



L3HARRIS™
FAST. FORWARD.

Q189 SERIES SPIRAL ANTENNA

L3Harris' Q189 Series antennas are planar, cavity-backed spiral antennas operating from 2-18 gigahertz. Left-hand circular polarization (LHCP) is standard, but right-hand circular polarization (RHCP) is available as well. The antenna is ideally suited for interferometer applications due to their unit-to-unit uniformity and broadband frequency characteristics.

The Q189 Series antennas are amplitude and phase tracked on a 100% basis as matched sets, ensuring interchangeability at the system level. In addition, the axial ratio is extremely low (considering the low frequency cutoff versus the nominal 2-inch diameter of the antenna) over the majority of a hemisphere. Together, these characteristics make the Q189 Series of antennas an ideal element for array and direction-finding (DF) applications.

ELECTRICAL	
Frequency range	2.0 - 18.0 GHz
VSWR	2.5:1 nominal, 3.0:1 max
Gain	See graph
Polarization	
Q189-1	RHCP
Q189-2	LHCP
Phase tracking	Per customer request
Beamwidth	80° nominal
Axial ratio boresight	3 dB max
Beam squint	± 5° max
Power handling	1 watt CW
MECHANICAL	
Connector	SMP
Weight	0.25 lbs max
Finish	Natural



KEY FEATURES

- > Broadband frequency coverage
- > LHCP and RHCP options available
- > Phase matching and amplitude tracking available
- > Suited for interferometer array and DF type applications

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

Q189 Series Spiral Antenna

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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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