Active Multiband GNSS External Antenna



AEACBD050018-SG3

50.0 x 50.0 x 18.0 mm
RoHS/RoHS II Compliant
MSL = 1

Features

- High positioning accuracy
- GPS/GLONASS/BeiDou/Galileo band support
- IP67 Rated
- Gain of 5.0 dBic
- Active GNSS with integrated LNA
- High LNA gain of 34 dB
- Low VSWR of 1.5
- RHCP polarization
- Magnetic mounting
- Improved GNSS reliability

Applications

- GPS/GLONASS/BeiDou/Galileo applications
- IoT
- M2M
- Surveillance
- Fleet management and asset tracking
- Autonomous driving
- Telematics
- Agriculture
- Instrumentation
- Survey

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Electrical Specifications

Parameters	Min.	Typ.	Max.	Units	Note
Frequency Range		1561.098 ~ 1602		MHz	
VSWR			1.5		
Polarization		RHCP			Right Hand Circular Polarization
Impedance		50		Ω	
Gain		5		dBic	@PCB Zenith
Axial Ratio			3	dB	

LNA Parameters	Min.	Typ.	Max.	Units	Note
Gain	32	34	36	dB	
VSWR			2.0		
Noise Figure			1.5	dB	
Supply Voltage		3~5		V	DC
Current Consumption			20	mA	

Mechanical Characteristics

Parameters	Description
Connector	SMA
Cable Type	RG174/3M
Mounting	Magnet
Radom Material	ABS

ABRACON LLC
5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 01.25.2019

ABRACON IS ISO9001-2015 CERTIFIED

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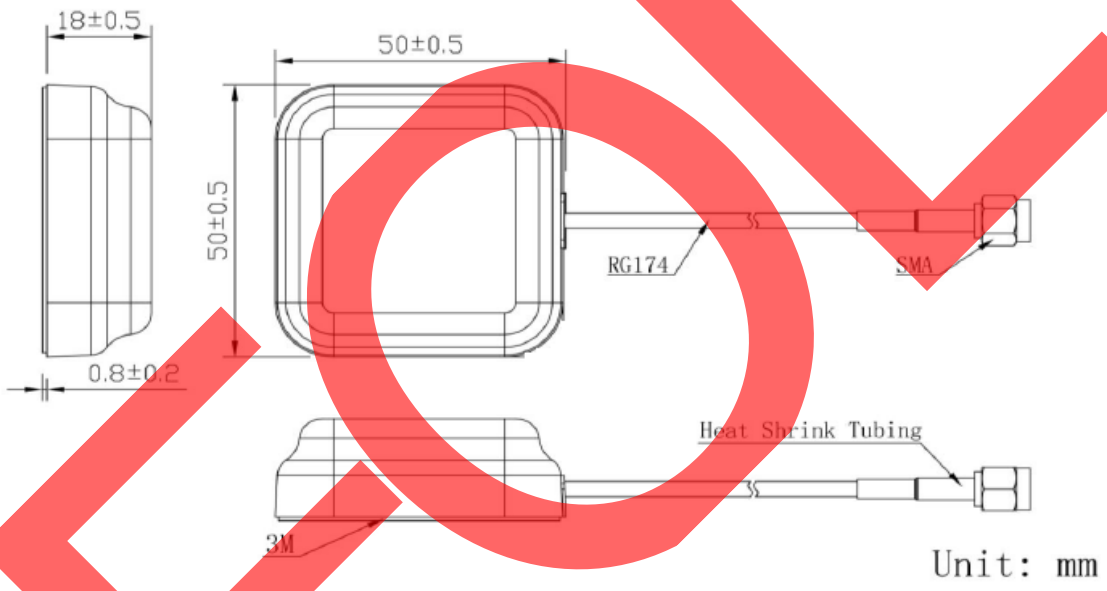
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Environmental Characteristics

Parameters	Description
Ingress Protection	IP67 rated
Operating temperature	-40ºC to +85ºC
Relative Humidity	Up to 95 %
Vibration	10 to 55 Hz with 1.5 mm amplitude 2 hours

Dimensions



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Product Image



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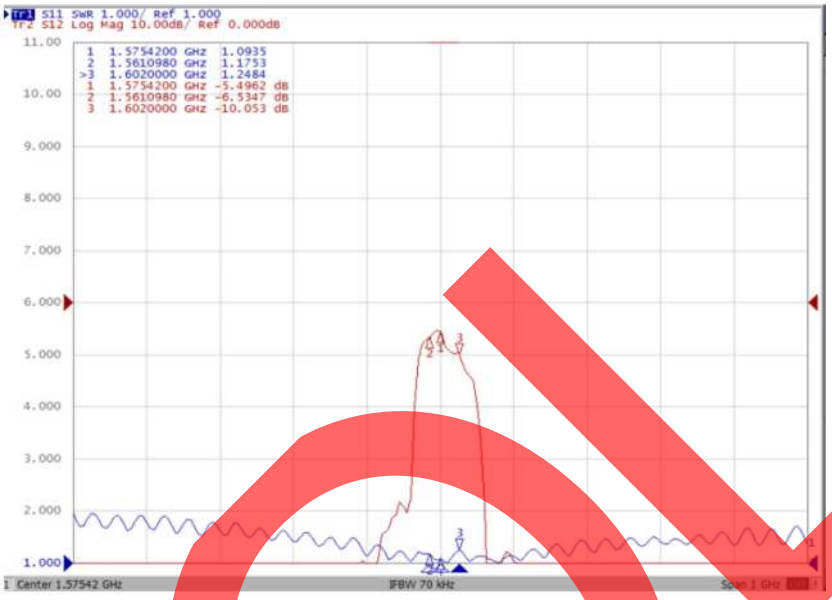
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VSWR

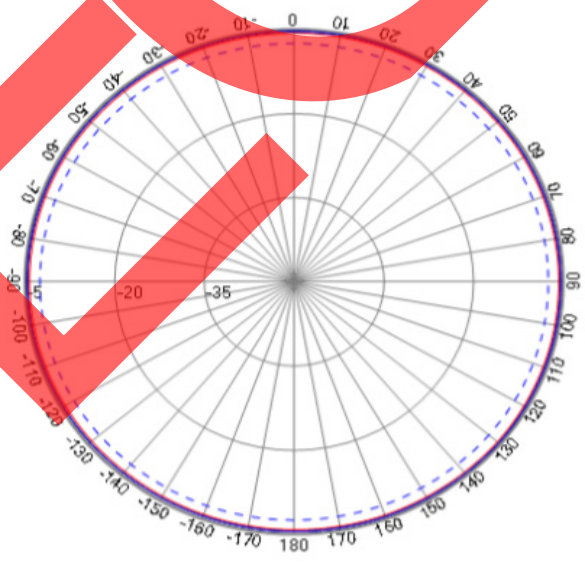


Radiation Patterns:

2D- Pattern

Frequency: --- 1561 --- 1575 --- 1602

XY - Plane



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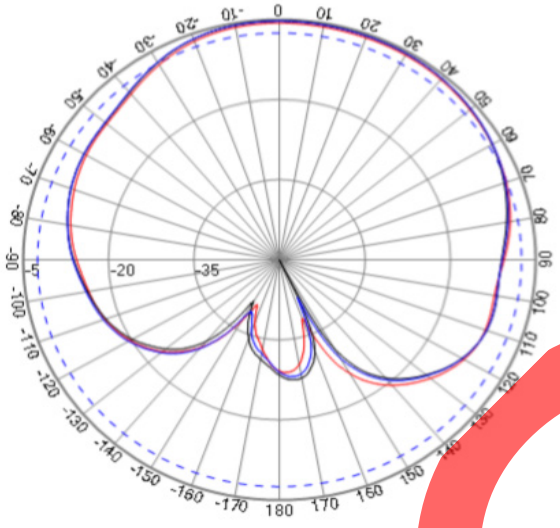


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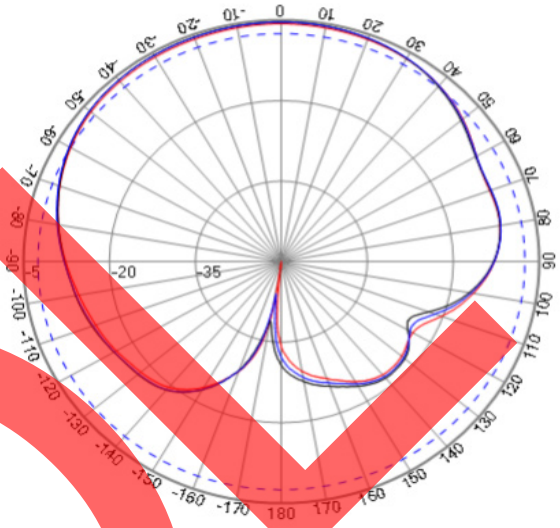
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Radiation Patterns:

XZ - Plane

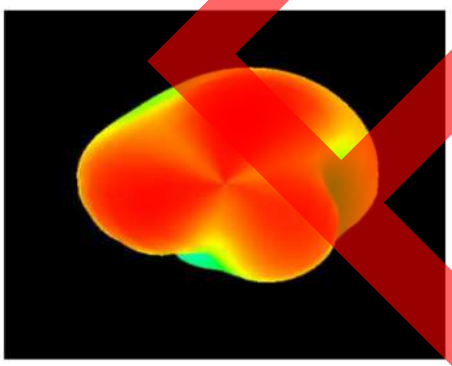


YZ - Plane

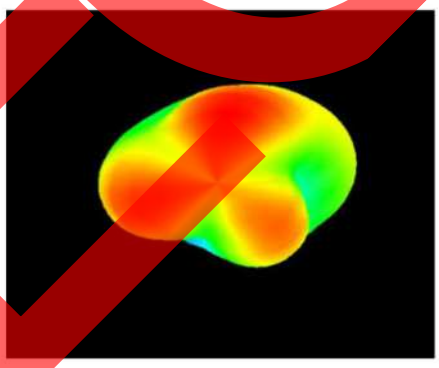


3D- Pattern

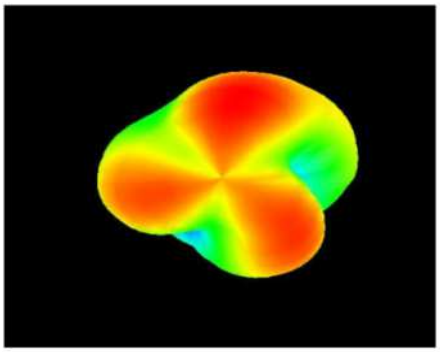
Frequency: 1561 MHz



Frequency: 1575.42 MHz



Frequency: 1602 MHz



Packaging

The carton weighs of 15 Kgs and has 100 pieces in a dimension of 70.0 x 32.0 x 16.0 cm.

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