AERONIX
an ATG™ Company

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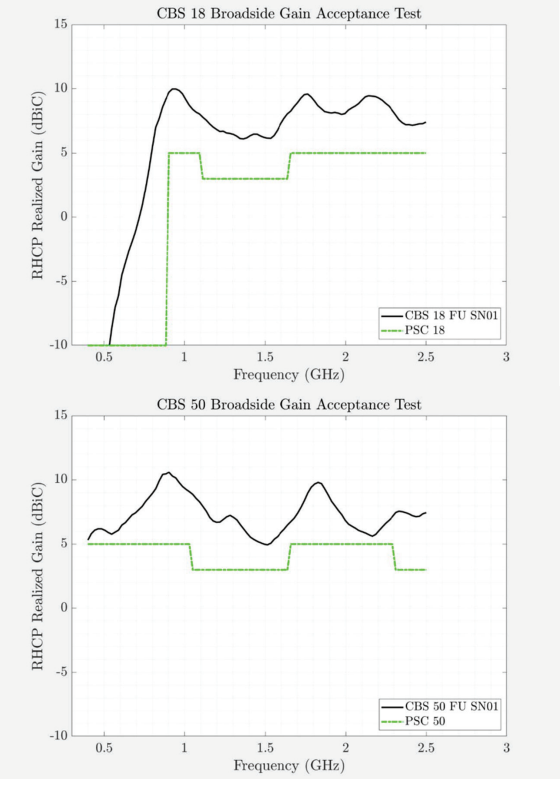
Cavity Backed Spiral Antenna

The Aeronix Cavity Backed Spiral Antenna (CBS) is a space-qualified wideband RHCP receive only mission antenna. Full parameterization of the CBS design allows for comprehensive configurability depending on mission requirements both for electromagnetic performance and mechanical integration. Robust materials and finish selections allow CBS to perform reliably in harsh thermal, radiation, and atomic oxygen rich space environments. To date, 18cm and 50cm aperture versions of this antenna have been produced.

KEY FEATURES

- Standard SMA interface
- 900MHz-2500MHz, >5dBiC, RHCP (18cm Aperture)
- 400MHz-2500MHz, >5dBiC, RHCP (50cm Aperture)
- Configurable bandwidth depending on mission requirements
- Configurable mounting interfaces available
- Optional dual polarized (LHCP/RHCP) with sinuous antenna element
- Operating temperature: -35C ; +80C
- Survival temperature: -50C ; +95C

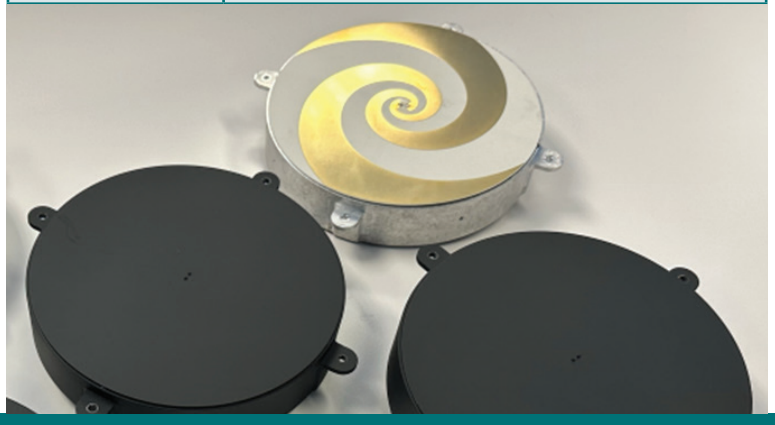
PERFORMANCE



SWaP Overview (configurations as produced)

18cm Aperture	
Size	21.8cm (dia.) x 4.0cm
Mass	410g

50cm Aperture	
Size	50.3cm (dia.) x 4.1cm
Mass	2350g



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