



When precision matters..®

A Tallysman Accutenna®

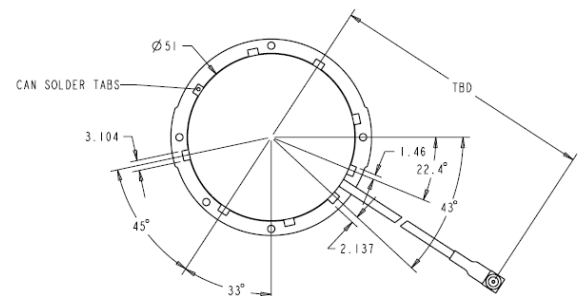
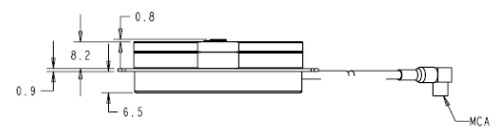
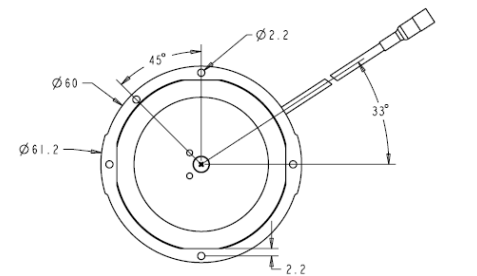
TW3967P Embedded Triple Band GNSS Antenna + L-band Correction Services

The TW3967P is an Accutenna® technology antenna providing triple band GPS L1/L2/L5, GLONASS G1/G2/G3, BeiDou B1/B2, Galileo E1/E5 plus L-band correction services coverage and is especially designed for precision triple frequency positioning. The TW3967P provides superior multi-path signal rejection, a linear phase response, and tight Phase Centre Variation (PCV). This antenna is ideal for precision agriculture, autonomous vehicle tracking and guidance, and other applications where precision matters.

The TW3967P features a precision tuned, twin circular dual feed, stacked patch element. The signals from the two orthogonal feeds are combined in a hybrid combiner.

The TW3967P offers excellent axial ratio and a tightly grouped phase center variation.

The TW3967P covers from 1164MHz to 1254MHz and 1525MHz to 1606MHz.



Applications

- Precision GPS position
- Triple Frequency RTK receivers
- Mission Critical GPS Timing
- Military & Security
- Network Timing and Synchronization

Features

- Axial ratio: <2dB typ.
- Tight Phase Center Variation
- ESD circuit protection: 15 KV
-

Benefits

- Ideal for triple band RTK surveying systems
- Great multipath rejection
- Increased system accuracy
- REACH and RoHS compliant



When precision matters[®]

TW3967P Embedded Triple Band GNSS Antenna + L-band Correction Services Specifications (Measured a Vcc = 3V, and Temperature=25°C)

Antenna

E5a/L5 Gain (100mm ground plane)			-1.5dBic typ. at Zenith
B2/E5b/G3 Gain (100mm ground plane)			2.5 dBic typ. at Zenith
L2 Gain (100mm ground plane)			4.0 dBic typ. at Zenith
G2 Gain (100mm ground plane)			2.5 dBic typ. at Zenith
E1 Gain (100mm ground plane)			4.0 dBic typ. at Zenith
L1 Gain (100mm ground plane)			4.0 dBic typ. at Zenith
G1 Gain (100mm ground plane)			2.5 dBic typ. at Zenith
Axial Ratio @ zenith			
L5/E5ab	<1.5 dB typ. 2.0 dB max.	B2	<1.5 dB typ. 2.0 dB max.
L2	<1.0 dB typ. 1.5 dB max.	G2	<1.5 dB typ. 2.0 dB max.
L-Band	<1.0 dB typ. 1.5 dB max.		
L1/E1	<1.0 dB typ. 1.5 dB max.	G1	<1.5 dB typ. 2.0 dB max.

Electrical

EMI Immunity	50V/Meter, excepting L1+/-100MHz and L2 +/- 100MHz
VSWR	<1.5:1
ESD Circuit protection	15 KV air discharge.

Mechanicals & Environmental

Mechanical Size, Ground Plane	60mm x 14.9mm (see drawing on other page), 100mm ground plane recommended
Operating Temperature Range	-40°C to +85°C
Weight	70 g (excludes cable)
Environmental	RoHS and REACH 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

TW3967P – Triple Band GNSS antenna with L-Band Correction 33-3967P-xx-zzzz
 Where xx = connector type and zzzz = cable length in mm (where applicable)

Please refer to the Ordering Guide (<http://www.tallysman.com/index.php/gnss/ordering-guide/>) for the current and complete list of available radomes and connectors.



36 Steacie Drive, Ottawa ON K2K 2A9 Canada

Tel 613 591 3131 Fax 613 591 3121 sales@tallysman.com

The information provided herein is intended as a guide only and is subject to change without notice. This document is not to be regarded as a guarantee of performance. Tallysman Wireless Inc. hereby disclaims any or all warranties and liabilities of any kind. © 2015 Tallysman Wireless Inc. All rights reserved. Rev 1.1