



The Q175 Series of planar spirals have been designed to provide high-accuracy unit-tounit phase and amplitude matching. They are ideal for use with amplitude direction-finding and interferometer systems. The Q175 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 Q175 Series provide low voltage standing wave ratio (VSWR) and axial ratio across the operating band.

The Q175 Series are available in a standard three-hole mount (model Q175-3) or pinned to a precision mounting bracket (model Q175-2) 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	0.5-2.0 GHz
VSWR	2.5:1 max
Gain	0.5 GHz-12.5 dBil 1.0 GHz-3.0 dBil 1.5 GHz 0 dBil 2.0 GHz +1 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	1.8 lbs



KEY FEATURES

- Low VSWR across the operating band (0.5-2.0 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

Q175 Series Spiral Antenna

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