



## Space Qualified S-Band QFH Antenna Model 401163-7



### FEATURES/BENEFITS:

- S-Band Hemispherical Coverage Antenna with matching Test Hat Coupler Assemblies
- Antenna provides broad beam pattern coverage for optimum telemetry control of satellite in all orientations
- All components of the Antenna are designed and are tested for vacuum/space environment, meeting all requirements for out-gassing, severe shock, vibration, high temperature and demanding RF Performance
- Antenna utilizes a sophisticated feeding circuitry to obtain high isolation between TX and RX bands

This space qualified unit, Model No. 401163-7 offers a perfect solution for a communication link system between ground-based station and the spacecraft. In addition to the S-Band frequency coverage the 401163-7 is able also to handle L-Band and GPS (L1 and L2) frequencies, making it a broad COTS product offering for global Space Telemetry and GPS markets.

Specifications	
Frequency Range (GHz)	1800 MHz – 2350 MHz
Impedance	50 Ohms
VSWR (Max.)	2.1:1
Polarization	LHCP (RHCP Optional)
Pattern Coverage	0 dBic Min at El Angles From +70° to -70°
Axial Ratio (Max.)	3 dB
RF Power Handling	10W Average
Connectors	TNC female
Size	3.12" D x 6.75" H
Weight (Max.)	255 Grams (9 oz)