



L3HARRIS™
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AS-48610 WIDEBAND CIRCULARLY POLARIZED SPIRAL HELIX ANTENNA

The AS-48610 Spiral Helix Antenna provides extremely broadband frequency capabilities in a small physical size. This capability is achieved by combining the radiating characteristics of both the planar spiral and helix into a single assembly, thereby more effectively utilizing the volume.

The axial ratio is extremely low over the majority of the radiation pattern. This performance characteristic, as well as a good radiating efficiency, makes the AS-48610 antenna very suitable as a broadband reflector feed or as a sector element in full azimuthal direction-finding arrays. The AS-48610 is also useful down to 0.35 gigahertz with reduced gain.

The AS-48610 is designed to meet the rigorous environments imposed by MIL-E-5400T and MIL-E-16400G. It is a highly reliable maintenance-free antenna adaptable to a variety of platforms.



ELECTRICAL

Frequency range	0.5 - 18 GHz
VSWR	2.0:1
Gain	See graph
Polarization	RH or LH circular
Beamwidth 3 dB (BW)	See graph
Axial ratio	±1 typical, ±1.5 max

MECHANICAL

Connector	3 mm (SMA) female
Weight	0.88 lbs
Finish	MIL-E-5400, class 1A

KEY FEATURES

- > Broad frequency coverage 0.5 to 18 gigahertz
- > Combined planar spiral and helix design
- > Right- or left-hand circular polarization options
- > Suitable for direction-finding array applications

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

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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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