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AM-423 CAVITY-BACKED SPIRAL ANTENNA

The AM-423 is a planar, cavity-backed spiral antenna operating from 2-18 gigahertz. Left-hand circular polarization (LHCP) is standard, but right-hand circular polarization (RHCP) 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.

The AM-423 is extremely rugged, and versions have been used in 50 g vibration environments. Radome options are also available.

ELECTRICAL	
Frequency range	2.0 – 18.0 GHz
VSWR	3.0:1 nom
Gain	+1.0 dBli nom
Gain tracking	±1.0 dB on axis
Beam width (3 dB)	75° ±15° typ
Polarization	Circular (LHCP or RHCP)
Axial ratio boresight	≤2.0 dB on axis
±45°	≤4.0 dB
Squint	±5°
Power handling	1 W CW
MECHANICAL	
Connector	Precision TNC female, 40° angle to mounting surface
Weight	7.0 oz.
Design specification	90 G vibration, 120 G shock
Finish	Lacquer, color gray, No. 2632
Option	Available with hemispheric radome AM-423-01 (RHCP) AM-423-02 (LHCP), basic antennawithout radome AM-423-03 RHCP and AM-423-4 LHCP; Also AM-423-4A available with TNC female, in line with boresight and having LHCP.



KEY FEATURES

- > Electronic support measure/ radar warning receiver applications
- > Lower profile connector
- > 2-18 GHz frequency coverage
- > RHCP or LHCP options

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

AM-423 Cavity-Backed Spiral Antenna

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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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