

Dual Polarized Cavity-Backed Antenna Type 201600



Standard Features

- **Dual circular simultaneous RHCP and LHCP**
- **Dual linear simultaneous H and V**
- **2-18 GHz broadband response**
- **Repeatable**
- **Compact, light weight, and rugged**

The Sinuous Cavity-Backed Spirals offer compact size, light weight, and rugged construction making them ideally suited for flush-mount airborne applications. These broadband antennas offer excellent repeatability and are frequently used for amplitude matched elements for radar warning receiver systems or phased matched elements for interferometer direction finding systems.

These are medium gain antennas, up to +1 dBi, and are available with SMA connectors and optional hemispherical radomes. They can be used individually, as a feed for reflector type antennas, or as elements in an array. These antennas meet the requirements of MIL-E-5400 and MIL-E-16400 for either airborne or ground-based applications.

The type 201600-1 makes use of dual Marchand baluns to provide simultaneous horizontal and vertical polarization outputs. The type 201600-2 has an additional broadband (3 dB, 90°) hybrid to provide simultaneous RHCP and LHCP outputs. Two SMA connector outputs are standard; a single SMA connector switched output is available as an option.

Performance Specifications

	201600-1	201600-2
Polarization:	Dual Linear, Simultaneous H & V	Dual Circular, Simultaneous RHCP & LHCP
Frequency:	2.0 to 18.0 GHz	2.0 to 18.0 GHz
VSWR:	< 2.5:1 Typical	< 1.5:1 Typical
Half Power Beamwidth:	115° to 65°	115° to 65°
Ellipticity at 0°: at 45°:	N/A N/A	2.0 Nominal (3dB Max.) ≤ 4dB
Power Handling Capacity:	1.0 W/CW	1.0 W/CW
Gain:	> +1.0 dBiL Typical	> +1.0 dBiC Typical
Amplitude Tracking at 0°: at 45°: at 60°:	≤± 1.25 dB ≤± 1.50 dB ≤± 2.00 dB	≤± 1.25 dB ≤± 1.50 dB ≤± 2.00 dB
Connectors:	(2) SMA Female (Option: 1 Switched SMA)	(2) SMA Female (Option: 1 Switched SMA)



www.trak.com



Follow Us



solutions@trak.com