L3HARRIS™
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Q151-1-1
SPIRAL ANTENNA

L3Harris' Q151-1-1 is a planar, cavity-backed spiral operating from 1 to 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 measures (ESM) applications due to its unit-to-unit uniformity and broadband frequency characteristics.

The Q151-1-1 antennas are amplitude tracked on a 100% basis versus factory standards, ensuring interchangeability at the system level. In addition, the axial ratio is extremely low (considering the low frequency cutoff versus the nominal 4-inch diameter of the antenna) over the majority of a hemisphere. Together, these characteristics make the Q151-1-1 antenna an ideal element for array and direction-finding applications.

ELECTRICAL	
Frequency range	1.0-18.0 GHz
VSWR	
1-2 GHz	4.0:1 maximum
2-3 GHz	3.5:1 maximum
3-18 GHz	3.0:1 maximum
Gain	-6 to +2 dBic
Gain tracking	
1-15 GHz	Within the 2 dB beamwidth: up to ±1.7 dB
15-18 GHz	Within the 2 dB beamwidth: up to ±1.7 dB
Polarization	LHCP
Beamwidth	80 degrees nom
Axial ratio boresight	
15-18 GHz	±45 degrees
Beam squint	± 5 degrees maximum
Power handling	5 W CW
MECHANICAL	
Connector	Type PTNC female UG-89
Weight	0.5 lbs
Finish	Gray, color 36231 per FED-STD-595

KEY FEATURES

- Broadband cavity-backed spiral
- 1-18 gigahertz bandwidth
- Gain tracking of +/- 1.7 decibel
- 5 watts CW power handling

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

Q151-1-1 Spiral Antenna

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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