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# AM-305 CAVITY-BACKED ANTENNA

The AM-305 is a planar, cavity-backed spiral antenna operating from 8-18 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	8.0 – 18.0 GHz
VSWR	-2.0 dBli at 8 GHz 0 dBli at 9 GHz +1 dBli from 12 to 18 GHz
Gain	50 ohms
Gain tracking	±0.5 dB on axis
Beam width (3 dB)	75° ±15° typical
Polarization	Circular
Axial ratio boresight	≤1.0 dB
±45°	≤3.0 dB
Squint	Typically ±5°
Power handling	1 W CW
MECHANICAL	
Connector	SMA female, inline with boresight
Weight	2.0 oz.
Design specification	25 G vibration
Finish	Semi-gloss black enamel, Color No. 27038
Option	Phase and amplitude matched pairs available. Specify LHCP or RHCP



## KEY FEATURES

- > Electronic support measure/ radar warning receiver (ESM/RWR) applications
- > Very lightweight (2 ounce) aperture
- > 8-18 GHz frequency coverage
- > RHCP or LHCP options

For further details and specifications, contact the factory at [antenna.info@L3Harris.com](mailto:antenna.info@L3Harris.com)

### AM-305 Cavity-Backed Antenna

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