



L3HARRIS™
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Q177 SERIES SPIRAL ANTENNA

The Q177 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 Q177 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 Q177 Series provide low voltage standing wave ratio (VSWR) and axial ratio across the operating band.

The Q177 Series are available in a standard three-hole mount (model Q177-3) or pinned to a precision mounting bracket (model Q177-2) 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	6.0-18.0 GHz
VSWR	2.5:1 max
Gain	6.0 GHz 0 dBil 12.0 GHz 0 dBil 18.0 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
Power handling	Receive only
MECHANICAL	
Connector	SMA
Weight	0.15 lbs (with mounting bracket)



KEY FEATURES

- > Low VSWR across the operating band (6.0-18.0 GHz)
- > 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

Q177 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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