Harxon OEMANTENNA SERIES

GNSS OEM Antenna HX-CSX078A

Product Introduction

The HX-CSX078A is a compact, wideband GNSS antenna from Harxon that provides accurate reception for all upper GPS L1\L2\L5 $\$ GLONASS L1\L2 and BDS B1\B2\B3 and Galileo E1\E5a\E5b\E6 signals and L-band.

The HX-CSX078A has exceptional pattern control, polarization purity and high efficiency in a very compact form factor. Antenna element has high gain and wide beam width to ensure the signal receiving performance of satellite at low elevation angle.

The HX-CSX078A is the smallest, lightest, GNSS antenna for reception of all GNSS constellations. The built-in 111mm circular ground plane should ideally be augmented with a local system ground plane.

OEM antenna are easily detuned by the local environment, Harxon offers custom tuning services for optimized integration into OEM end-user modules.

Technical Features

- GPS L1\L2\L5, GLONASS L1\L2, BDS B1\B2\B3, Galileo E1\E5a\E5b\E6 bands and L-band.
- Multi-path rejection board inside can eliminate the multi-path influence on measurement error.
- High stability and high repeatability at phase center.
- Very low noise figure.
- Ground plane independent.
- GIS&RTK applications.



Technical Parameter

Antenna Spec		Output VSWR	≤2.0
Frequency Range	GPS L1/L2/L5	In-band flatness	$\pm 2 dB$
	GLONASS L1/L2	Operation Voltage	3.3~12VDC
	BDS B1/B2/B3	Operation Current	≪45mA
	Galileo E1/E5ab/E6	Group Delay	≪5ns
	L-band	Mechanical Spec	
Impedance	50ohm	Dimension	Φ 111*24.5mm
Polarization	RHCP	Connector	MCX-C-JW1.5
Axial Ratio	≤3dB	Weight	≪220g
Azimuth Coverage	360°	Environment Spec	
Output VSWR	≤2.0	Operating Temp	-40°C∼+85°C
Peak Gain	5.5dBi	Storage Temp	-55℃~+70℃
Phase Center Error	± 2 mm	Humidity	95% No-condensing
LNA Spec		Hannary	sevente condensing
LNA Gain	40±2dB		
Noise Figure	≤2.0dB		

Structural Drawing







TOP VIEW

SIDE VIEW

BOTTOM VIEW



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