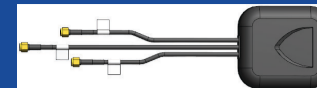


GPS/GSM/WiFi Combinational Antenna



AEACBD059015-C3GSW

52 x 59 x 15 mm
RoHS/RoHS II Compliant
MSL - 1

FEATURES

- Active GPS with integrated LNA
- 2G/3G band support
- 2.4 GHz WiFi
- Circular polarization
- Magnetic mounting

APPLICATIONS

- Telematics
- Smart meter
- Transportation
- Remote monitoring
- IoT
- M2M

Electrical Characteristics

| Parameters | Min. | Typ. | Max | Units | Note |
|-------------------------|------|----------------------|-----|-------|--------------------------|
| GPS Antenna | | | | | |
| Center Frequency | | 1575.42±1 | | MHz | |
| Band Width | | CF±5 | | MHz | |
| VSWR | | | 1.5 | | |
| Polarization Model | RHCP | | | | |
| Impedance | | 50 | | Ω | |
| Gain | | 2.0 | | dBic | Zenith |
| Axial Ratio | | | 3 | dB | |
| LNA Gain | | 28±2 | | dB | |
| LNA Noise Figure | | | 1.5 | | |
| LNA Ex-band Attenuation | | 12 16 | | dB | @ CF+50MHz @ CF-50MHz |
| LNA VSWR | | | 2.0 | | |
| LNA Supply Voltage | | 2.2~5 | | V | DC |
| LAN Current Consumption | | 5~15 | | mA | |
| GSM Antenna | | | | | |
| Frequency Range | | 824~960MHz/1710~2170 | | MHz | |
| VSWR | | | 2.0 | | |
| Polarization | | Linear | | | |
| Gain | | 2.0 | | dB | |
| Impedance | | 50 | | Ω | |

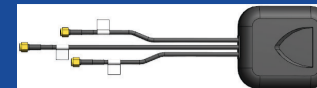


5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
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REVISED: 08.16.2018

ABRACON IS
ISO9001-2015
CERTIFIED

GPS/GSM/WiFi Combinational Antenna



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52 x 59 x 15 mm
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Electrical Characteristics

| Parameters | Min. | Typ. | Max | Units | Note |
|---------------------|------|-------------|-----|----------|------|
| WiFi Antenna | | | | | |
| Frequency Range | | 2400~2483.5 | | MHz | |
| Band Width | | 83.5 | | MHz | |
| VSWR | | | 2.0 | | |
| Polarization | | Linear | | | |
| Gain | | 3 | | dBi | |
| Impedance | | 50 | | Ω | |

Mechanical Characteristics

| Parameters | Note |
|------------|-----------------|
| Connector | SMA Male |
| Cable Type | RG174 |
| Mounting | Adhesive |
| Dimensions | 52 x 59 x 15 mm |
| Material | ABS |

Mechanical Characteristics

| Parameters | Note |
|------------------------|---|
| Operating Temperature | -40°C to +85°C |
| Relative Humidity | Up to 95% |
| Ingress Protection | IP65 to IP67 (exclude cable outlet) |
| Vibration | 10 to 55Hz with 1.5mm amplitude 2 hours |
| Environmental Friendly | ROHS Compliant |
| MSL Level | 1 |

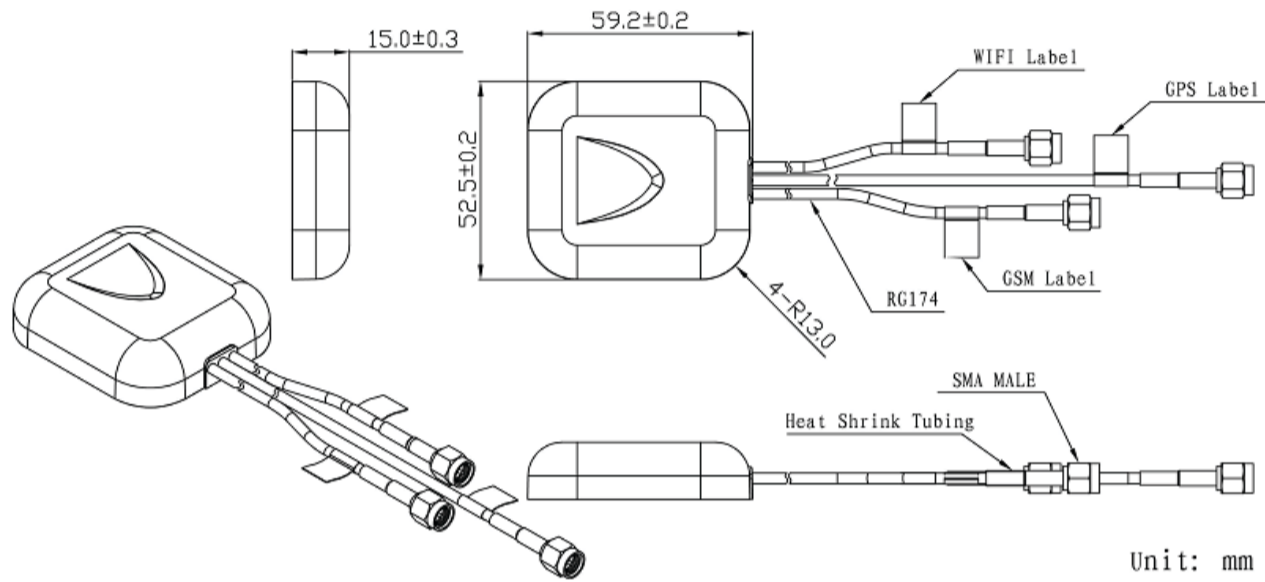
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Dimensions



Product Image



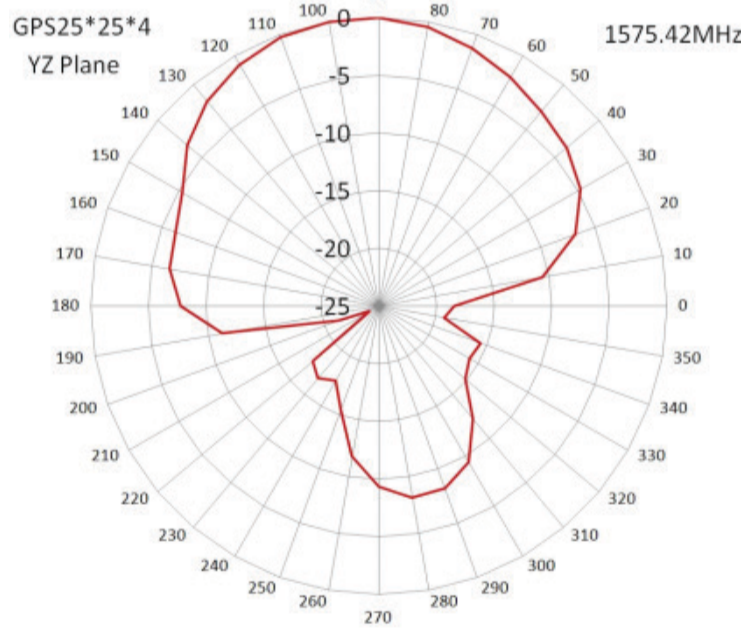
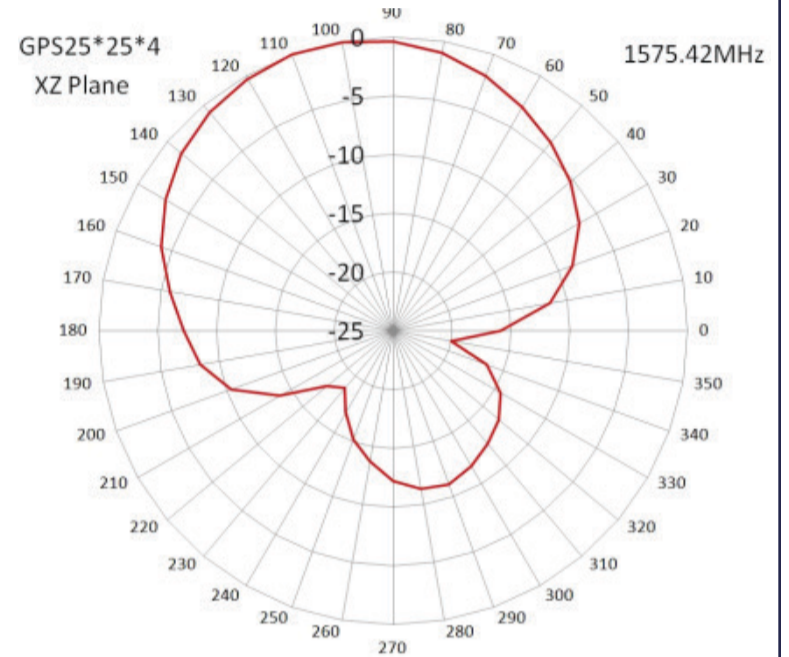
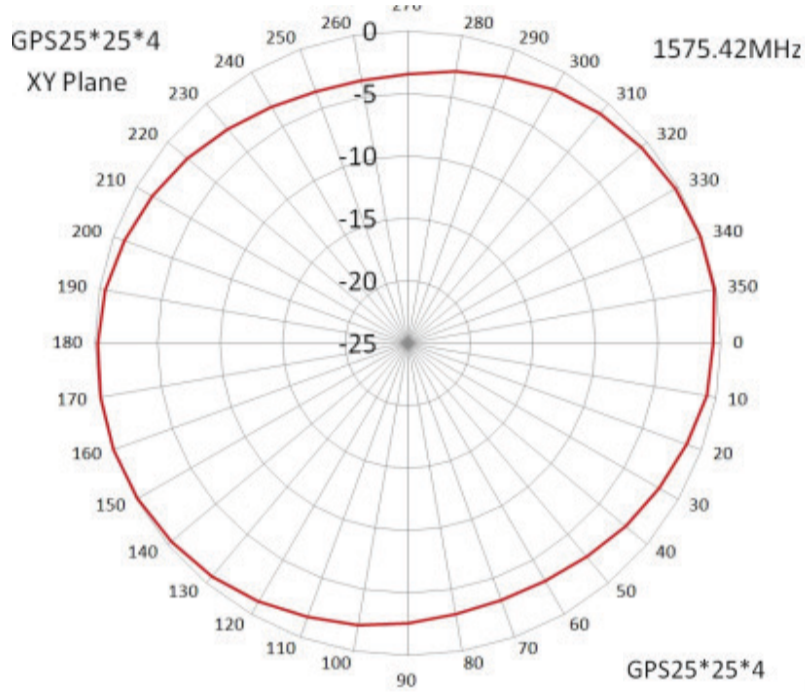


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Radiation Patterns

GPS Antenna



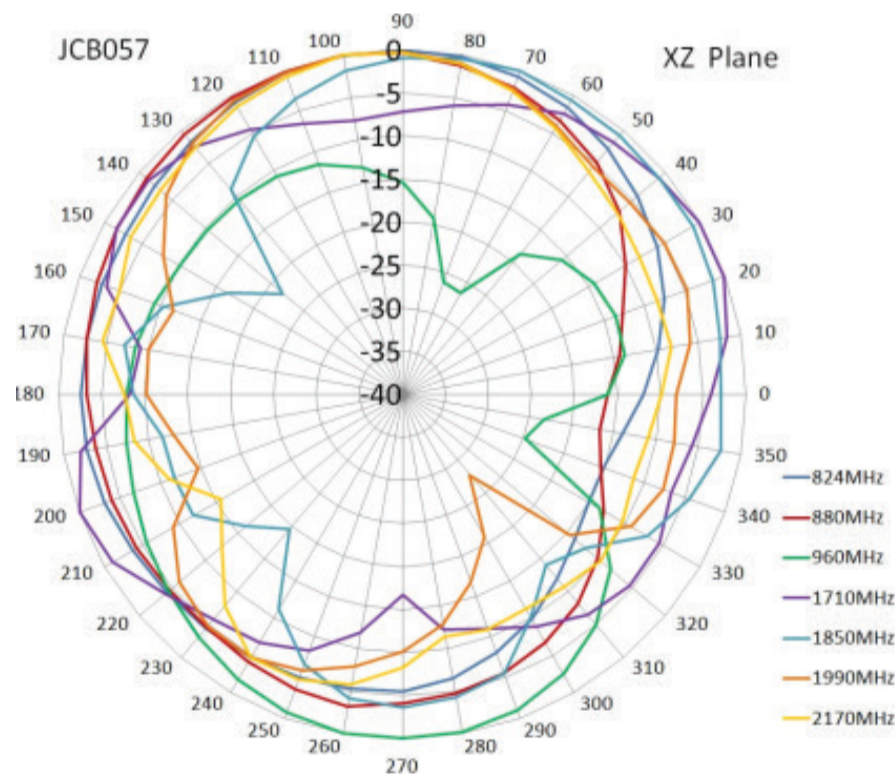
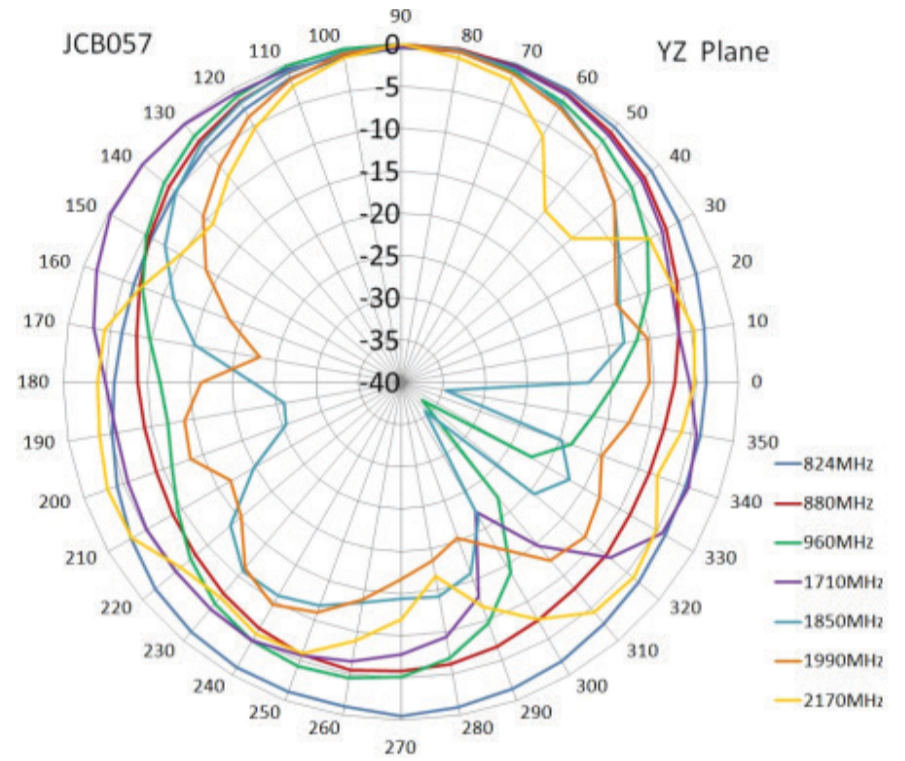
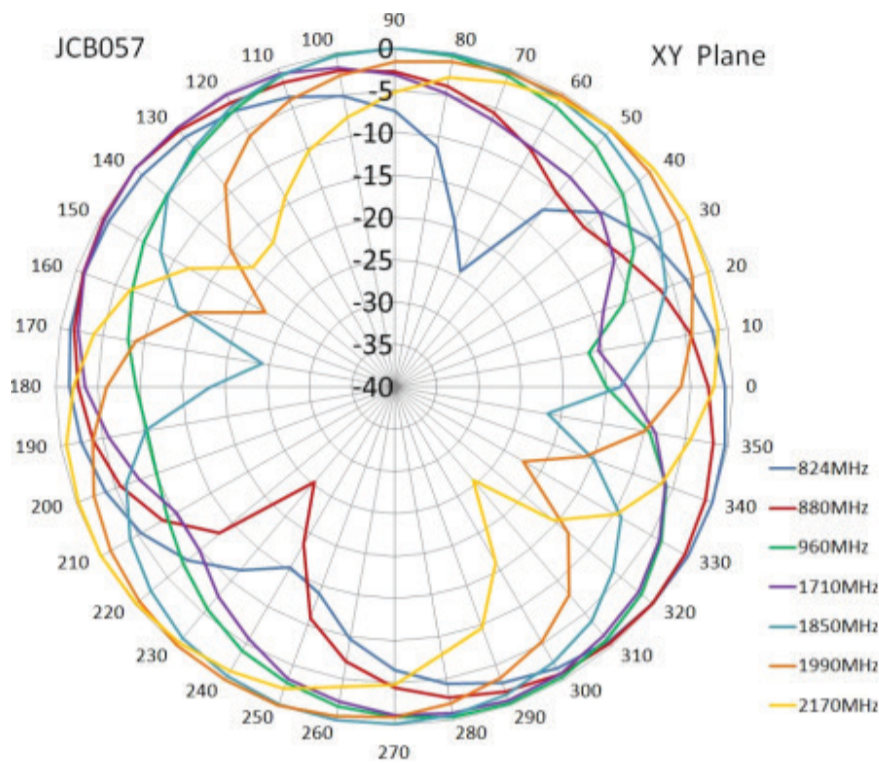


AEACBD059015-C3GSW

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Radiation Patterns

GSM Antenna



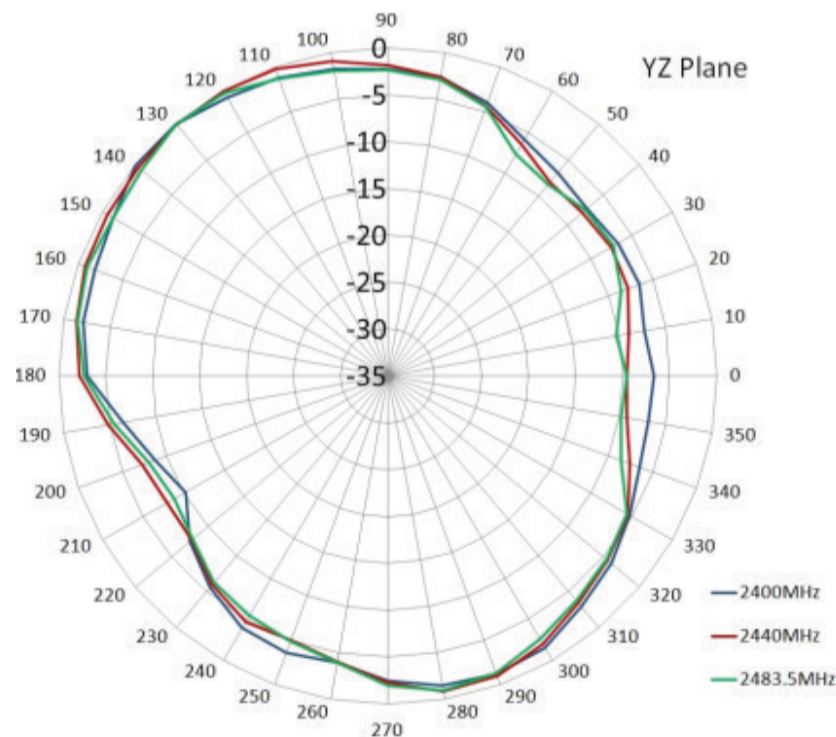
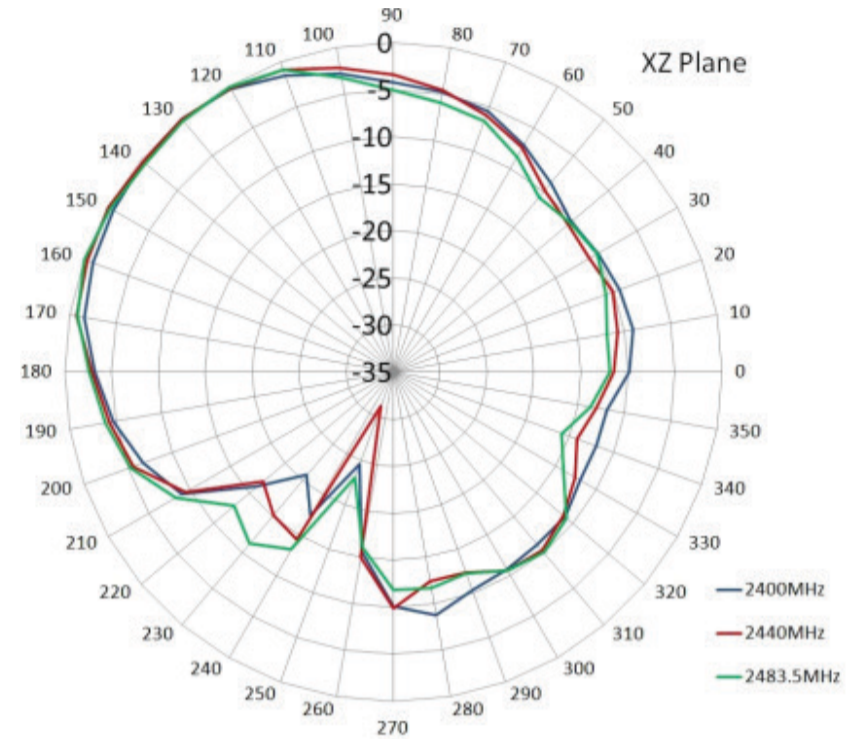
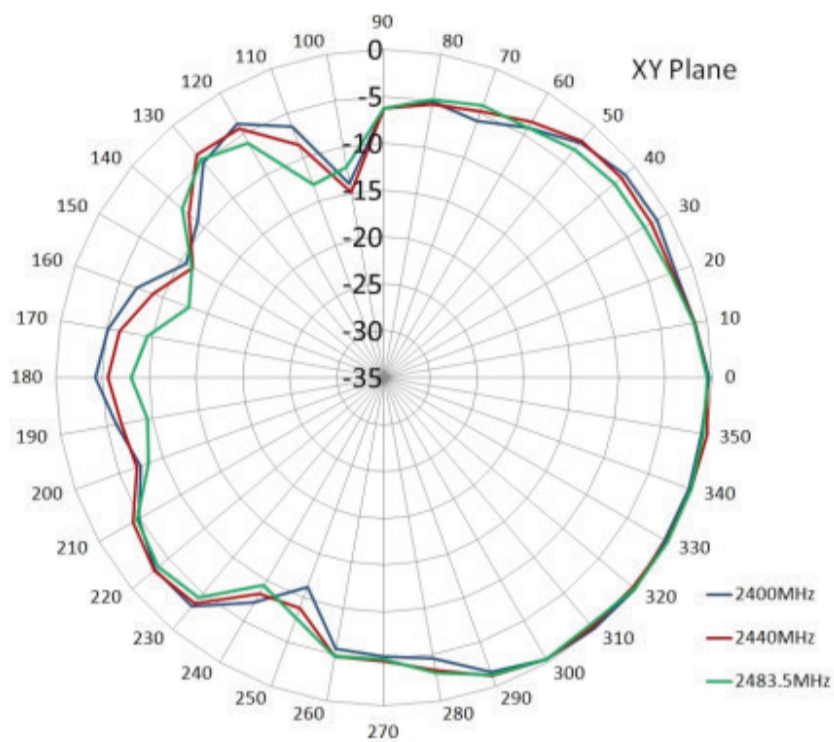


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Radiation Patterns

WiFi Antenna



Packaging

Each 70 x 32 x 15cm size carton includes 50 pcs antenna, weighs 12 kg



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