



**L3HARRIS™**  
FAST. FORWARD.

# AS-48611 WIDEBAND CIRCULARLY POLARIZED SPIRAL HELIX ANTENNA

The AS-48611 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 most of the radiation pattern. This performance characteristic, as well as a good radiating efficiency, makes the AS-48611 antenna very suitable as a broadband reflector feed or as a sector element in full azimuthal direction-finding arrays. The AS-48611 is also useful down to 0.40 gigahertz, with reduced gain.

The AS-48611 is designed to meet the rigorous environments imposed by MIL-E-5400 and MIL-E-16400. It is a highly reliable maintenance-free antenna adaptable to a variety of platforms.

ELECTRICAL	
Frequency range	0.5-18.0 GH
VSWR	2.5:1 type 3.0:1 max
Gain (min)	Consult with factory
Polarization	±1.0 dB on axis
-01	RHCP
-03	LHCP
Beam width 3 dB	Consult with factory
Axial ratio	2dB typical at boresight
Power handling	Receive only
MECHANICAL	
Connector	SMA right-angle jack (female)
Weight	0.35 lbs. (0.16 Kg.)



## KEY FEATURES

- > Broad frequency coverage
- > Lightweight in a smaller size aperture compared to similar spirals
- > Right-hand or left-hand circular polarization available

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

### AS-48611 Wideband Circularly Polarized Spiral Helix Antenna

© 2021 L3Harris Technologies, Inc. | 05/2021 | 60956 | TRP

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.



**L3HARRIS™**  
FAST. FORWARD

1025 W. NASA Boulevard  
Melbourne, FL 32919