

# 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		$\Omega$	
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

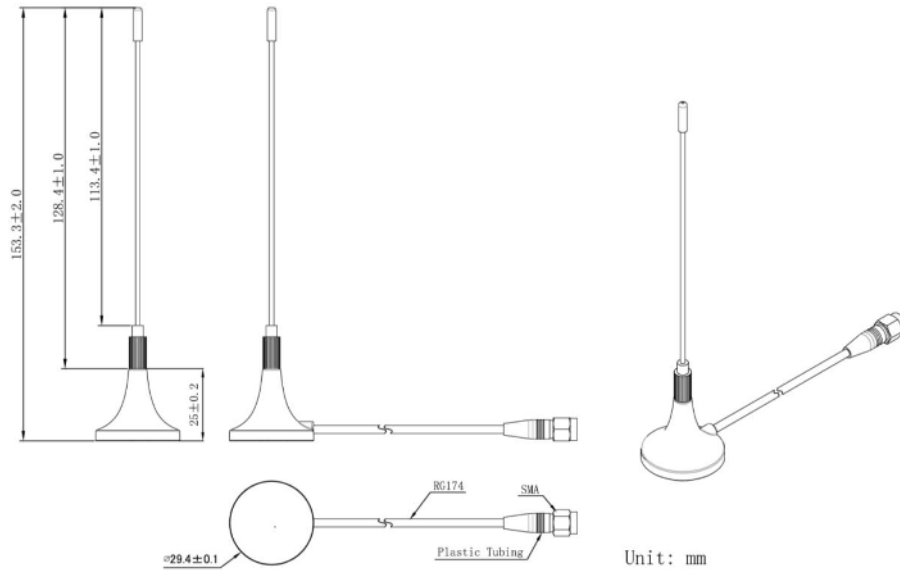


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## Dimensions



## Product Image



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## VSWR



**ATTENTION:** Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



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REVISED: 01.24.2019

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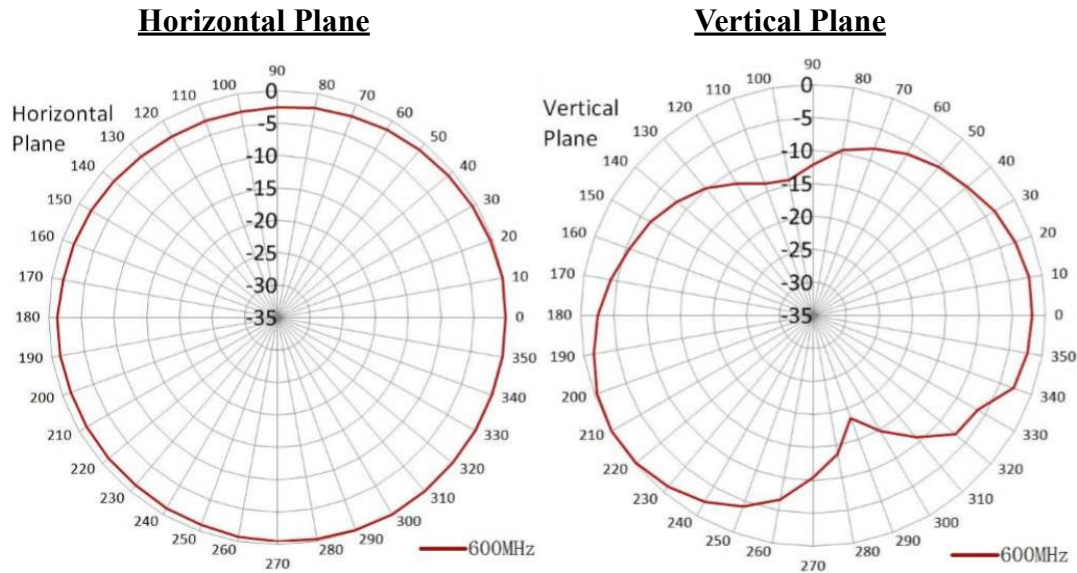
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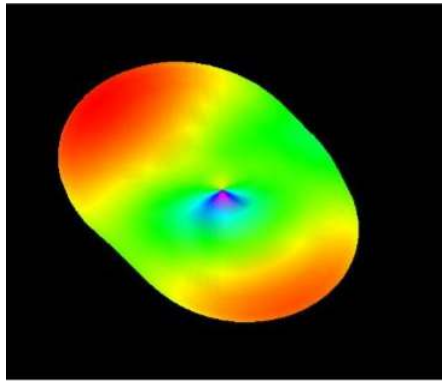
## Radiation Pattern:

### 2D – Pattern

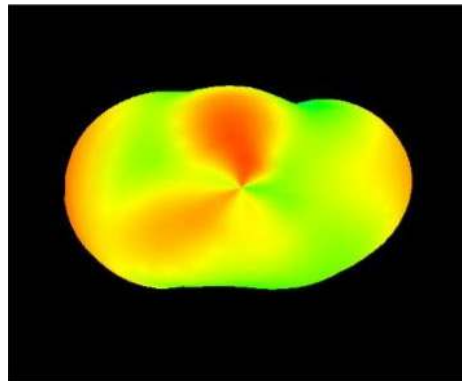


### 3D – Pattern

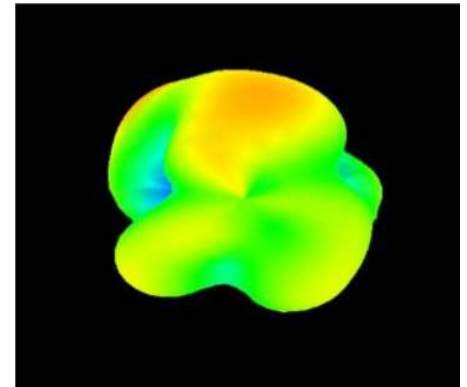
Frequency: 470 MHz



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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