Toyon’s tri-band, GPS interference-reducing telemetry antenna provides transmit capability at lower L-band, upper L-band, and S-band telemetry frequencies simultaneously. The transmit pattern at lower L-band also features a pattern null that can be pointed in the direction of vulnerable GPS receivers to reduce interference caused by telemetry signals. The antenna is flight-ready, and has been certified by an independent testing lab for operation at airspeeds up to Mach 2.0, at an altitude of 5000 feet.

Frequencies: 1.435 - 1.535 GHz
1.755 - 1.850 GHz
2.200 - 2.400 GHz

Return Loss: < -10 dB at all of the above frequencies
Gain: See patterns
Polarization: Vertical
Power Handling: 20 Watts continuous
Diameter: 4.9 inches
Height: 0.91 inches as installed
Weight: 1.25 lb
RF Connector: TNC female

Flight certified per DO-160D and MIL-STD-810F to Mach 2.0, @ altitude 5000 feet

Measured Return Loss
(Telemetry bands are shaded)
At lower L-band frequencies, the antenna’s transmit pattern is shaped to form a sectoral null, shown by red arrows in two of the patterns below. The antenna should be installed so that this null points in the direction of the most vulnerable GPS receive antenna. The direction of the pattern null is indicated on the top and bottom of the antenna with an engraved arrow.

For more information please contact:
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