



**L3HARRIS™**  
FAST. FORWARD.

## P/N 53410

### 1" H-/J-Band Spiral Antenna

To meet the expanding applications of communications, electronic warfare, telemetry and many other defense and communications requirements, L3Harris has developed a series of planar spiral antennas used for detection of broadband signals having various polarizations.

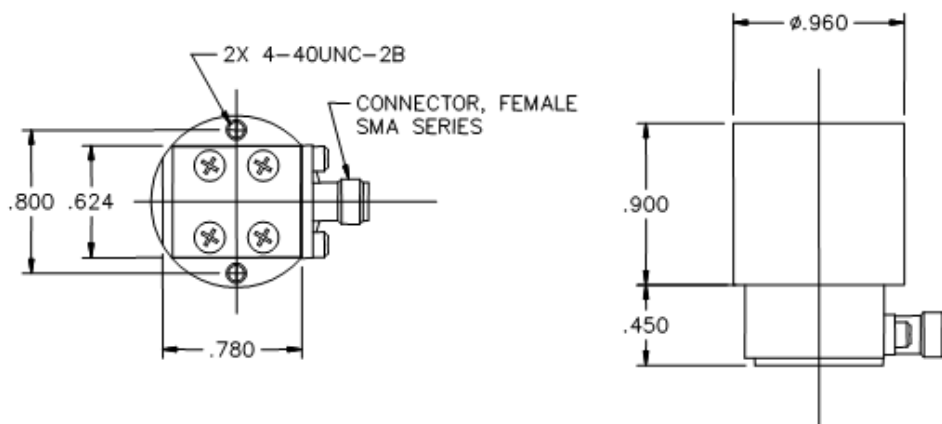
The 1" model 53410 antenna is a rugged, cavity-backed two-arm Archimedean spiral. A Marchand balun is used to connect the spiral aperture card to the output connector.

Designed for RWR Direction Finding (DF) applications, the characteristics of this antenna also make it an ideal choice for a phase tracking interferometer element, SIGINT antenna and any application requiring frequency independent performance.

The VSWR is typically less than 2:1 over the majority of the band. Power handling is typically 7 Watts CW. Actual performance depends on installation and environmental conditions.



#### PHYSICAL DIMENSIONS (TYPICAL UNIT)



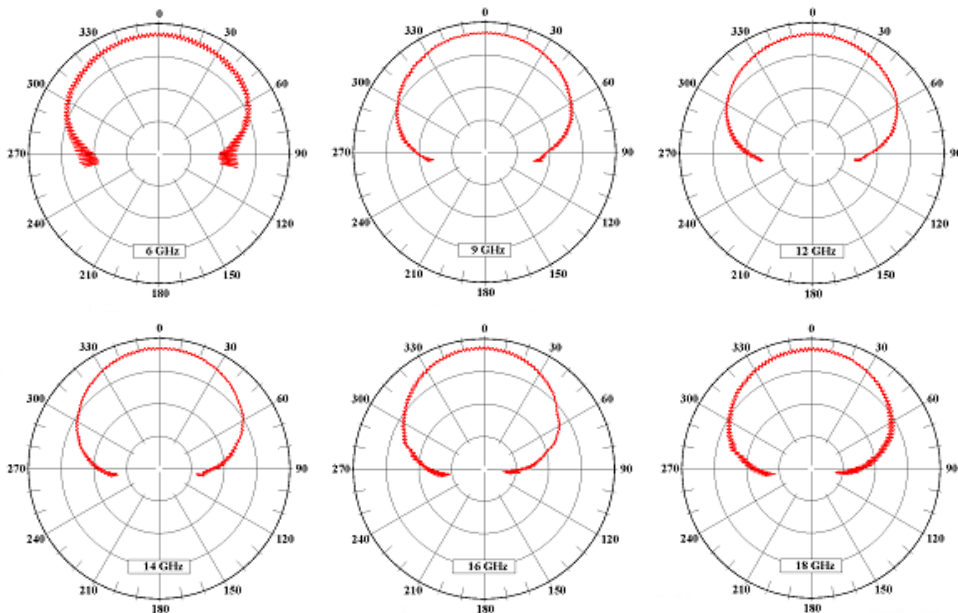
WEIGHT: 1.1 Oz.

#### KEY FEATURES

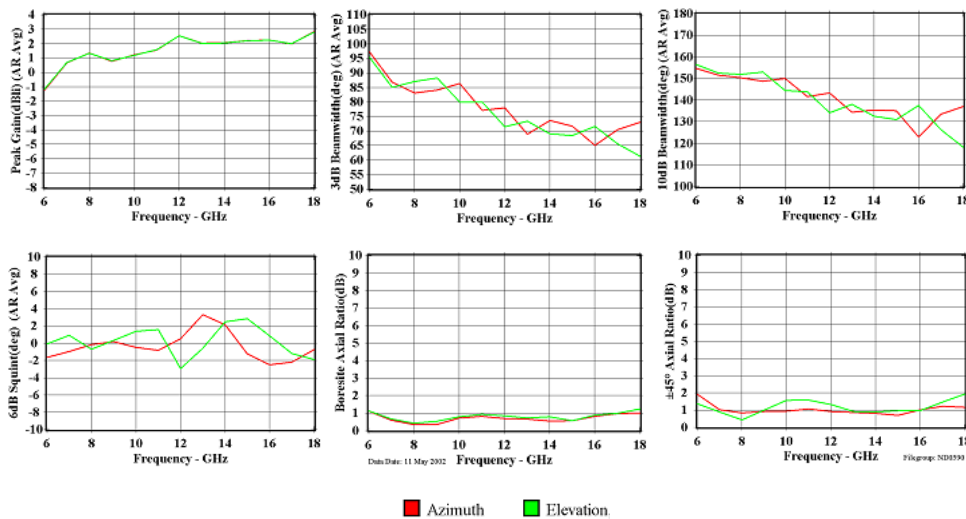
- > 6–18 GHz Frequency Operation
- > Right or Left Circular Polarization
- > Designed for RWR Application
- > Designed for Military Airborne Environment

## TYPICAL MEASURED PERFORMANCE

Performance varies with radome design, manufacturing tolerances, installation, and environmental conditions. Data shown is typical for the antenna without radome.



Azimuth Radiation Pattern Response to Rotating Linear Polarization (10 dB Rings)



Antenna Performance Summary

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