

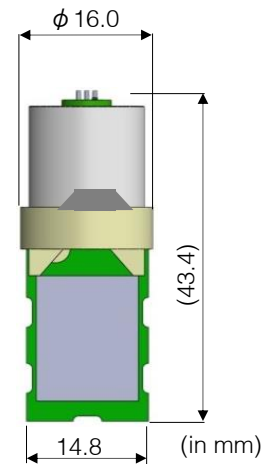
"The dielectric-loaded helical antenna solution"

MHK-1568A

L1, B1, E1, G1 miniature high-gain active dielectric loaded antenna

APPLICATIONS

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

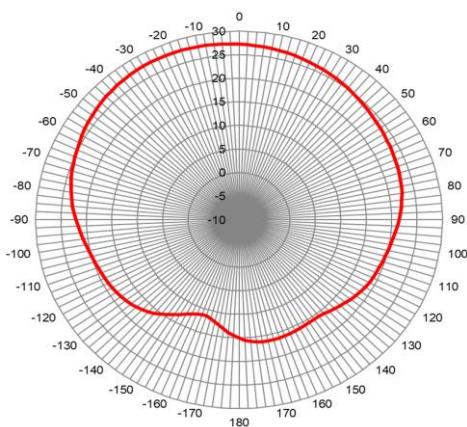


Product Description

The MHK-1568A GPS/BeiDou miniature high-gain active dielectric-loaded antenna uses Maruwa's distinctive materials technology to provide unrivaled circularly-polarized gain from a uniquely small volume. It enables excellent GPS/BeiDou 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 MHK-1568A 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
- Balanced design rejects common mode noise from ground plane
- Solder-pad installation to device PCB



Parameter	Specifications (Typ.)	Units
Frequency	L1, B1, E1, G1	MHz
Voltage (range)	2.8→3.6	V
Current	13	mA
Gain (RHCP)	+27	dBic at zenith
Beamwidth	115	Degrees
Axial Ratio	<3.0	at zenith
VSWR	<2.0	-
Impedance	50	Ohms
Noise figure	1	dB
Operating Temp	-40→+80	°C
Weight	13	grams