



**THE DATASHEET OF
AEACMK0660746-SG4**



Screw Mount Active GNSS Antenna



AEACMK0660746-SG4



76.0 x Ø66.0 mm
RoHS/RoHS II Compliant
MSL = 1

Features

- Multiband GNSS antenna
- Covers GPS, GLONASS, BEIDOU, Galileo bands
- High Gain of 5dBic
- RHCP polarization
- Active GNSS with integrated LNA
- High LNA gain of 40 dB
- High positioning accuracy
- Screw Mounting

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	Notes
Antenna					
Center Frequency	1561		1602	MHz	
VSWR			1.5		
Gain		5		dBic	Zenith; Ground plane size: 100 mm
Axial Ratio		4		dB	
Impedance		50		Ω	
Polarization		RHCP			
LNA					
LNA Gain		40		dB	
Noise Figure			2.5	dB	
Ex-Band Attenuation		50		dB	@ CF \pm 50 MHz
VSWR			2		
Supply Voltage	2.7		10	V	DC
Current Consumption			25	mA	
Impedance		50		Ω	

Mechanical Specification

Parameters	Description	Notes
Connector	TNC (F)	
Radome Material	ABS	
Mounting Method	Screw / Body	

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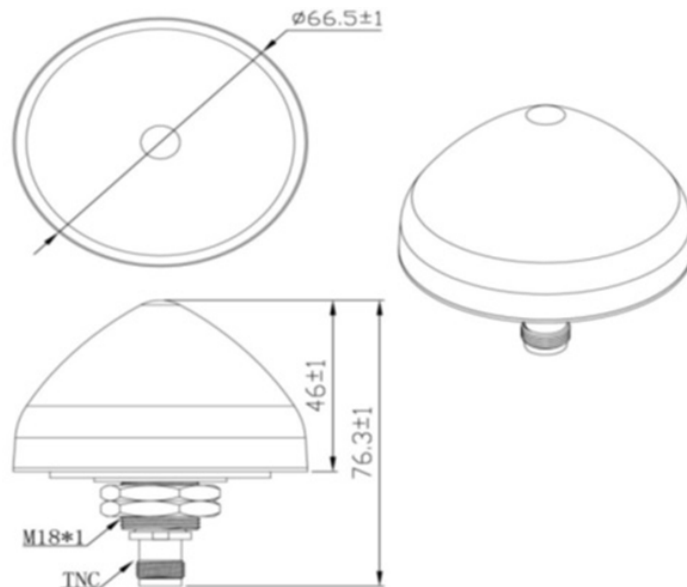


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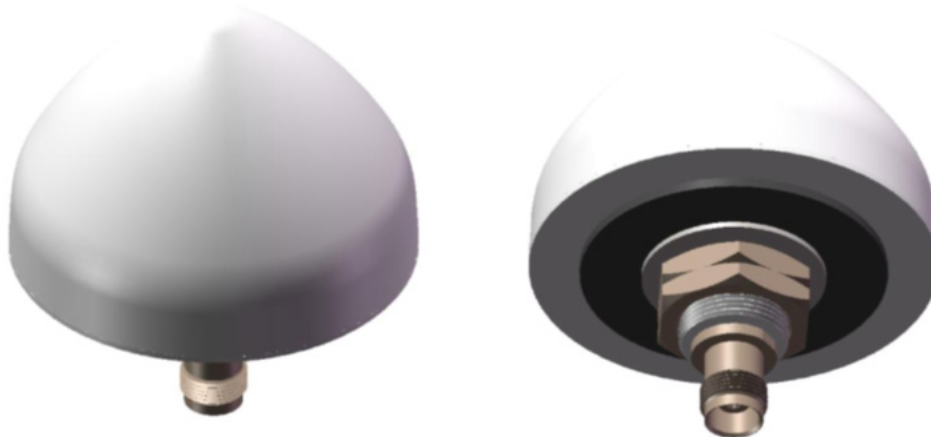
Environmental Specification

Parameters	Description	Notes
Operating Temperature	-40°C to +85°C	
Relative Humidity	Up to 95 %	
Ingress Protection	IP67	
Vibration	10 ~ 55 Hz with 1.5 mm amplitude 2 hours	
Shock	Vertical axis: 50G, Other axes: 30G	
ESD	15 KV	Air discharge

Product Dimension



Dimensions: mm



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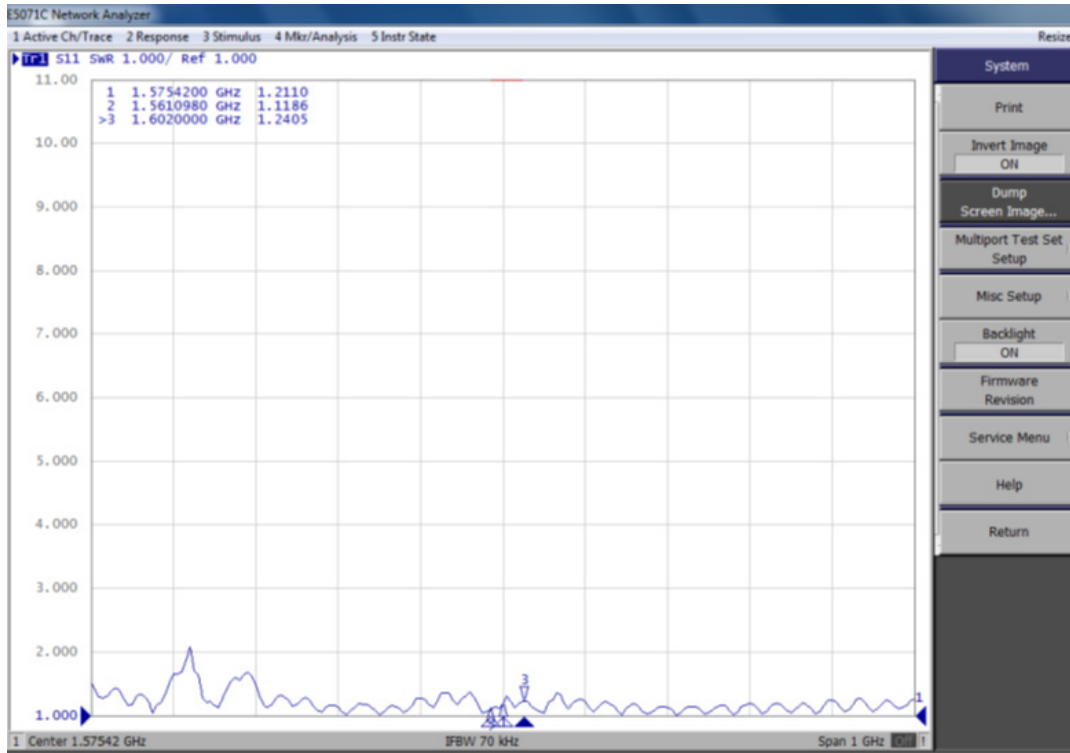


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VSWR



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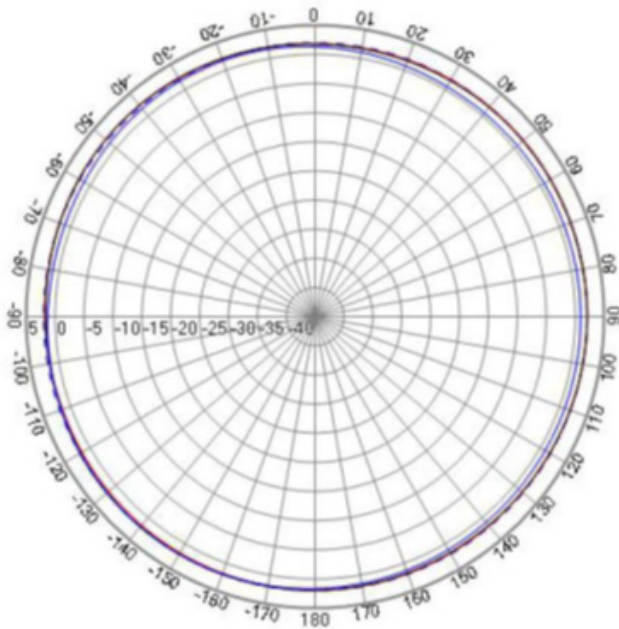


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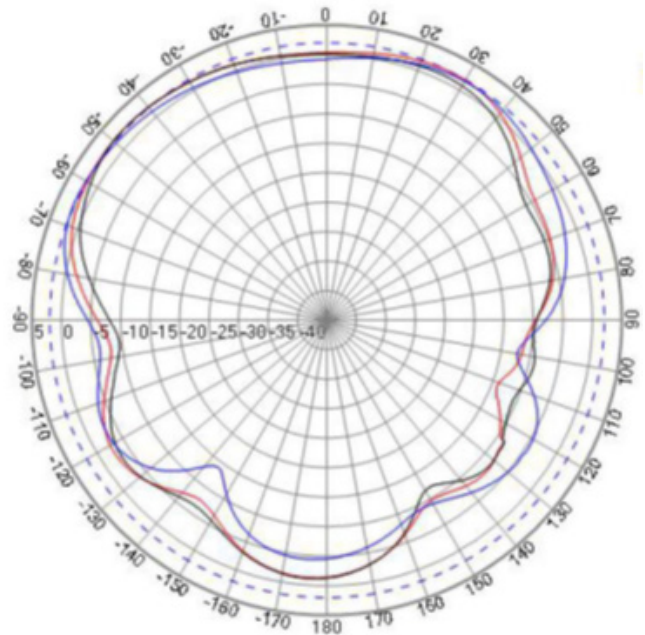
Radiation Pattern

2D Pattern

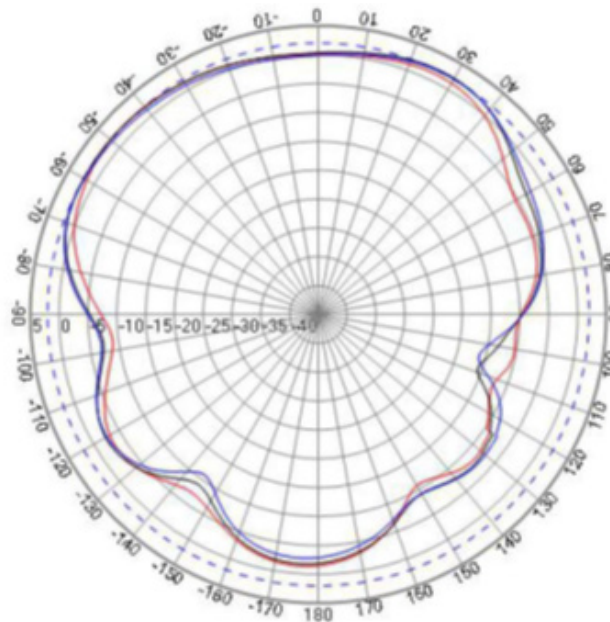
XY Plane



XZ Plane



YZ Plane



---- 1561 MHz
---- 1575 MHz
---- 1602 MHz

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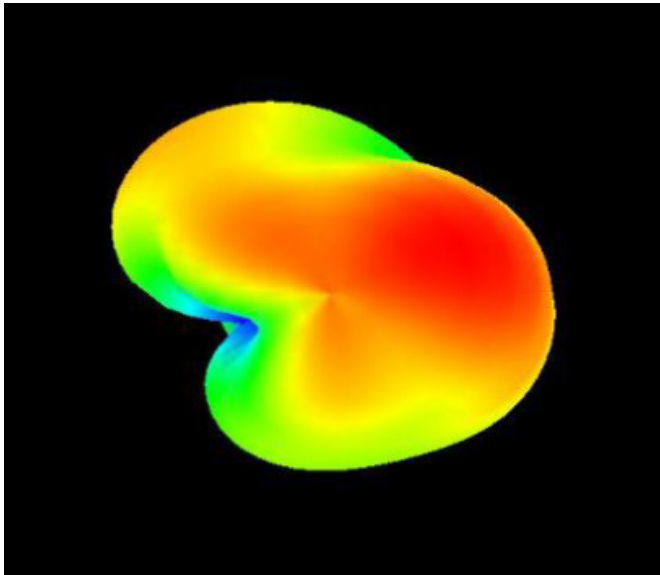


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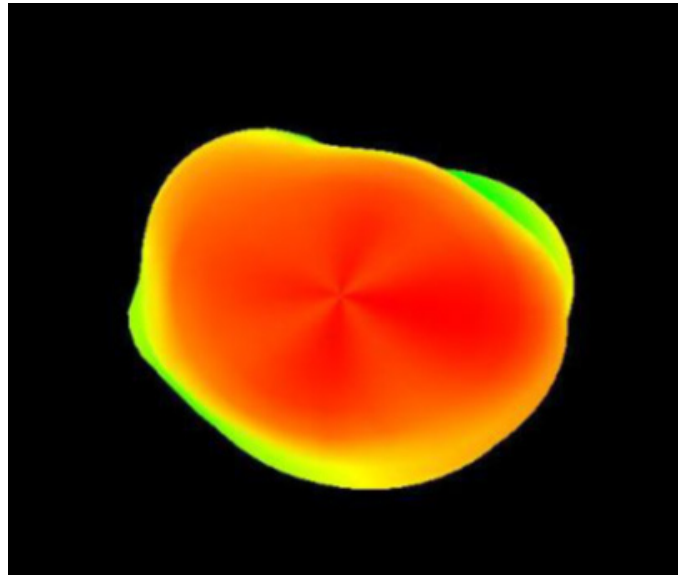
Radiation Pattern

3D Pattern

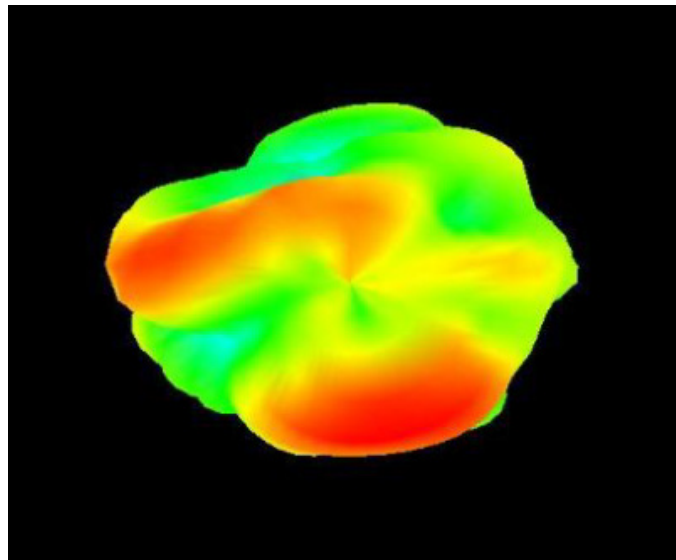
1561 MHz



1575 MHz



1602 MHz



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Packaging

A carton holds 50 pcs of antenna. Each carton is 38 x 38 x 19 cm and weighs 10 kg.

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