TECH APP CONSULTANTS

Data Sheet

L-BAND PATCH ANTENNA

OVERVIEW

The L-band patch antenna is developed for multiple GNSS bands including GPS, Glonass, Galileo and Beidou), and for Iridium and Inmarsat telecom applications.

This is all-metal patch antenna, designed for low-cost, high power, robust and ruggedized applications. It offers also high antenna radiating efficiency and gain thanks to the omission of substrate loss which would be from a traditional PCB construction.

KEY FEATURES

- Stacked patch design
- Wide frequency bandwidth
- High efficiency and high gain
- Covering multiple GNSS bands (GPS L1, Glonass L1, Galileo E1 and Beidou B1)
- Covering Iridium and Inmarsat bands
- Circular polarization
- Low PIM design
- Robust and all metal construction

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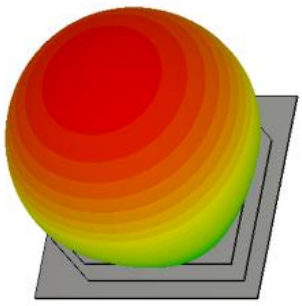
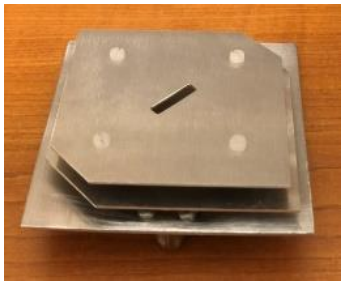
DESIGN AND PROTOTYPE UNIT





SPECIFICATIONS [1]

Parameter	Specification	Note
Frequency (GHz)	1.525 – 1.6605	Covers GNSS(GPS, Glonass, Galileo and Beidou), Iridium and Inmarsat bands
Gain (dBic)	8	Measured at the TNC connector
Beamwidth (°)	67	3dB beamwidth
Polarization	RHCP	
Return loss (dB)	-15	Measured at TNC connector
Axial Ratio (dB)	3	Typical
PIM	Low	Low PIM design
RF interface	TNC	Other interfaces available
Dimension (mm)	92 x 92 X 15	Exclude TNC connector
Mass (g)	85	

[1] These are the typical specifications. There is a range of designs with different dimensions, gains and operating frequencies to choose from to meet different applications and requirements

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