





When precision matters...

## TW2410/TW2412 Magnet Mount GPS/GLONASS Antenna Specifications

Vcc = 3V, over full bandwidth, T=25°C

### Antenna

Architecture	Dual, Quadrature Feeds
1 dB Bandwidth	32 MHz
Antenna Gain (with 100mm ground plane)	4.25 dBic
Axial Ratio (for both L1 and G1) @zenith	<1 dB

### Electrical

Architecture	One LNA per feed line, mid section SAW filter
Filtered LNA Frequency Bandwidth	1574 to 1606 MHz
Polarization	RHCP
LNA Gain	28 dB min., 1575.42 to 1606 MHz
Gain flatness	+/- 2 dB, 1575 to 1605 MHz
Out-of-Band Rejection	<1500 MHz >32 dB (TW2410) >50dB (TW2412)
	<1550 MHz >25 dB (TW2410) >50 dB (TW2412)
	>1640 MHz >35 dB (TW2410) >70 dB (TW2412)
VSWR (at LNA output)	<1.5:1 typ 1.8:1 max
Noise Figure	1.5dB typ. (TW2410) 3.5dBtyp. (TW2412)
Supply Voltage Range (over coaxial cable)	+2.5 to 16 VDC nominal (12VDC recommended maximum)
Supply Current	15 mA typ, 25mA Q max (85°C).
ESD Circuit Protection	15 KV air discharge

### Mechanicals & Environmental

Mechanical Size	57 mm dia. x 15 mm H
Cable	RG174 / 5 metres, other lengths optional
Operating Temp. Range	-40 to +85 °C
Enclosure	Radome: EXL9330, Base: Zamak white metal
Weight	110 g
Attachment Method	Magnet or permanent (pre-tapped 4 x 6-32 UNC)
Environmental	IP67 and RoHS compliant
Shock	Vertical axis: 50 G, other axes: 30 G
Vibration	3 axis, sweep = 15 min, 10 to 200 Hz sweep: 3 G

### Ordering Information

TW2410: 33-2410-xx-yyyy

TW2412: 33-2412-xx-yyyy

Where xx = connector type and yyyy = cable length in mm

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.



Contact NavtechGPS for product details. [www.NavtechGPS.com](http://www.NavtechGPS.com)  
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