

LPWA/ISM External Antenna



AEACAD153029-S433



153.3 x Ø29.4 mm
RoHS/RoHS II Compliant
MSL = 1

Features

- LPWA/NB-IoT/ISM antenna
- Sub-GHz cellular band coverage
- Linear polarization
- Gain of 3 dBi
- Magnetic mounting

Applications

- LPWA/LoRa/SigFox/NB-IoT applications
- ISM applications
- IoT
- M2M
- Remote technology/monitoring
- Network devices
- Smart buildings
- Smart city
- Agriculture/environment
- Consumer tracking

Electrical Specifications

Parameters	Min.	Typ.	Max.	Units	Note
Frequency Range		433 ~ 960		MHz	
VSWR			4.5		
Polarization	Linear				
Impedance		50		Ω	
Gain		3		dBi	Zenith

Mechanical Characteristics

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

Environmental Characteristics

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

LPWA/ISM External Antenna

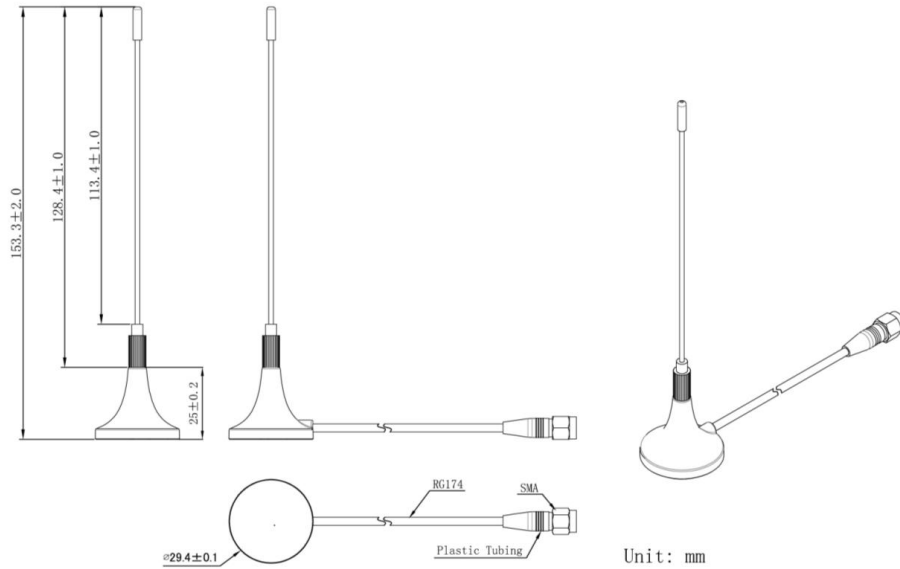


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Dimensions



Product Image



LPWA/ISM External Antenna

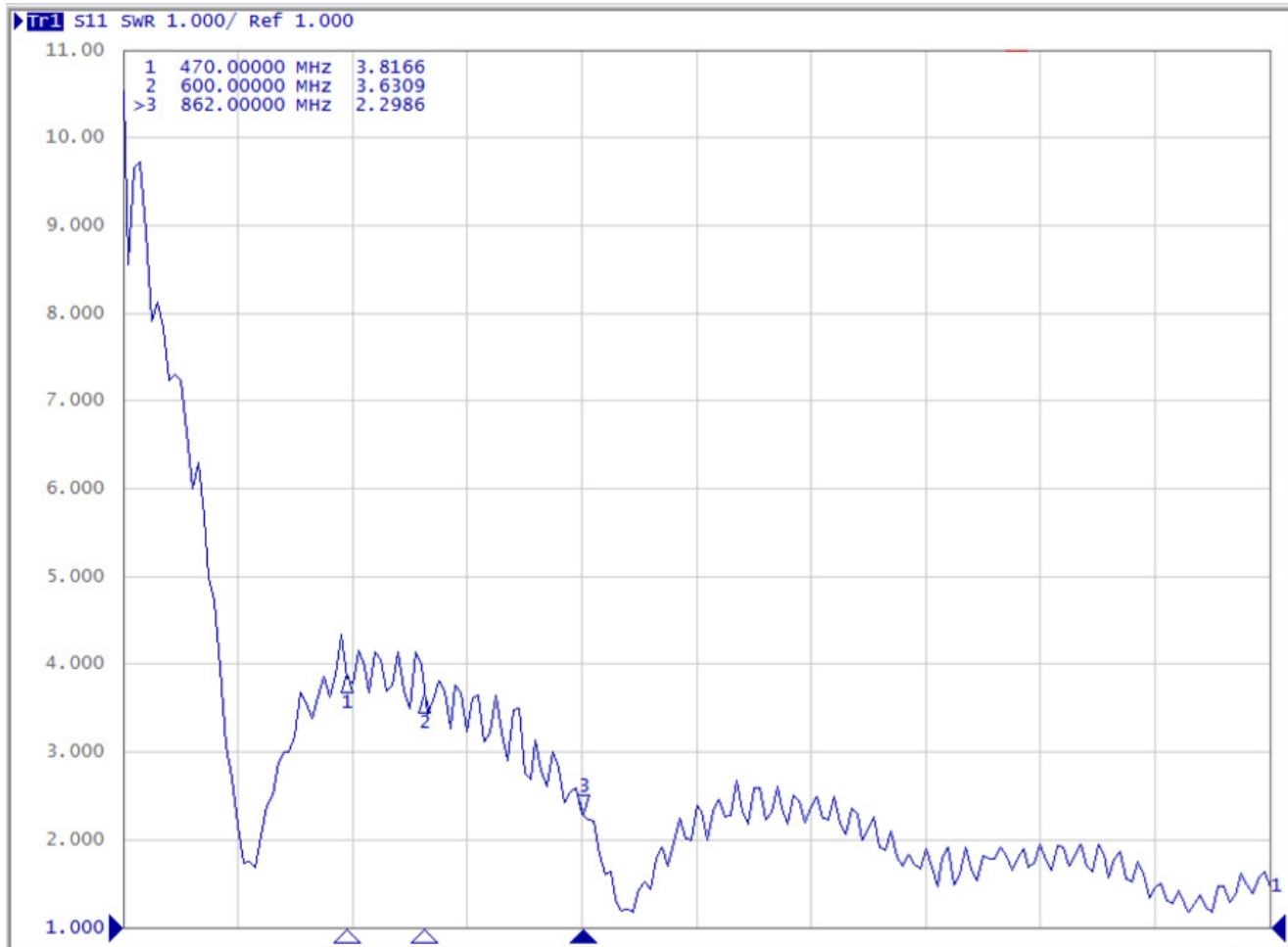


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VSWR



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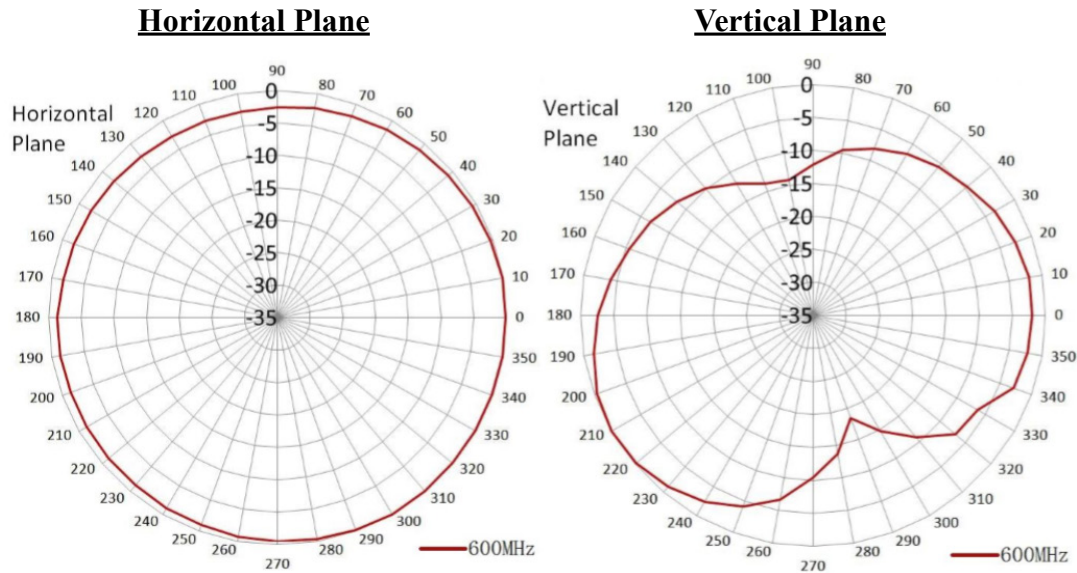
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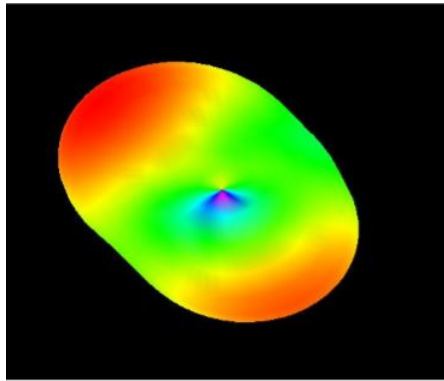
Radiation Pattern:

2D – Pattern

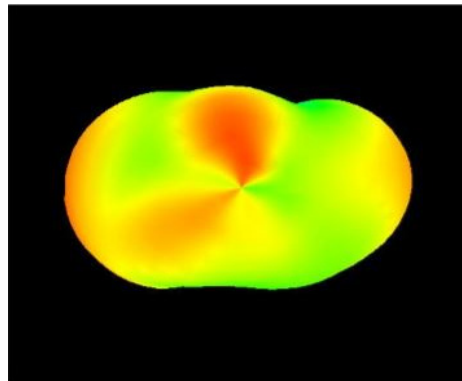


3D – Pattern

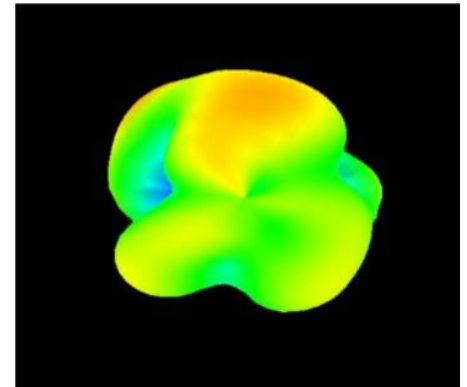
Frequency: 470 MHz



Frequency: 600 MHz



Frequency: 862 MHz



Frequency (MHz)	Efficiency	Gain (dBi)
470	0.37	1.19
600	0.38	1.8
862	0.45	3.12

Packaging

The carton weighs 13 kg and has 200 pieces in a dimension of 70 x 32 x 15.5 cm.



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