

A Tallysman *Accutenna*® TW2605 Embedded IridiumTM Certified Antenna

The TW2605 employs Tallysman's unique Accutenna technology in an embedded, passive right hand circularly polarised antenna for the 1616 to 1626.5 MHz frequency band, certified and specially designed to maximise the performance of Iridium[™] voice and data modems.

The TW2605 features a high performance dual-feed patch element that provides great axial ratio (3dB max) over the entire Iridium $^{\text{TM}}$ frequency band, thus signals at the band edges remain truly circular, unlike the response of single feed antennas.

The TW2605 provides excellent Iridium™ signal coverage, and comes in a compact circular form factor with a built-in 50 mm diameter ground plane. Standard coax cable is 15cm of RG174. Custom tuning, cable length, and connectors are available on request.



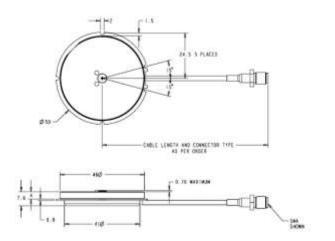
- Iridium™ Voice and Data Applications
- Sea & Land Container Tracking
- Military & Security
- Fleet Management & Asset Tracking
- Marine & Avionics Systems
- Law Enforcement & Public Safety

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
- Available application specific tuning



TW2605 Dimensions (mm)



Benefits

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



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Specifications

Vcc = Over full bandwidth, T=25°C

Antenna

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

Radiated Bandwidth (-0.5 dB)

Electrical

Architecture Frequency Bandwidth

Polarization

Cross Polarization Rejection

Gain flatness VSWR (at antenna)

Return Loss Bandwidth (10 dB return loss)

ESD Circuit protection

Mechanicals & Environmental

Mechanical Size

Cable

Operating Temp. Range

Weight

Attachment Method

Environmental

Shock

Vibration

Dual, quadrature feeds

4.25 dBic

≤3 dB

1605 MHz to 1635 MHz

Hybrid 90° phase signal splitter

1616 to 1626.5 MHz

RHCP

typically 20dB

≤0.5 dB, from 1616 to 1626.5 MHz

<1.5:1 typ. 1.8:1 max.

>20 MHz

15 KV air discharge

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

Ordering Information

TW2605 - Iridium™ antenna,

33-2605-xx-yyyy-zz

Please refer to the Ordering Guide (http://www.tallysman.com/wp-content/uploads/Current-Ordering-Guide.pdf)) for the current and complete list of available connectors.

Tallysman Wireless Inc

36 Steacie Drive Ottawa ON K2K 2A9 Canada

Tel +1613 591 3131

Fax 613 591 3121

sales@tallysman.com

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