

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

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. | Тур. | 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 |





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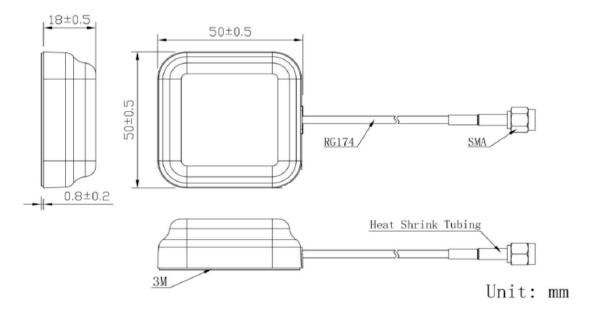


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Environmental Characteristics

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

Dimensions



Product Image





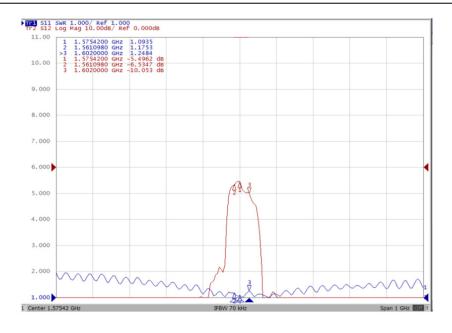


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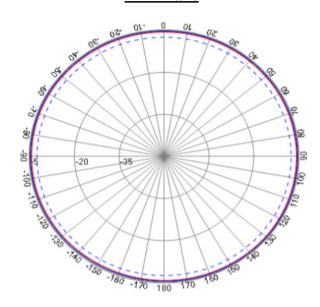
VSWR



Radiation Patterns:

2D-Pattern

Frequency: --- 1561 --- 1575 --- 1602 XY - Plane



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ABRACON IS ISO9001-2015 CERTIFIED

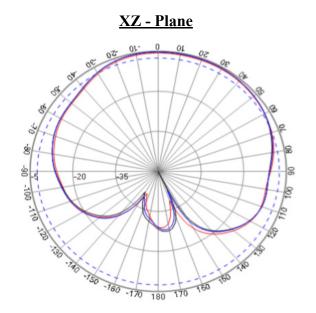


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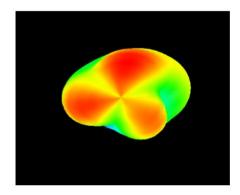
Radiation Patterns:



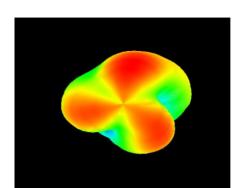
YZ - Plane

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.

