

MHJ-1401E

Multiband GNSS L1L2 antenna (B1, L1, E1, G1, L2)

APPLICATIONS

- Asset Tracking
- Hand Held Devices
- UAV/AUV
- Vehicle
- Emergency Location
- Seismic Monitors/Measuring
- Wildlife Tracking
- Marine Tracking



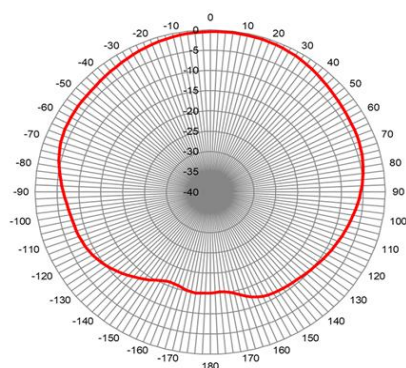
Product Description

(in mm)

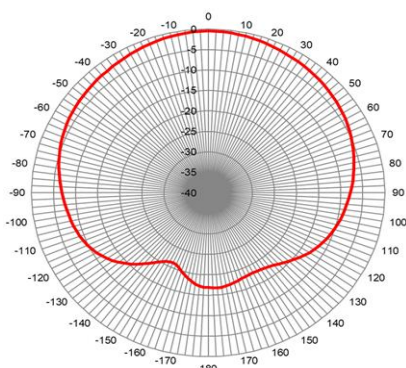
The MHJ-1401E Multiband GNSS active antenna uses Maruwa's distinctive materials technology to provide unrivaled circularly-polarized gain from a uniquely small volume. It enables excellent performance in tightly integrated devices that require good positional accuracy. By combining a high-quality dielectric antenna with a high-performance low-noise amplifier the MHJ-1401E active antenna provides an excellent solution for applications needing active gain input.

Key Features

- Negligible detuning in cluttered, dielectric loaded environments
(hand-held, body-worn, close proximity to objects)
- Filters against interference from cellular and ISM bands



L1: @1575.42MHz



L2: @1227.6MHz

Parameter	Specications	Units
Cover Band	B1, L1, E1, G1, L2	-
Gain (Passive)	1 (@1575.42MHz)	dBic (Typ)
	-1 (@1227.60MHz)	dBic (Typ)
Gain (Active)	31 (@1575.42MHz)	dBic (Typ)
	29 (@1227.60MHz)	dBic (Typ)
Voltage	2.7→ 5.5	V
Current	28	mA (Typ)
Beamwidth	135 (@1575.42MHz)	Degrees (Typ)
	115 (@1227.60MHz)	Degrees (Typ)
Axial Ratio	<3.0	dB (at zenith)
VSWR	<2.0	-
Impedance	50	Ohms
Noise figure	2.8	dB
Waterproof	IP67	-
Operating Temp	-40→ +85	°C
Weight	31	grams

Rev.01