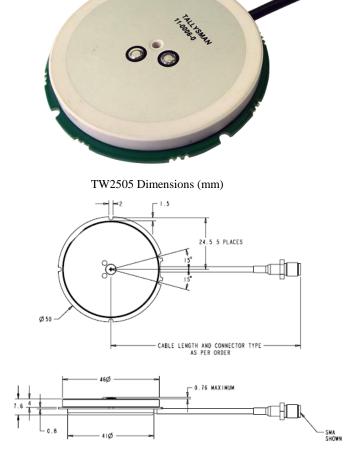
When precision matters...*

TW2505 Embedded Globalstar™ Certified STU Antenna

The TW2505 by Tallysman Wireless is a professional grade, embedded, passive left hand circularly polarized antenna for the 1610 to 1620 MHz frequency band, certified and specifically designed to maximise the performance of the Globalstar[™] STU (Simplex Transmit Unit) Modem.

The TW2505 features a high performance dualfeed patch element that provides great axial ratio (3 dB max) over the entire Globalstar[™] frequency band, thus signals at the band edges remain truly circular, unlike the response of single feed antennas.

The TW2505 provides excellent Globalstar^M signal coverage, and comes in a compact circular form factor with a built-in 50 mm diameter ground plane and with a 15 cm RG174 cable.



Applications

Tallysman

Wireless

- Simplex Transmit Unit (STU) Applications
- Sea & Land Container Tracking
- Military & Security
- Fleet Management & Asset Tracking
- Marine & Avionics Systems
- Law Enforcement & Public Safety

Features

- Custom high gain 4.25 dBic dual-feed patch
- Great axial ratio, 3 dB over full bandwidth
- 15 KV ESD circuit protection
- Robust design
- Small form factor

Benefits

- Excellent circular polarized signal transmission
- Industrial temperature range
- Rugged Design
- RoHS compliant



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Specifications Vcc = 3V, over full bandwidth, T=25°C

Antenna

Architecture Antenna Gain (100mm ground plane) Axial Ratio (over full bandwidth)

Electrical

Architecture Frequency Bandwidth Polarization Gain flatness VSWR (at antenna) Return Loss (over 10 dB bandwidth) ESD Circuit protection Cross Polarization Rejection

Mechanicals & Environmental

Mechanical Size Cable Operating Temp. Range Weight Attachment Method Environmental Shock Vibration Warranty Dual, quadrature feeds 4.25 dBic ≤3 dB

Hybrid 90° phase signal splitter 1615 MHz ± 10 MHz LHCP ≤1 dB, from 1610 to 1620 MHz <1.5:1 <-20dB 15 KV air discharge 15 dB minimum across the band

50 mm dia. x 7.8 mm H RG174 / 15 cm, custom lengths optional -40 to +85 °C 100 g Adhesive or screw mount RoHS compliant Vertical axis: 50 G, other axes: 30 G 3 axis, sweep = 15 min, 10 to 200 Hz sweep: 3 G One year – parts and labour

Ordering Information

Legacy Part Numbers:

TW2505 – Globalstar™ STU antenna, 15cm cable, SMA Male 32-2505-0

TW2505 – Globalstar™ STU antenna, 15cm cable, MCX R/A 32-2505-5

TW2505 – Globalstar™ STU antenna, 15cm cable, MMCX R/A 32-2505-6

* As a result of a growing product portfolio, Tallysman has rationalized its part number system. No changes have been made to the mechanical or electrical properties of these products. Where administratively possible, please use the following Part Numbers.

TW2505 – Globalstar™ STU antenna, 33-2505-xx-yyyy-zz

Where xx = connector type, yyyy = cable length in mm and zz = assigned by Tallysman for custom tuning

Please refer to the Ordering Guide (<u>http://www.tallysman.com/orderingguide.php</u>) for the current and complete list of available connectors.

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