

Dual Polarized Quad-Ridged Horns



Standard Features

- Broadband coverage
- Polarization diversity (V, H, RHCP, LHCP)
- Designed to MIL-E-5400 & MIL-E-16400
- High gain and efficiency

TRAK TECOM has developed a series of Broadband, Quad-Ridged Horn antennas covering the frequency spectrum of 1.2 to 55 GHz.

These horns provide high isolation between channels with low phase and amplitude imbalance. TRAK TECOM's family of Dual Polarized Horn antennas is capable of receiving simultaneous vertical and horizontal polarizations. Switchable right/left circular, vertical and horizontal polarization diversity reception is obtainable by combining the two output ports with appropriate hybrids and switches.

TRAK TECOM's Quad-Ridged Horn antennas are supplied with dust cover dielectric radomes over the apertures and may be used alone or as reflector feeds.

Electrical Performance Specifications

Type Number	Frequency Range	Minimum Gain (dbi)	Nom 3dB BW	VSWR		Power (CW)	Nominal Isolation	Impedance
				Average	Max			
201187-1	1.2 - 4.0 GHz	4.5 - 12.0	80° - 40°	2.0:1	3.0:1	50W	20 dB	50 Ohms
201821	1.7 - 18.0 GHz	8.0 - 24.0	50° - 7.5°	2.0:1	3.5:1	5W	20 dB	50 Ohms
201182	4.0 - 8.0 GHz	6.0 - 9.0	75° - 55°	2.0:1	3.0:1	25W	20 dB	50 Ohms
201187	4.0 - 18.0 GHz	8.0 - 14.0	70° - 25°	2.0:1	3.0:1	15W	20 dB	50 Ohms
201187-4	8.0 - 18.0 GHz	6.0 - 12.0	80° - 40°	2.0:1	3.0:1	5W	20 dB	50 Ohms
201187-3*	12.0 - 55 GHz	6.0 - 9.0	80° - 40°	2.0:1	3.0:1	5W	20 dB	50 Ohms

Common Electrical Performance Data

* SSMA Connector

1) Polarization: Dual Linear

2) Connector: (2 ea.): SMA



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