

Circularly Polarized Directional Helical Antennas



Standard Features

- Right hand circular polarization
- Hermetically sealed radomes
- MIL-E-16400 design

The TRAK TECOM family of directional, narrow band helical antennas yield 12 dB of gain with nominal 35 degree beamwidth, over the spectrum of L, S and C bands. TRAK TECOM's circularly polarized, high performance helical antennas are radome enclosed, sealed, and may be used individually or in multiple arrays for increased gain and directivity.

Optional LHCP units are available upon request.

Electrical Performance Specifications

Type Number	Band	Frequency Range	VSWR		Power Handling (Watts)		Typical 3db BW	
			Typical	Max	Peak	Average	Low	High
401020	L	1400 - 1625 MHz	1.35:1	1.8:1	1000	150	43°	34°
401021	L	1600 - 2025 MHz	1.35:1	1.8:1	750	125	41°	29°
401022	S	2000 - 2400 MHz	1.35:1	1.8:1	500	100	40°	30°
401028	C	4400 - 5500 MHz	1.35:1	1.8:1	500	100	26°	20°
401029	C	5400 - 6500 MHz	1.35:1	1.8:1	500	100	23°	19°

Common Electrical Performance Data

- 1) Gain (dBic): 12 (Midband)
- 2) Impedance: 50 Ohms
- 3) Sidelobes: -13 dB Typical

The entire family of antennas has been designed to withstand the environmental specifications of MIL-E-16400 in conjunction with wind and ice loadings of 100 miles per hour and 1/4" radial ice.



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