



2.0" DIAMETER E/J BAND REDUCED HEIGHT SPIRAL ANTENNA/ RADOME

- 2-18 GHz Frequency Operation
- Right or Left Circular Polarization
- Designed for RWR Application
- Qualified for Military Airborne Environment

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

The model 53411 antenna is a rugged, flight qualified, two-arm Archimedean cavity-backed spiral. Our extensive work on the absorber-loaded cavity has produced a proprietary moisture resistant absorber configuration, which reduces cavity depth and improves low frequency gain performance. A Marchand balun is used to connect the spiral aperture card and the input connector.

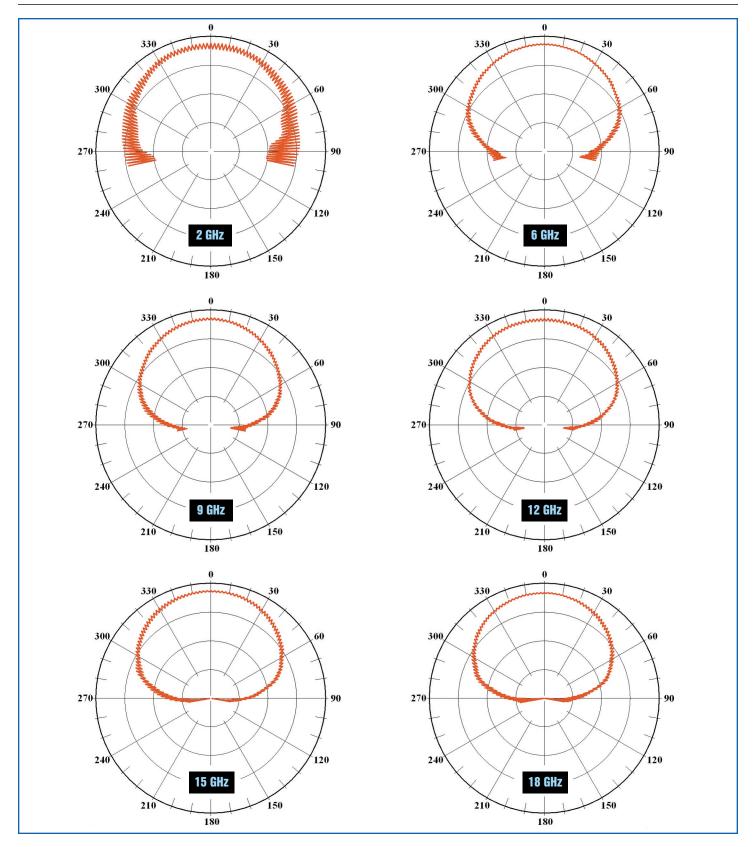
Originally designed for RWR Direction Finding applications, the characteristics of this antenna also make it an ideal choice for a phase-tracking interferometer element, SIGINT antenna and any application requiring frequency independent performance.

The VSWR is generally better than 2:1. The antenna can handle input power up to 2 Watts average and 20 Watts peak.



TYPICAL MEASURED PERFORMANCE

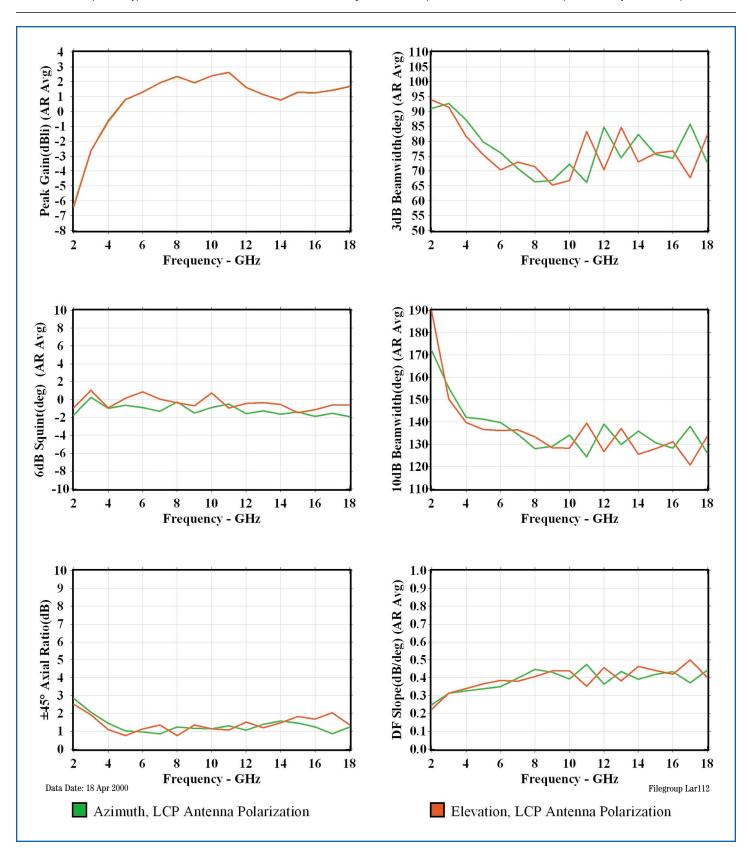
The data shown represent "typical" measurement results. Unit-to-unit manufacturing variations and specific radome and installation requirements may affect actual performance.



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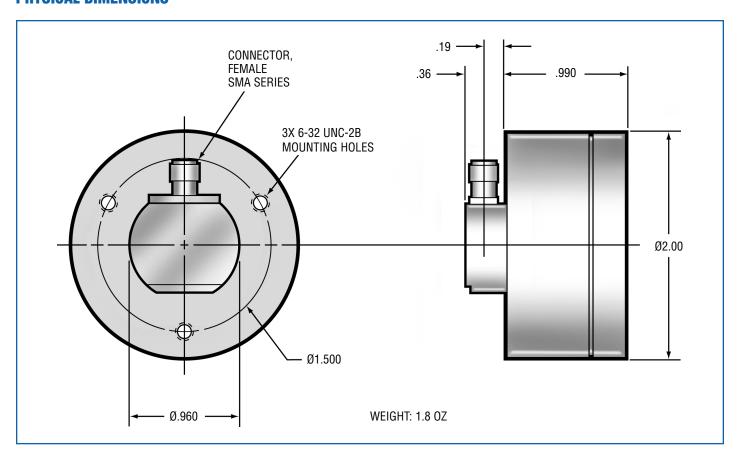
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PHYSICAL DIMENSIONS



Please visit our website at www.L-3com.com for more applications.



Randtron Antenna Systems

The Antenna Leader

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