LMA1000 GNSS Survey Grade Antenna

Data sheet

Introduction

LMA1000 is a multi-constellation,multi-frequency survey antenna, it supports all GNSS bands and receives GPS L1/L2/L5, GLONASS L1/L2/L3, BDS B1/B2/B3 and Galileo E1/E5a/E5b/E6 bands GNSS signals, which can be used in land survey, marine survey, channel survey, seismic monitoring, bridge survey, container operation, agriculture applications

Key Features

※ Multi-path rejection board inside can eliminate the multi-path influence to measurement error.

※ Adopt multi feed design to ensure the superposition of phase center and geometrical center, and minimize the influence to measurement error.

※ Supports GNSS four-system full-band signal.

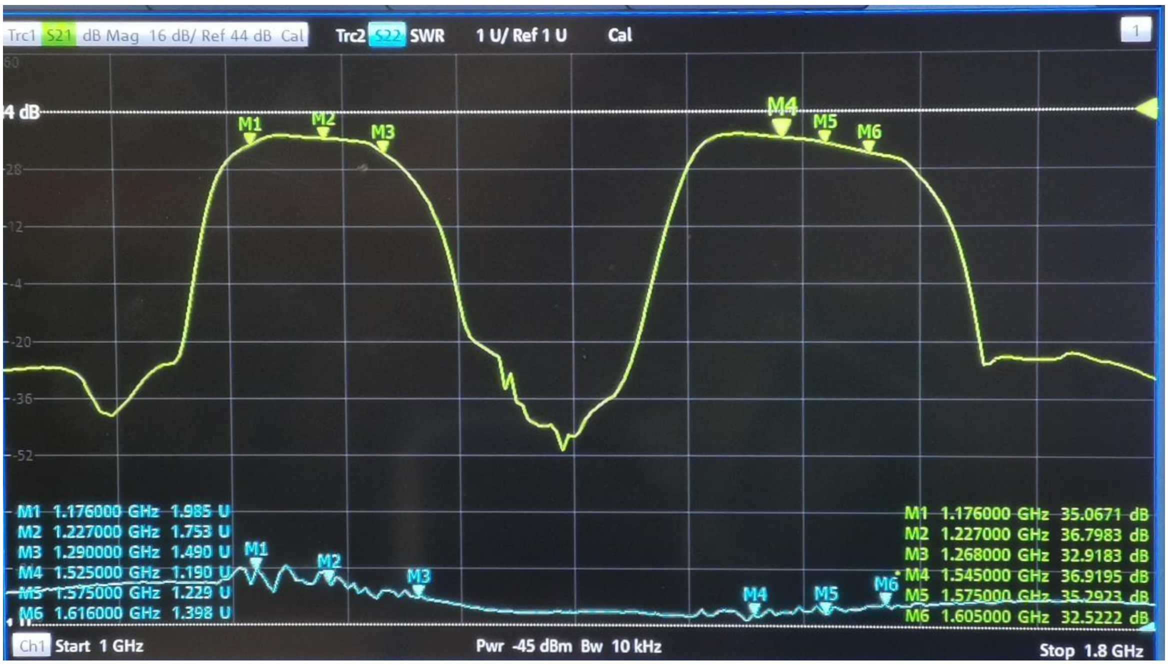
※ Dielectric antenna,very low noise figure.

※ Lightning proof circuit inside can protect the LNA from being damaged by surge immunity.

※ 37% smaller and 40% lighter than traditional GNSS antenna based on ceramics.

Key Features

Passive antenna parameter		LNA parameter		Environmental adaptability	
Frequency	BDS B1/B2/B3/B1C/B2A GPS L1/L2/L5 GLONASS L1/L2/L3 GALILEO E1/E5a/E5b/E6 L-Band	LNA gain	L2: 38±2dB L1: 37±2dB	Size	Φ110*10mm minimum
Output impedance	50 Ω	Noise figure	≤1.8dB	Weight	≤100g
Polarization	RHCP	Output VSWR	≤2.0	Connector	TNC-Male
Axis ratio	≤3dB	Flatness	±2dB	screw thread	UNC 5/8 “-11
Coverage angle	0° ~360°	Voltage	DC3.0V～12V	Waterproof	Yes
Output VSWR	≤1.5	Current	≤48mA	Operating Temperature(℃)	-40℃～+85℃
Max gain	5.0dBi			Storage Temperature(℃)	-55℃～+85℃
Phase center error	±2mm				



STRUCTURAL DRAWING