

Antenna, GNSS L1 L2

ERF4148



Introduction

ERF4148 is an Active multi band GNSS External antenna. The best position for the GNSS receiver, is in an unobstructed sky like on rooftop, the top deck of ship, roof of a vehicle or on top of communication tower.

Features

- High positioning accuracy
- GPS band support
- IPX7 Rated
- Active GNSS with integrated LNA
- High LNA gain of 28 dB
- Low VSWR of 2.0
- RHCP polarization
- Nut fixation
- Improved GNSS reliability

Application

- GPS applications
- Time service
- M2M
- IOT
- Fleet management and asset tracking
- Autonomous driving
- Telematics
- Agriculture
- Instrumentation

Frequency Bands covered

GPS	L1	L2
GLONASS	G1	
Galileo	E1	E5b
BeiDou	B1i	B1c B2b
QZSS	L1	L2c

Electrical Parameters

	Min	Typical	Max	Units	Note
Gain RHCp		3.0		dBic	L2 Band
		3.5		dBic	L1 Band
Axial Ratio			3.0	dB	
Polarization	RHCP				
LNA Gain	25	28	31	dB	
Noise Figure		2.5		dB	
Out-band rejection	45			dB	FI-100Mhz
	35			dB	Fh+100Mhz
VSWR			2.0		
Operation Voltage	2.5		16	VDC	
Operation Current	15	20	25	mA	

Mechanical Properties

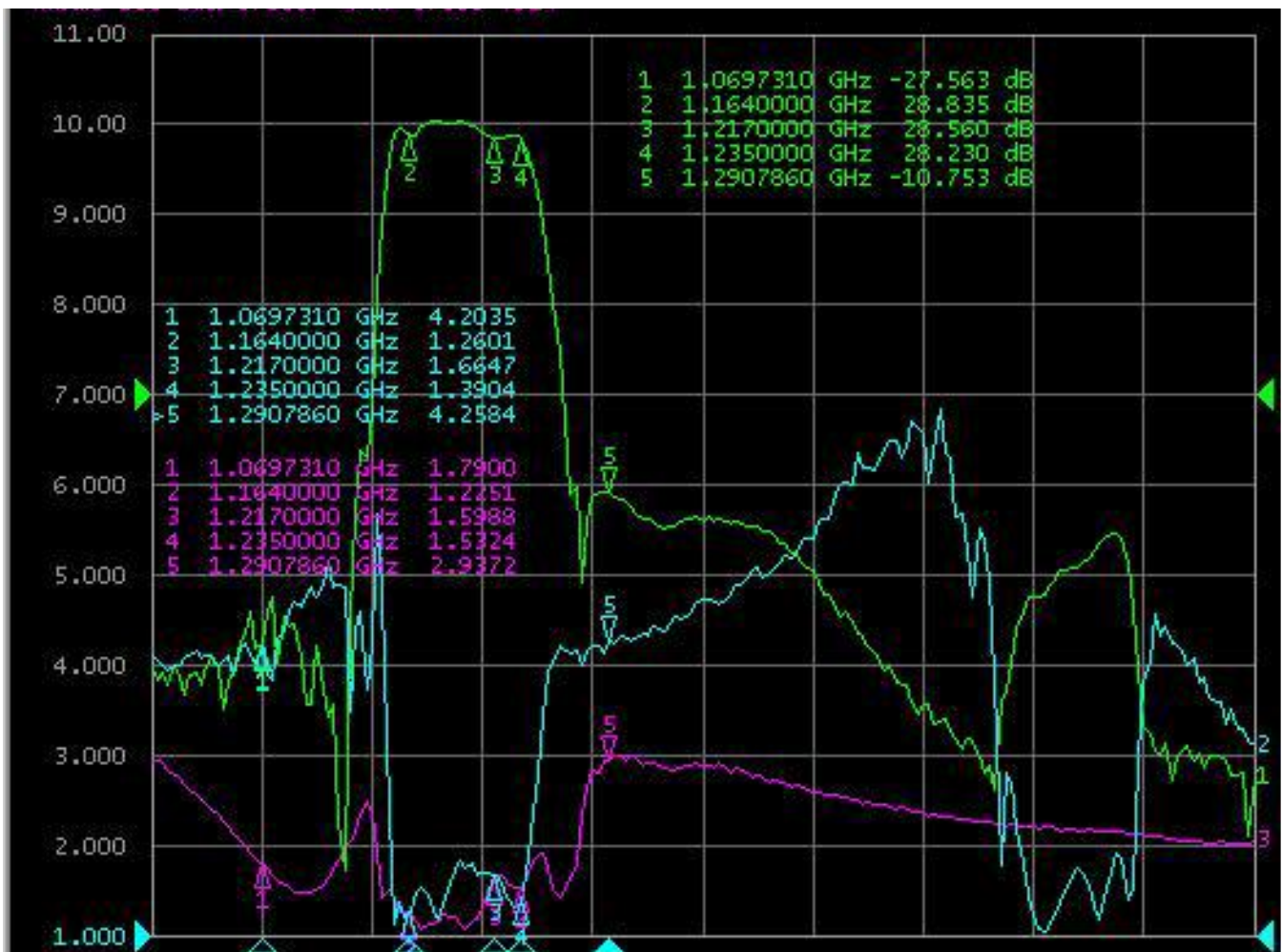
Dimensions	67x67x21.5 mm
Connector	TNC (female)
Mounting	Bracket/Nut fixation
Radom material	EXL9330
Operating Temperature	-40°C~+85°C
Ingress Protection	IP67
Relative Humidity	Up to 95%

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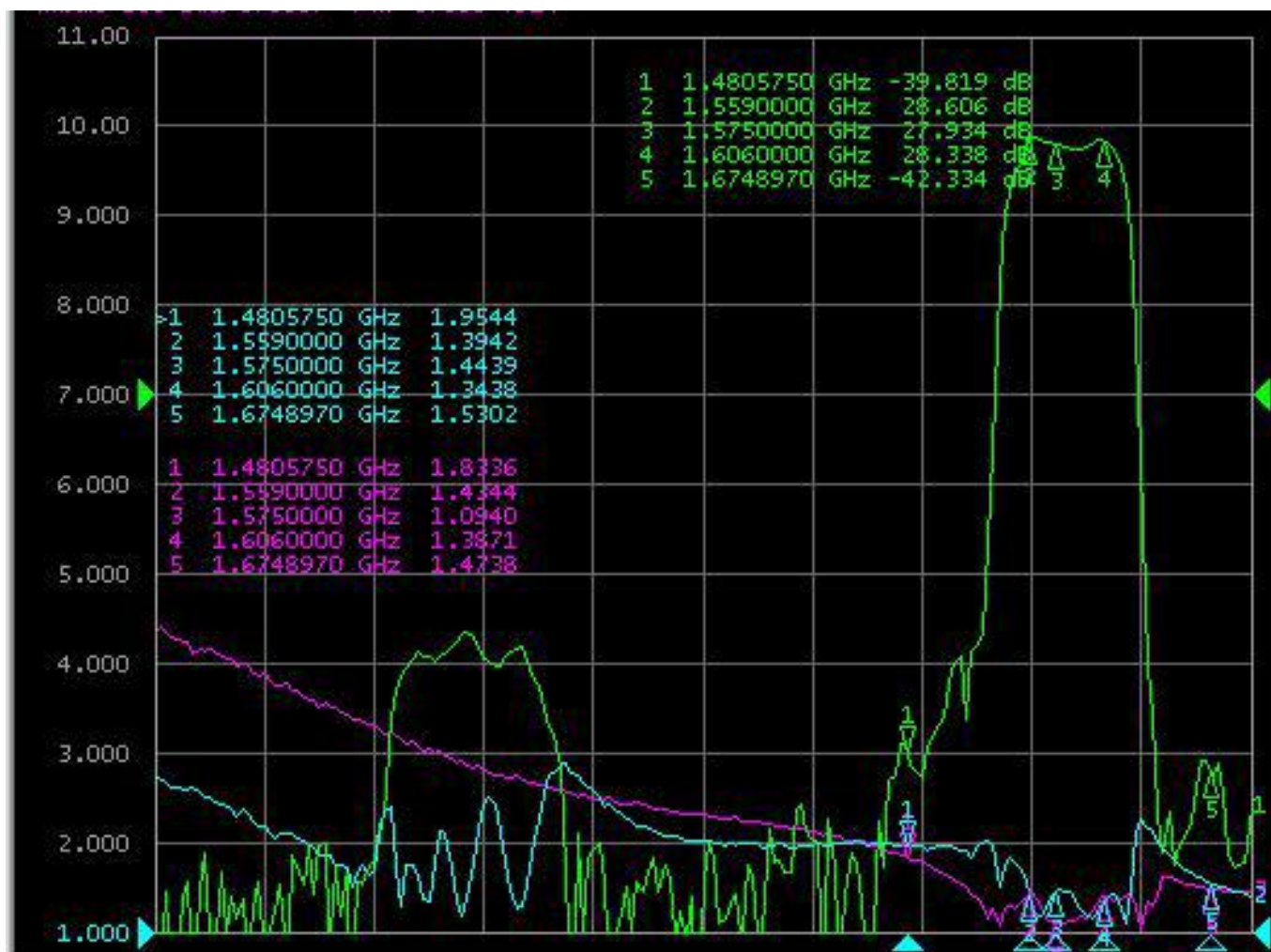
Antenna Properties

LNA Gain & VSWR



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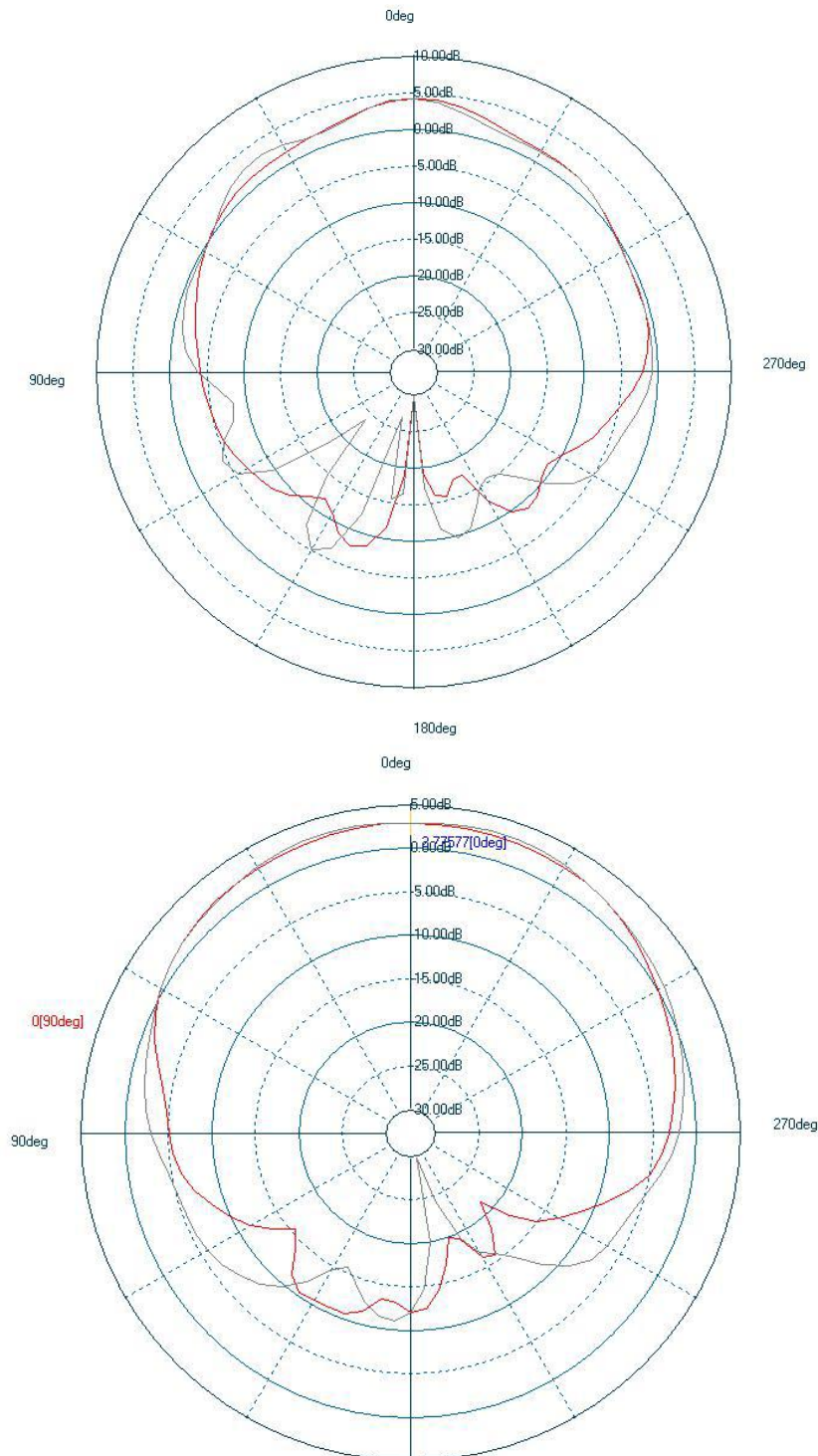
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Gain

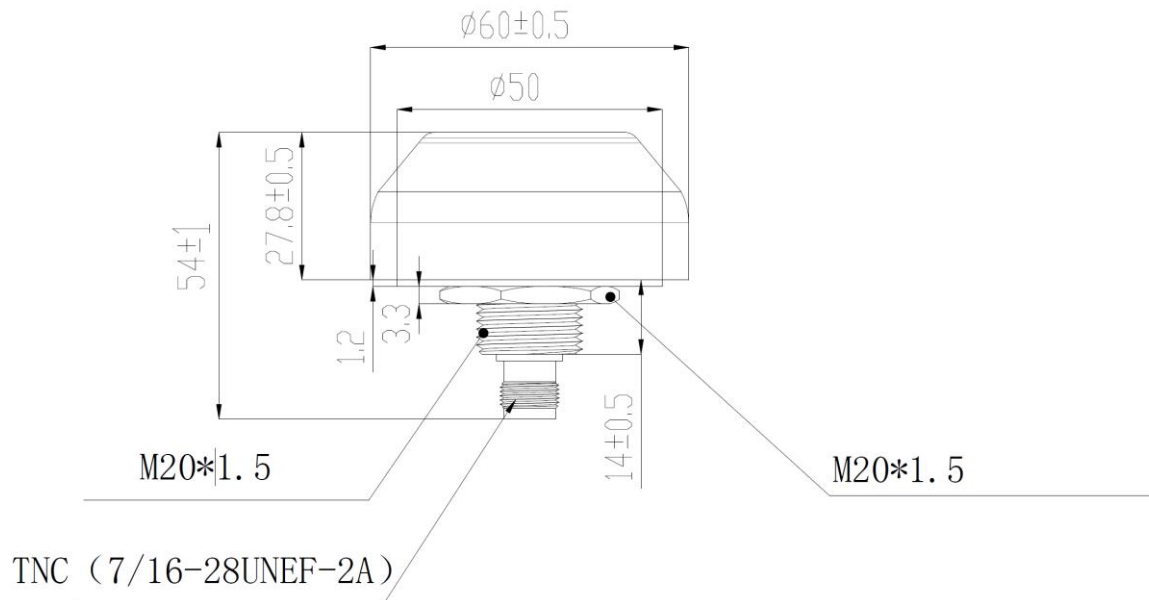


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Dimensions



Ordering information

Ordering can be done via www.summit-electronics.com or via info@summit-electronics.com. Please contact us for more information. Customisation of the product is available on request.

Technical support

For all product questions please contact us via info@summit-electronics.com

Document revision

Rev	Date	changes
V01.00	06-01-2025	First issue of document