2-18 GHz frequency coverage
- > RHCP or LHCP and radome options

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

AM-431 Cavity-Backed Spiral Antenna

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Nonexport-controlled Information

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