



L3HARRIS™
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AM-454

CAVITY-BACKED SPIRAL ANTENNA

L3Harris' AM-454 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.

The AM-454 antenna can be amplitude tracked on a 100% basis versus factory standards, ensuring interchangeability at the system level. This characteristic makes the AM-454 antenna an ideal element for array and direction-finding applications. Integrated radomes offer element protection and meet high-velocity rain impact specifications.

ELECTRICAL	
Frequency range	2.0-18.0 GHz
VSWR	Less than 3.0:1
Gain	+1.0 dBli nom
Gain tracking	±1.0 dB on axis
Beam width (3 dB)	75° ±15° typ
Polarization	Circular, LHCP or RHCP available
Axial ratio boresight ±45°	≤1.5 dB ≤3.0 dB
Squint	Typically ±4°
Power handling	1 W CW
MECHANICAL	
Connector	Precision TNC female, 50° angle to mounting surface
Weight	7 oz.
Finish	Paint, lusterless black, color no. 37038
Design specification	90 G vibration, 120 G shock



KEY FEATURES

- > Designed specifically for high-speed aircraft
- > Ruggedized radar warning receiver applications
- > Meets 90 g-force vibration requirements
- > Amplitude tracking

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

AM-454 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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