

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	

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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

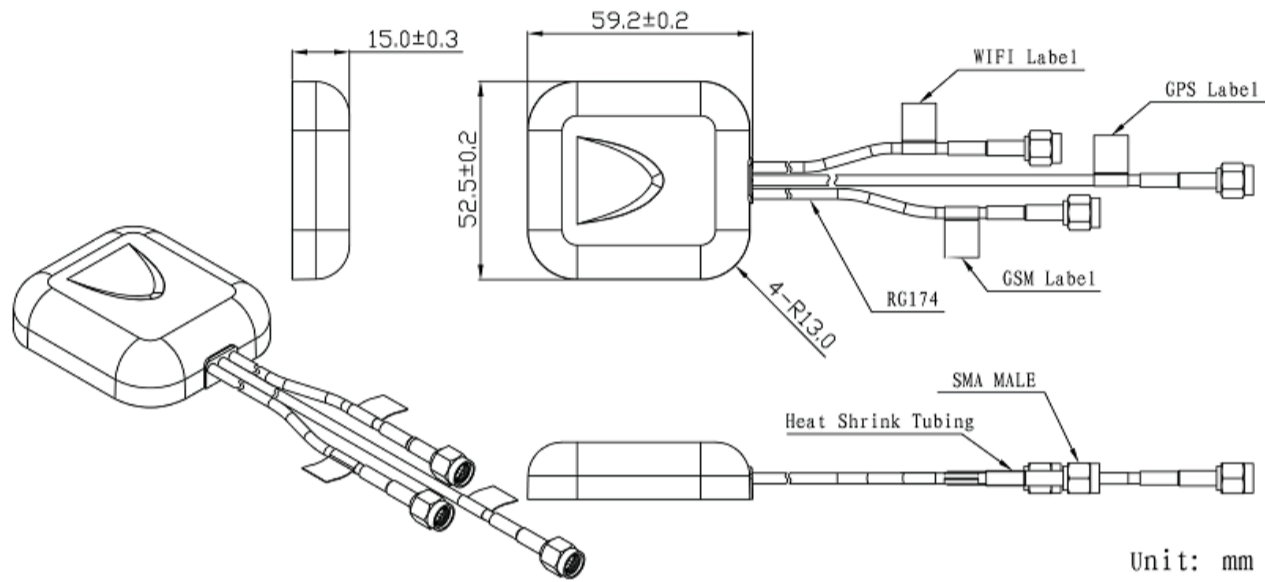
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Dimensions



Product Image



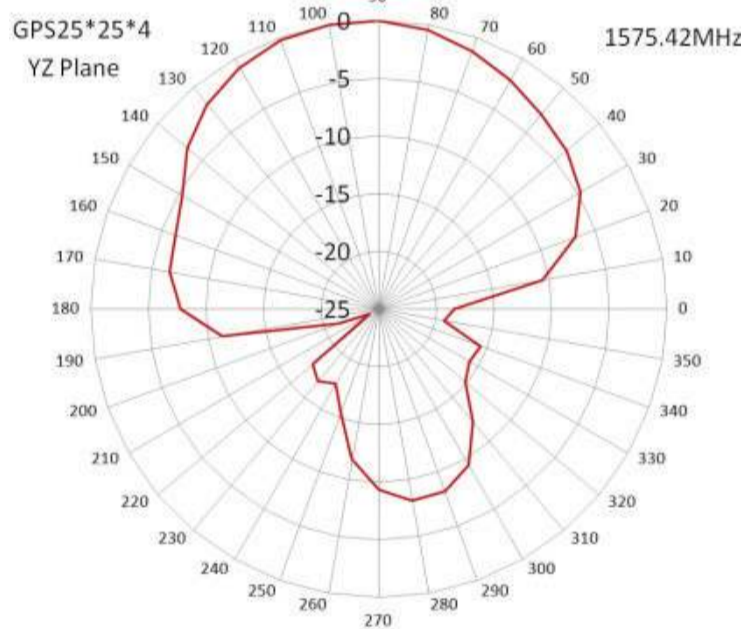
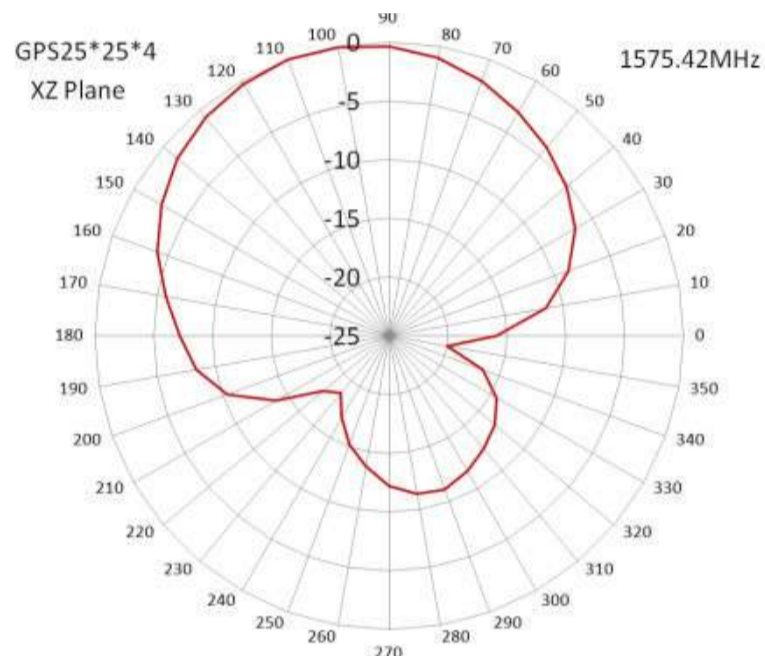
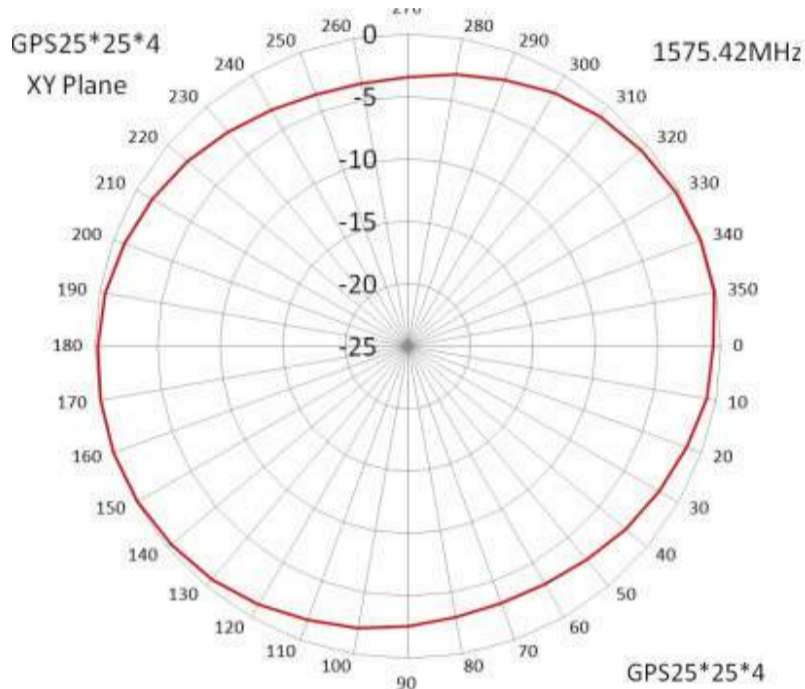


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Radiation Patterns

GPS Antenna



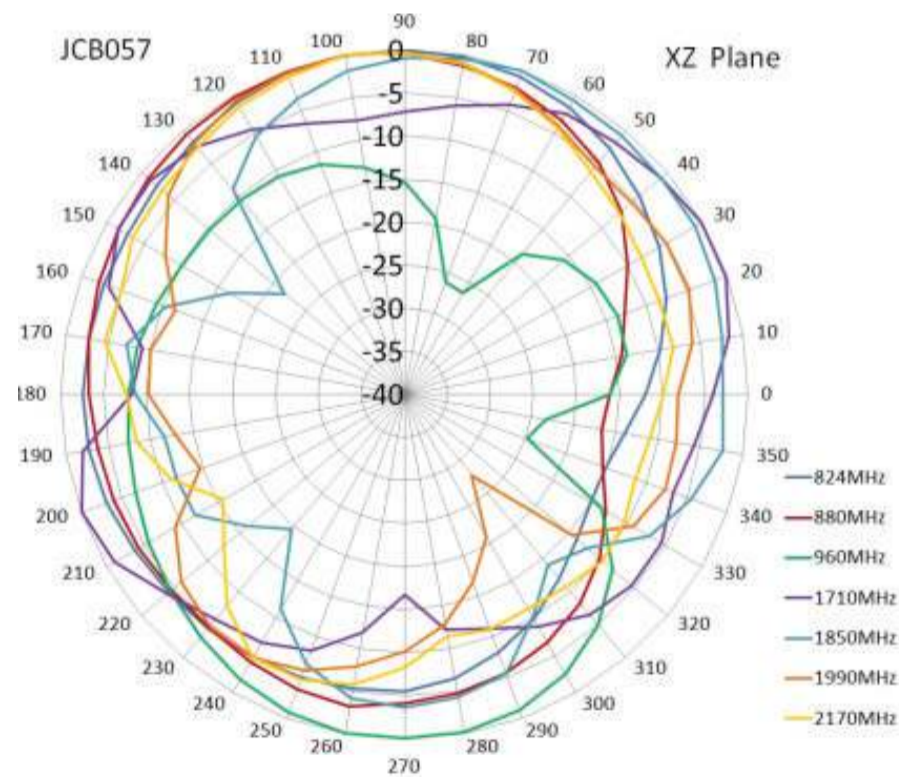
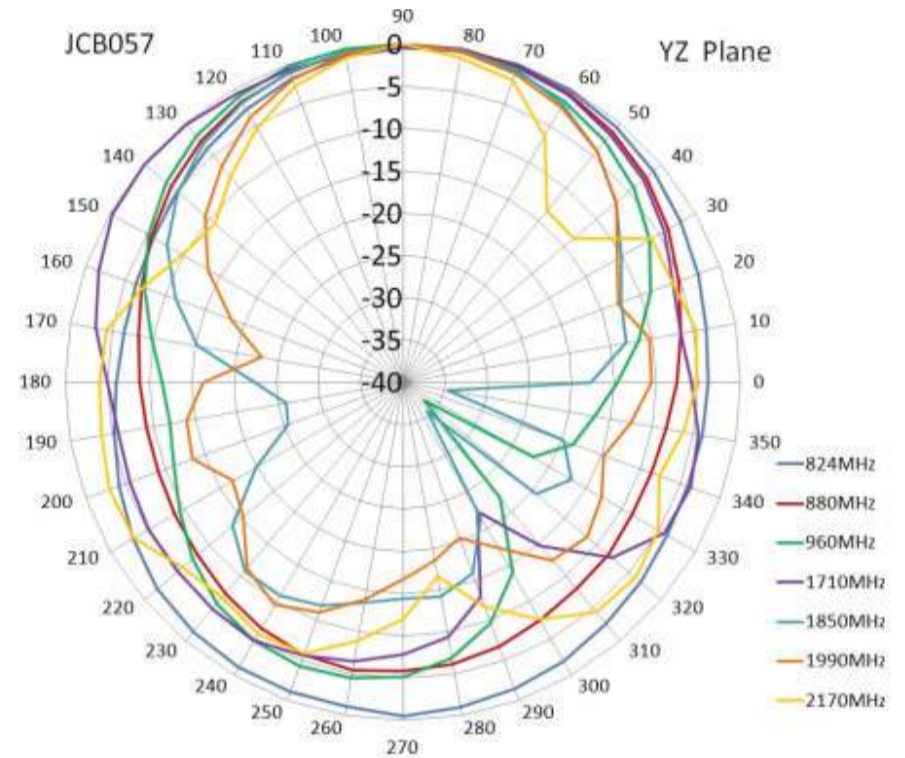
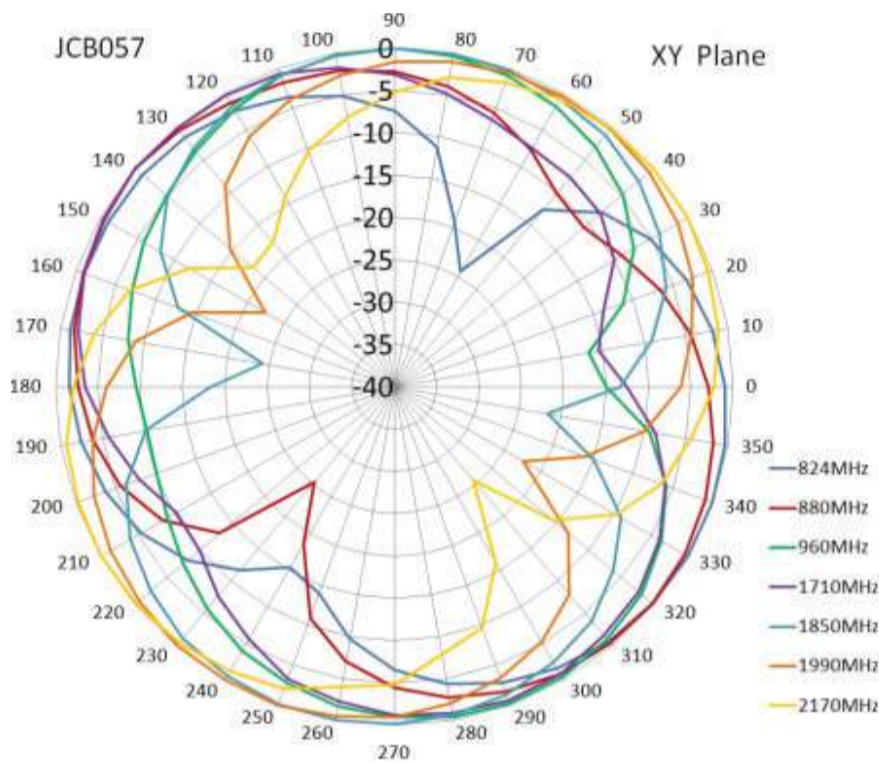


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Radiation Patterns

GSM Antenna



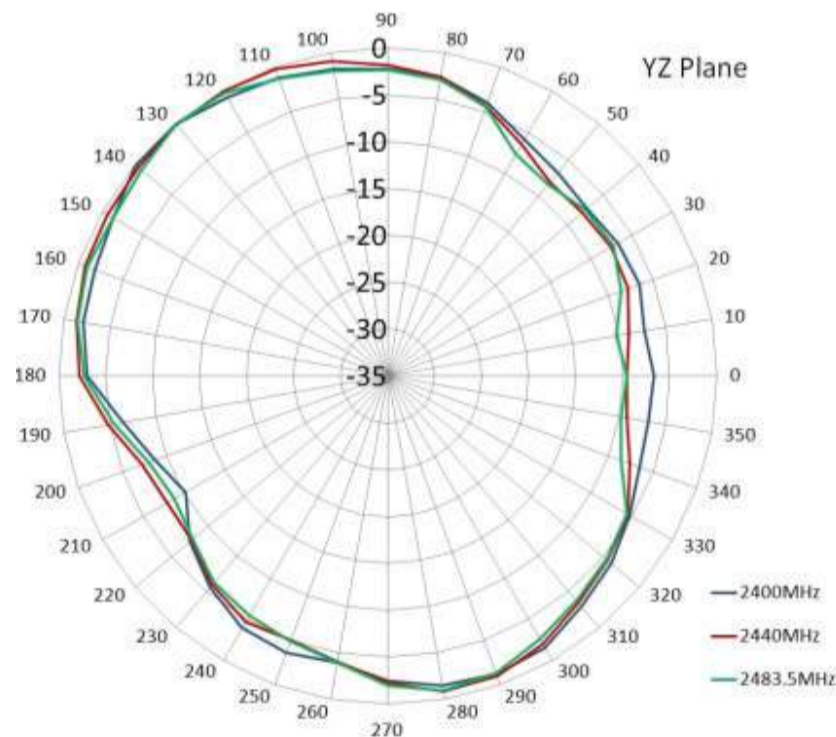
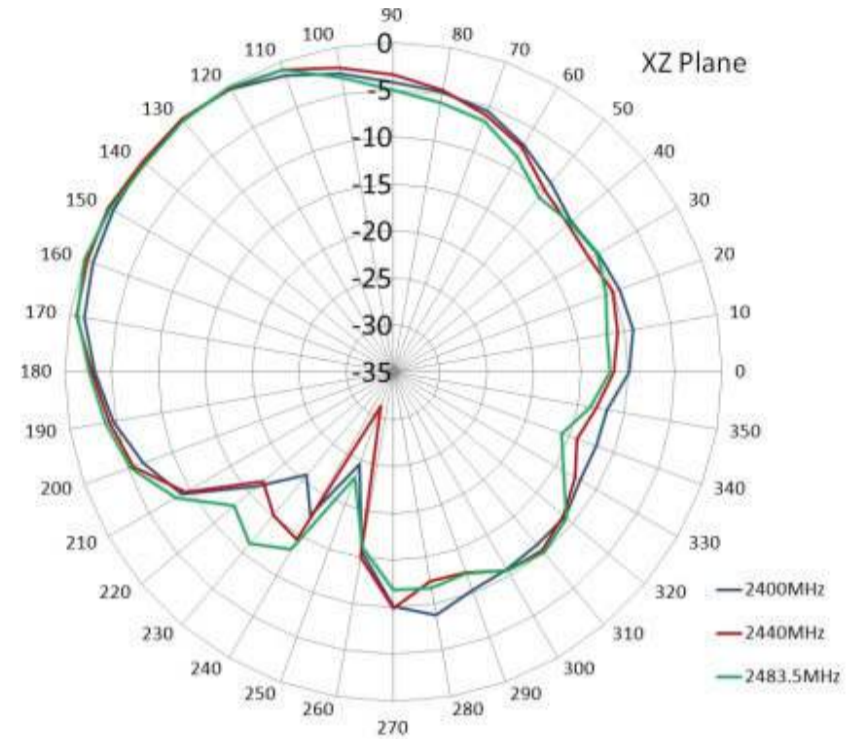
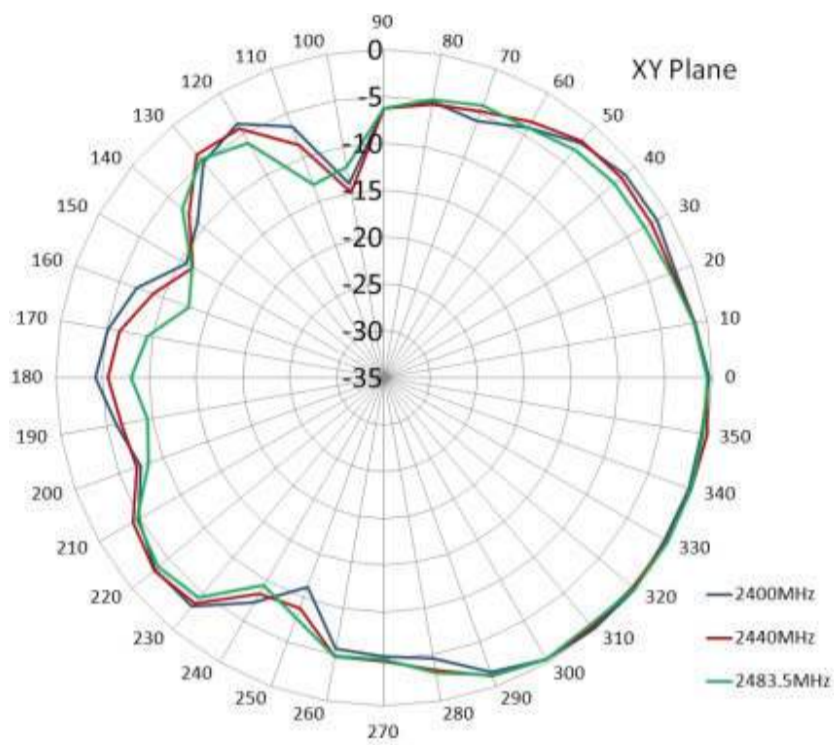


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Radiation Patterns

WiFi Antenna



Packaging

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