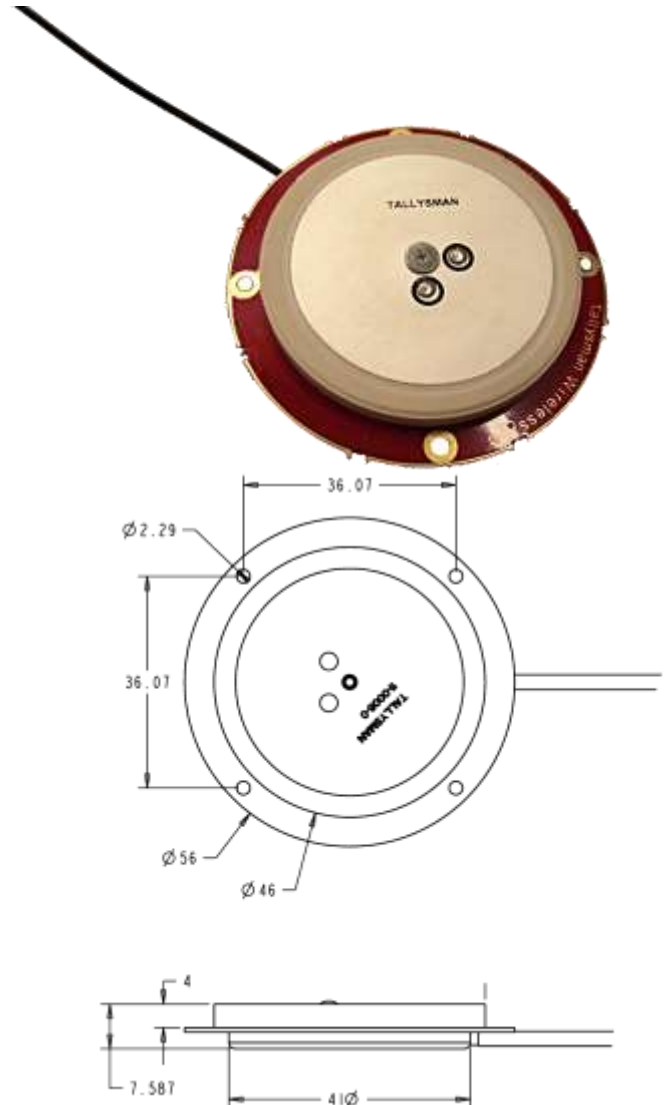


A Tallysman Accutenna®





TW2706 / TW2708 Embedded Multi-Constellation Antenna

Specifications $V_{cc} = 3V$, over full bandwidth, $T=25^{\circ}C$

Antenna

Architecture	Dual, Quadrature Feeds
2 dB Bandwidth	49 MHz
Antenna Gain (with 100mm ground plane)	4.75 dBic
Axial Ratio at Zenith over full bandwidth	<2 dB typ, ≤ 3 dB max

Electrical

Architecture	One LNA per feed line, mid section SAW filter
Filtered LNA Frequency Bandwidth	1557 to 1606 MHz
Polarization	RHCP
LNA Gain	28 dB min.
Gain flatness	+/- 2 dB, 1557 to 1606 MHz
Out-of-Band Rejection	<1500 MHz <1540 MHz >1640 MHz
	>40 dB >20 dB >45 dB
VSWR (at LNA output)	<1.5:1 typ. 1.8:1 max
Noise Figure	≤ 1 dB typ.
Supply Voltage Range (over coaxial cable)	+2.5 to 16 VDC nominal (12VDC recommended maximum)
Supply Current	15 mA typ., 22mA max. (@85°C)
ESD Circuit Protection	15 KV air discharge

Mechanicals & Environmental

Mechanical Size	56 mm dia. x 7.8 mm H
Cable	RG174
Operating Temp. Range	-40 to +85°C
Weight	35 g
Attachment Method	Adhesive or screw mount
Environmental	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

TW2706 – Multi-Constellation antenna,	33-2706-xx-yyyy
TW2708 – Multi-Constellation antenna with tight pre-filter	33-2708-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.

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