

Technical Specifications AD491

Electrical Specifications

Antenna type: Dual patch stacked antenna elements
RHCP (+/- 0.5dB at zenith) and Omni-directional in azimuth

Antenna pass-bands

L-Band/GPS/GLONASS L1: 1525 – 1611 MHz
GPS L2/L5 / GLONASS L2: 1164 – 1254 MHz

Out of band rejection

Inmarsat: >45dB @ 1626.5 – 1660 MHz

Antenna Phase Centres

L-Band/GPS L1 59mm above base
GPS L2, L2C, L5 and GLONASS 51mm above base

LNA

LNA Gain: 39 dB (typical)
Total Noise Figure (NF)
with pre-LNA band-pass filter: +2 dB (typical)

Connector

TNC-f Nominal impedance 50ohms

Power requirements

Input voltage: +5V - +20V DC, +5V - +12V DC Nominal
Power consumption: 50mA (max)

Mechanical Specifications

Material

Hard anodized and dichromate and nickel acetate sealed Aluminum with GRP pressure molded radome rated to IP67

Dimensions: Ø210mm x 110mm
Weight: 3.2 Kg

Environmental

Operating temperature: -45°C to +70°C (-40°F to 158°F)
Storage temperature: -40°C to +85°C (-40°F to 185°F)