The TW2012 by Tallysman Wireless is a professional grade, dual-filtered magnet mount, GPS L1 antenna, specially designed for precision positioning and timing applications in environments characterized by high L-Band RF fields.

The TW2012 features a precisely tuned ceramic patch element, a tight SAW pre-filter, a first LNA gain stage, a mid-section SAW filter and a final gain stage. It covers the GPS L1 and SBAS (WAAS/EGNOS/MSAS) frequency band (1572.5 to 1578 MHz), and it offers unparalleled out-of-band signal rejection and excellent axial ratio for improved signal reception and multipath rejection.

The TW2012 is housed in a compact, industrial-grade weather-proof, magnet mount enclosure, and comes with a bulkhead SMA female connector or with 5 metres of cable and a wide range of connector.

**Applications**
- Anti-Jamming & Mission Critical GPS
- Military & Security
- Precision Agriculture, Mining & Construction
- Avionics
- Law Enforcement & Public Safety
- Fleet Management & Asset Tracking

**Features**
- Narrow pass-band SAW pre-filter
- 3 dB Noise Figure (including pre-filter)
- Axial ratio: <4dB at Zenith
- High LNA gain: 27 dB typ.
- Low current: 10 mA typ.
- ESD circuit protection: 15 KV
- Wide voltage input range: +3.0 to 10 VDC

**Benefits**
- Great out-of-band signal rejection
- Ideal for high level RF environments
- Great multipath rejection
- Increase system accuracy
- Great signal to noise ratio
- Weather proof IP67 housing
- RoHS compliant
TW2012 GPS Brickwall Filtered Antenna

Specifications
Vcc = 3V, over full bandwidth, T=25°C

Antenna
Architecture
Antenna Gain (100mm ground plane)
Axial Ratio

Electrical
Architecture
Frequency Bandwidth
Polarization
LNA Gain (including SAW pre-filter)
Out-of-Band Rejection
VSWR (at LNA output)
Noise Figure
Supply Voltage Range
Supply Current
ESD Circuit protection

Mechanicals & Environmental
Mechanical Size
Connectors

Cable
Operating Temp. Range
Enclosure
Weight
Attachment Method
Environmental
Shock
Vibration
Warranty

Ordering Information
TW2012 – 5 metre cable, SMA Male 32-2012-0
TW2012 – Bulkhead SMA Female 32-2012-7

Please contact Tallysman Wireless for additional information

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