



When precision matters..®

A Tallysman Accutenna®

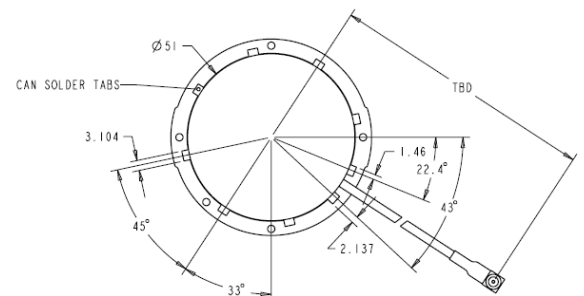
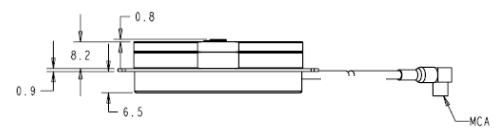
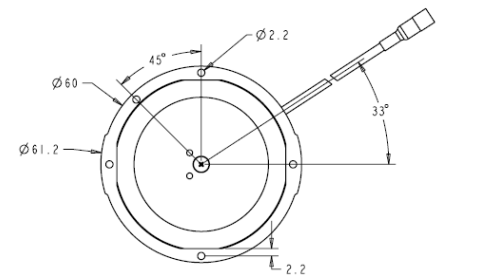
TW3967P Embedded Triple Band GNSS Antenna + L-band Correction Services

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
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Benefits

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



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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.

Tallysman



An ISO 9001:2015
Certified Company

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Rev 1.1