TW3370

NavtechGPS
+1-703-256-8900 or 800-628-0885
info@NavtechGPS.com
www.NavtechGPS.com

CALIAN
Confidence. Engineered.

High Gain GPS-L1/GLONASS-G1 Antenna

Frequency Coverage: GPS L1 | GLONASS G1

The TW3370 is a high Gain (40 dB) GNSS antenna covering the GPS-L1, GLONASS-G1 and SBAS (WAAS, EGNOS & MSAS) frequency band (1575 to 1606 MHz).

It features a patch element with 40% wider bandwidth than previously available in this format.

Unlike its competitors, both GPS-L1 and GLONASS-G1 signals are included in the 1 dB received power bandwidth.

The TW3370 has a three stage low-noise amplifier with a mid-section SAW.

The TW3370 has a 19 mm (3/4 Inch) though hole, permanent-mount white-metal base, with an industrial-grade, IP69K compliant conical radome with a North reference mark.

Two options for pole mounting are available an L-bracket (P/N# 23-0040-0) or a pipe mount (P/N# 23-0065-0).

Applications

- Timing applications
- Fixed installations
- Cost Sensitive Mission Critical Positioning
- Law enforcement and public safety

Features

- 40 dB LNA Gain
- 1 dB LNA Noise Figure
- Wide voltage input range (2.5 to 16 VDC)
- IP69K Compliant conical radome with North reference mark
- Low Current (20 mA typ.)

Benefits

- Bandwidth fully Includes GPS-L1 & GLONASS
- Excellent multipath rejection
- Increased system accuracy
- Excellent signal-to-noise ratio
- Great out-of-band signal rejection
- Ideal for harsh environments
- CE RED, RoHS, and REACH compliant

About Calian: With global headquarters and manufacturing in Ottawa, Canada, Calian is a leading manufacturer of high-precision antennas and components for Global Navigation Satellite System (GNSS) applications. Calian'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.calian.com

Revision: 202407

Contact us:
info@tallysman.com
T: +1 613 591-3131

High Gain GPS-L1/GLONASS-G1 Antenna

Frequency Coverage: GPS L1 | GLONASS G1

Antenna - Measured with a 100 mm ground plane

Technology: Single-feed RHCP ceramic patch

		Gain dBic typ. at Zenith	Axial Ratio dB at Zenith
GNSS			
GPS / QZSS	L1	4.5	≤ 8
	L2	-	-
	L5	-	-
GLONASS	G1	4.5	≤ 8
	G2	-	-
	G3	-	-
Galileo	E1	-	-
	E5A	-	-
	E5B	-	-
	E6	-	-
BeiDou	B1	-	-
	B2b	-	-
	B2a	-	-
	B3	-	-
IRNSS / NavIC	L5	-	-
QZSS	L6	-	-
L-Band Services (1539 MHz - 1559 MHz)		-	-
Satellite Communications			
Iridium		-	-
Globalstar		-	-
Other			
Axial Ratio at 10°	-	Efficiency	-
PCV Φ > 15°	-	PCO	

Mechanicals

Size	66.5 mm (dia.) x 21 mm (h.)
Weight	150 g
Radome	LEXAN™ EXL9330, Base: Zamac Metal
Mount	Through-hole (100 mm ground plane provided)
Available Connectors	Please refer to ordering guide

Environmental

Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +95 °C
Vibration	MIL-STD-810-E - Test Method 514.5
Shock	MIL-STD-810-G - Test Method 516.6
Salt Fog	MIL-STD-810-F - Test Method 509.5
Other Tests	Hail, Humidity, Dust, Rain, Sand, Solar
IP Rating	IP69K
Compliance	IPC-A-610, FCC, CE RED, RoHS, REACH

Warranty

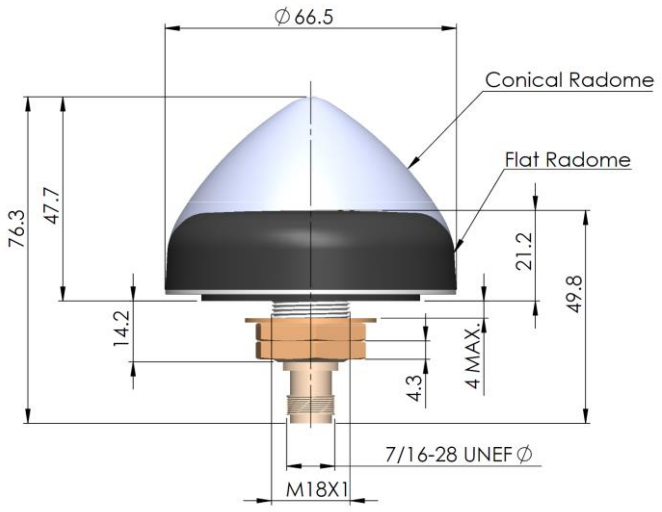
Parts and Labour: 3-year standard warranty

Low Noise Amplifier (LNA) - Measured at 3V and 25°C

Frequency Bandwith		Out of Band Rejection
Lower Band	-	-
L-Band Corr.	-	> 35 dB @ < 1500 MHz > 25 dB @ < 1550 MHz > 35 dB @ > 1640 MHz
Upper Band	1575-1606 MHz	

Architecture	Non pre-filtered
Gain	41 dB min.
Noise Figure	1 dB typ.
VSWR	< 1.5:1 typ., 1.8:1 max.
Supply Voltage Range	2.5 to 16 VDC nominal, up to 50mV p-p ripple
Supply Current	20 mA typ.
ESD Circuit Protection	15 kV air discharge
P 1dB Output	-
Group Delay	-

Mechanical Diagram - Units in 'mm' or 'inches' where specified



Ordering Information

Part Number 33-3370-xx-yy-zzzz

Where xx = connector type, yy = shape and colour of radome and zzzz = cable length in mm (where applicable)

Please refer to our **Ordering Guide** to review available radomes and connectors at:
https://www.tallysman.com/resource/tallysman-ordering-guide/