



L3HARRIS™
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Q176 SERIES SPIRAL ANTENNA

The Q176 Series of planar spirals have been designed to provide high-accuracy unit-to-unit phase and amplitude matching. They are ideal for use with amplitude direction-finding and interferometer systems. The Q176 Series are available in phase-matched sets and are factory tested for all unit-to-unit tracking requirements on a 100% basis. In addition to phase and amplitude repeatability, the Q176 Series provide low voltage standing wave ratio (VSWR) and axial ratio across the operating band.

The Q176 Series are available in a standard three-hole mount (model Q176-3) or pinned to a precision mounting bracket (model Q176-2) for direct installation in a customer supplied interferometer housing. The latter configuration provides improved unit-to-unit phase tracking for high-accuracy interferometer applications.

ELECTRICAL	
Frequency range	2.0-6.0 GHz
VSWR	2.5:1 max
Gain	2.0 GHz-4.0 dBil 4.0 GHz 0.0 dBil 6.0 GHz 0 dBil
Polarization	RHCP
Amplitude tracking	
Boresight	1 dB RMS
+/-45 degrees	1.5 dB RMS
Phase tracking	
Boresight	6 degrees RMS
+/-45 degrees	10 degrees RMS
Beamwidth (3dB)	80 degrees nom
Axial ratio	3 dB max at boresight (over 90% of band)
Power handling	Receive only
MECHANICAL	
Connector	SMA
Weight	0.6 lbs (with mounting bracket)



KEY FEATURES

- > Low VSWR across the operating band (2.0-6.0 gigahertz)
- > Phase-match and amplitude-tracking options are available
- > Multiple mounting configurations are available
- > Ideal for interferometer applications

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

Q176 Series Spiral Antenna

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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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