

AD591

GNSS Antenna



FEATURES

Tracks GPS / GLONASS / C-Nav Corrections / SBAS

Greater than 95dB out of band rejection filter

Excellent tracking performance and stable phase center

AD591

Specifications	
Antenna Type:	Dual patch stacked antenna elements
Polarization:	RHCP (+/- 0.5dB at zenith) and Omnidirectional in azimuth
Passbands:	L-Band/GPS L1/GLONASS: 1525 - 1611 MHz GPS L2/L5 / GLONASS: 1164 - 1254 MHz
Out of Band Rejection:	>95 dB @ 1626.5 - 1660 MHz (INMARSAT up link)
Antenna Phase Center:	L-Band/GPS L1 61 mm / 2.40 in above base GPS L2, L2C, L5 and GLONASS 54 mm / 2.13 in above base
LNA / Filter Combined Gain:	39 dB
Total Noise Figure (NF):	3 dB (Typical)
Impedance:	50 Ohms
Power Requirements	Input Voltage: +5V to +20V dc Power Consumption: 45 mA (max)

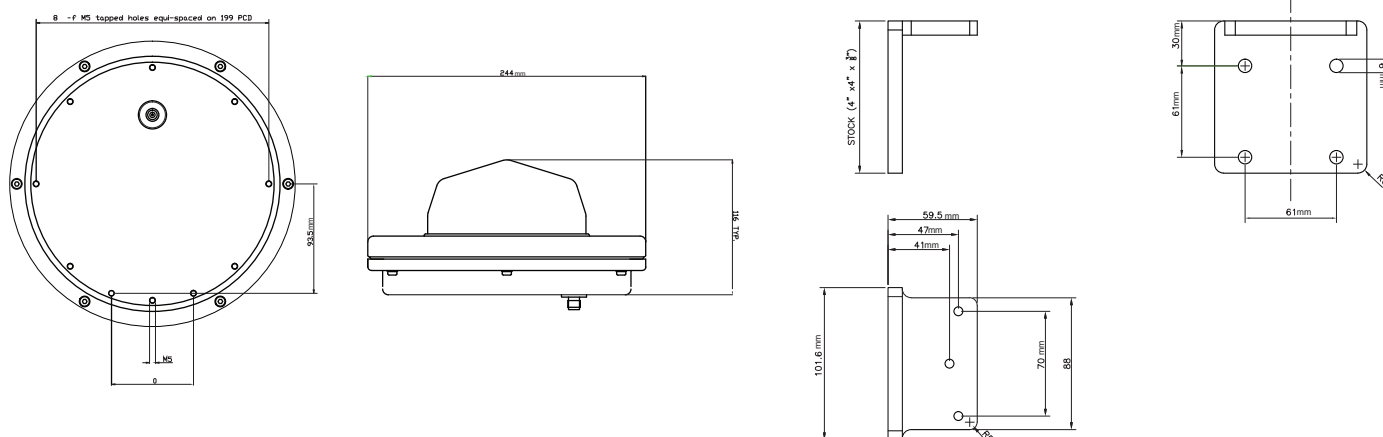
Power requirements	
Input voltage	+5 V to +20 V DC
Power consumption	45 mA (maximum)

Environmental	
Operating temperature	-40° F to 185° F / -40° C to +85° C
Storage temperature	-40° F to 185° F / -40° C to +85° C
Ingress protection rating	IP67

Mechanical	
Enclosure construction	Hard-anodized, dichromate, and nickel acetate sealed aluminum with .12 in / 4 mm thick GRP pressure molded radome
Cable connector	TNC female
Dimensions	9.6 in x 4.57 in / 244 mm x 116 mm
Weight	8.82 lb / 4 kg
Mounting	Aluminum bracket with clamps (included)

Antenna Drawing

Mounting Bracket Drawing



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