

TW2605

TW2605 Embedded Iridium® Certified Antenna

Frequency Coverage: Iridium

The TW2605 employs Tallysman's patented Accutenna® technology in an embedded, passive right-hand circularly polarised antenna for the 1616 MHz 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 (3.0 dB max) over the entire Iridium® 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.

Custom tuning, cable length, and connectors are available on request.



Applications

- Iridium® Voice and Data Applications
- Sea & land container tracking
- Safety & security
- Fleet management and asset tracking
- Marine & avionics systems
- Law enforcement and public safety

Features

- Custom high-gain 4.25 dBic dual-feed patch
- Great axial ratio, 3.0 dB over full bandwidth
- 15 kV ESD circuit protection
- Small form factor
- Available application specific tuning
- RoHS, REACH and CE compliant

Benefits

- Excellent circular polarized signal transmission
- Industrial temperature range
- Rugged design

About Tallysman: With global headquarters and manufacturing in Ottawa, Canada, Tallysman is a leading manufacturer of high-precision antennas and components for Global Navigation Satellite System (GNSS) applications. Tallysman's mission is to support the needs of a new generation of positioning systems by delivering unprecedented antenna precision at competitive prices. Learn more at www.tallysman.com

Revision:

3.3

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Antenna

Technology Dual-feed RHCP ceramic patch

		Gain	Axial Ratio
		dBic typ. at Zenith	dB at Zenith
GNSS			
GPS / QZSS	L1	-	-
	L2	-	-
	L5	-	-
GLONASS	G1	-	-
	G2	-	-
	G3	-	-
Galileo	E1	-	-
	E5a	-	-
	E5b	-	-
	E6	-	-
BeiDou	B1	-	-
	B2	-	-
	B2a	-	-
	B3	-	-
IRNSS / NavIC	L5	-	-
QZSS	L6	-	-
L-band correction services		-	-
Satellite Communications			
Iridium		4.25	≤ 3
Globalstar		-	-
Other			
Axial Ratio at 10°	-	Efficiency	
Phase Centre Variation	-		

Mechanicals

Mechanical Size 49.7 mm (dia.) x 7.1 mm (h.)

Weight 38 g

Available Connectors -

Radome / Enclosure -

Mount -

Environmental

Operating Temperature -40 °C to +85 °C

Storage Temperature -

Mechanical Vibration MIL-STD-810D

Shock and Drop Vertical axis: 50 G, other axes: 30 G

Salt Fog -

Low Pressure - Altitude -

IP Rating (housing) Not Applicable

Compliance IPC-A-610, FCC, RED / CE Mark, RoHS, REACH

Warranty:

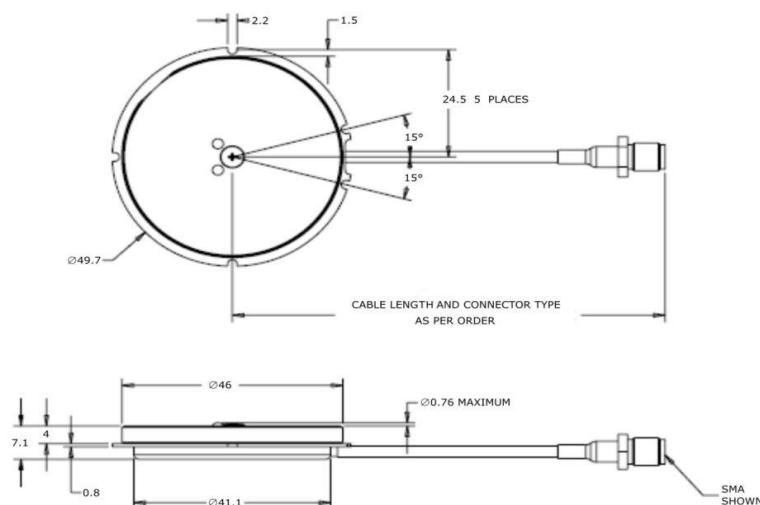
Parts and Labour 1-year standard warranty

Low Noise Amplifier (LNA) - Measured at 3.0 VDC and 25°C

Frequency Bandwidth	Out-of-Band Rejection	
Lower Band	-	-
Upper Band	1616 - 1626 MHz	-

Architecture	Non pre-filtered
Gain	-
Noise Figure	-
VSWR	< 1.5:1 typ. 1.8:1 max
Supply Voltage Range	-
Supply Current	-
ESD Circuit Protection	15 kV air discharge
P 1dB Output	-
Group Delay Variation	-

Mechanical Diagram



Ordering Information

Part Number 33-2605-xx-zzzz

Where xx = type of connector | zzzz = cable length in mm

Please refer to our [Ordering Guide](https://www.tallysman.com/resource/tallysman-ordering-guide/) to review available radomes and connectors at: <https://www.tallysman.com/resource/tallysman-ordering-guide/>

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