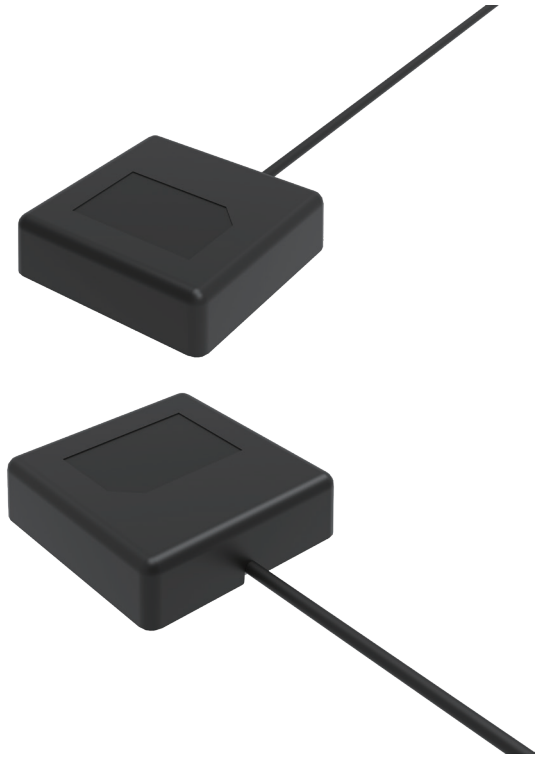
AN1513

GNSS L-band External Antenna



Features

- **Dual-Feed Design for Superior Signal Quality**
  This antenna features a dual-feed design optimized for low axial ratio, ensuring superior signal reception and minimal multipath interference across the entire L-Band spectrum.
- **Front-End SAW Filter for Noise Rejection**
  Minimize interference from nearby cellular transmitters and other sources with the integrated SAW filter, ensuring consistent performance even in challenging environments.
- **High Gain and Low Noise Performance**
  With a 33 dB gain LNA and a maximum noise figure of 3.0 dB, the antenna ensures strong satellite signal reception with minimal interference.

Application

- **Autonomous Vehicles**
  Deliver precise location data for safe navigation and route planning in self-driving systems.
- **Satellite Communication Systems**
  Receive correction signals from satellites to enhance the accuracy of GNSS receivers for applications like surveying.
- **Geographic Information Systems (GIS)**
  Support accurate map creation and spatial data analysis for urban planning and environmental monitoring.

Item \ Model No.		AN1513
Antenna 1		**L-Band**
Frequency Range	MHz	1525-1559
Gain at Zenith	dBic	4.7
Axial Ratio	dB	0.8 – 0.9
Polarization		RHCP
Radiation Pattern		Hemispherical
LNA Gain	dB	33.0 ± 3.0
Noise Figure	dB	3.0 max.
Output VSWR	:1	2.0 max.
Out-of-Band Rejection	dB	65 min.
Saw Filter Type		Pre-Filter
Current Consumption	mA	40 max. @ 3.0 – 5.5 VDC
Cable		RG-174/U, 3000mm (Any Cable Length Available)
Connector		FAKRA-Female (Code A) (Other Connectors Available)
		Mechanical
Mounting		Adhesive
IP Rating		IP51
Dimensions		50(W) x 50(L) x 15(H) mm