

# 868MHz LORA/LPWA/ISM WHIP

AEACAQ190012-S868



190.0 x Ø12.9 mm  
RoHS/RoHS II Compliant

MSL = N/A: NOT APPLICABLE

## FEATURES

- Gain of 3.5dBi
- 10W input power
- Designed for 868 MHz
- $VSWR \leq 2.5$
- 190 x Ø12.9mm form factor

## APPLICATIONS

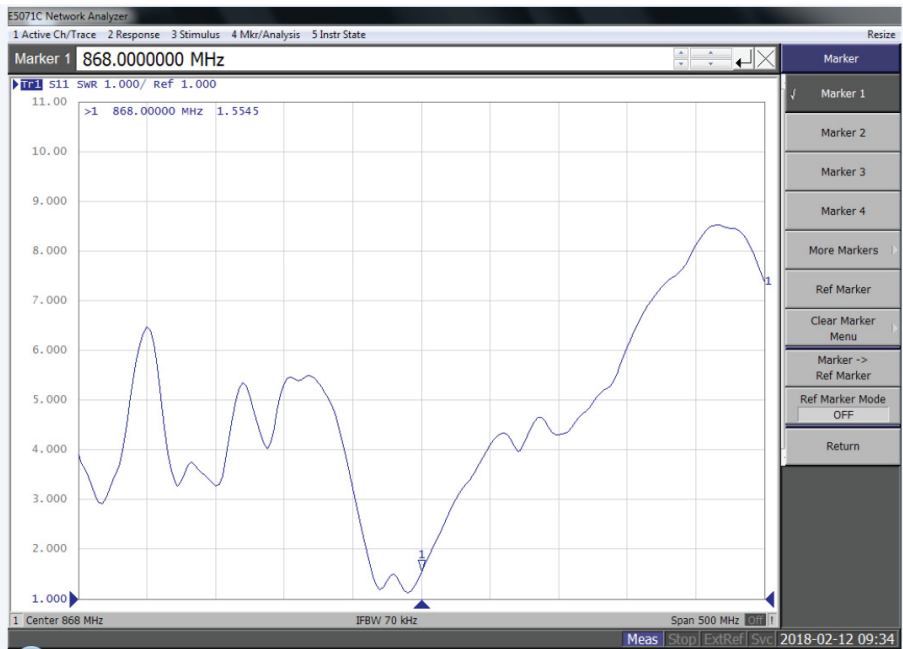
- LPWA
- LoRA
- Sigfox
- ISM Applications
- Remote Technology/Monitoring
- Network devices
- Smart buildings
- Smart cities
- M2M
- Agriculture / Environment
- Consumer tracking

## EXTERNAL ANTENNA

| Parameters            | Min.   | Typ.      | Max. | Units | Note |
|-----------------------|--------|-----------|------|-------|------|
| Frequency Range       |        | 868       |      | MHz   |      |
| Bandwidth             |        | CF ± 8MHz |      |       |      |
| VSWR                  |        |           | 2.5  |       |      |
| Polarization Model    | Linear |           |      |       |      |
| Impedance             |        | 50        |      | Ω     |      |
| Gain                  |        | 3.5       |      | dBi   |      |
| Operating Temperature | -40    |           | +85  | °C    |      |
| Input Power           |        |           | 10   | W     |      |

## RETURN - LOSS CHARACTERSTICS

### S11 Return-Loss



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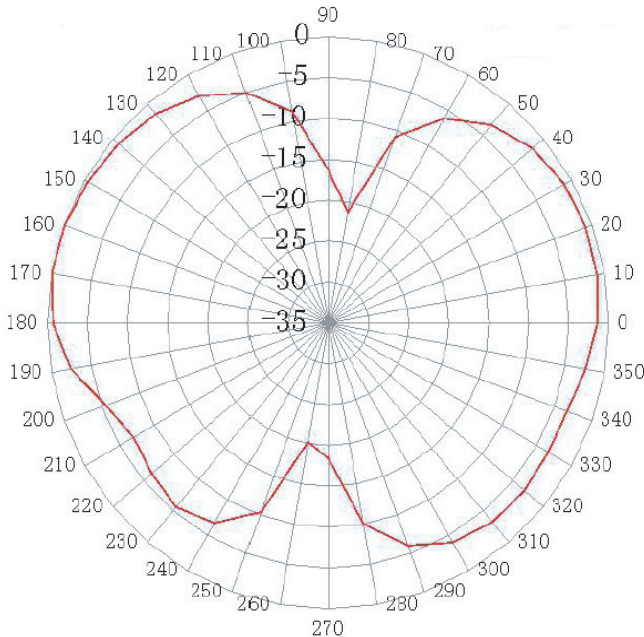
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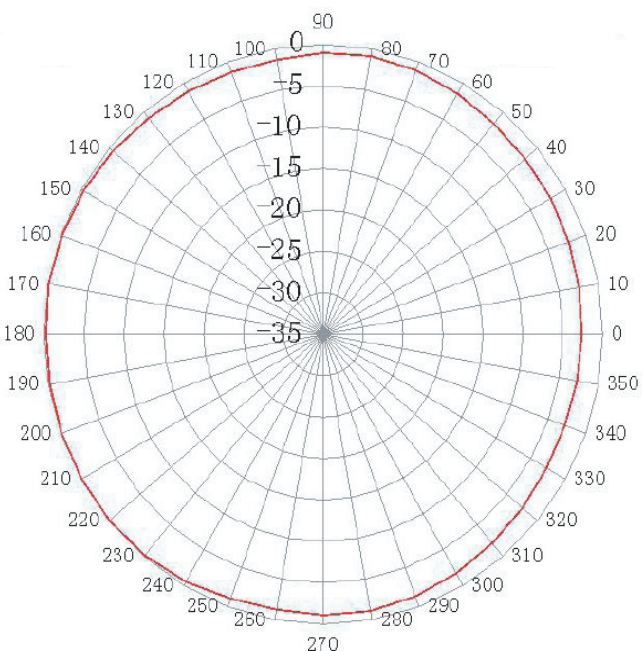
## RADIATION PATTERNS

### Antenna 2D Patterns

Vertical Plane

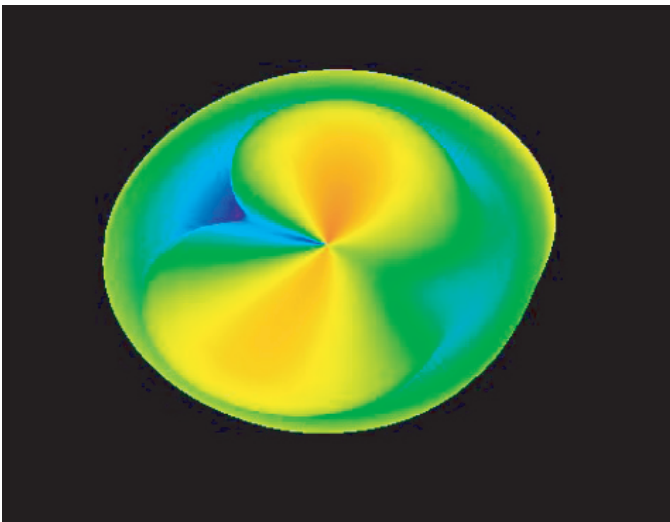


Horizontal Plane



### Antenna 3D Pattern

868 MHz



|                 |      |
|-----------------|------|
| Frequency (MHz) | 868  |
| Peak Gain (dBi) | 3.50 |
| Efficiency (%)  | 56   |

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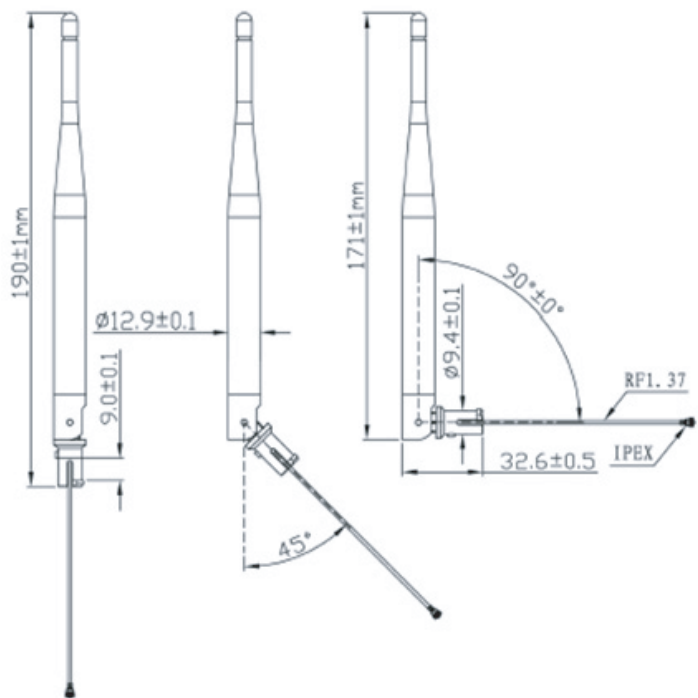
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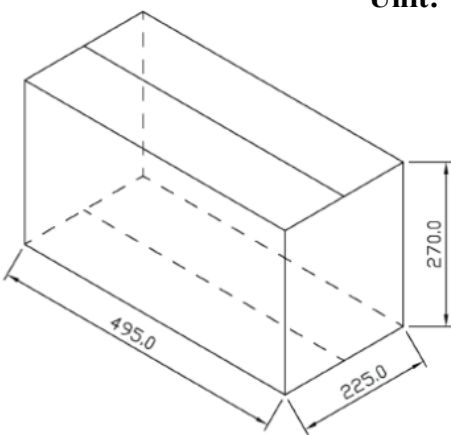
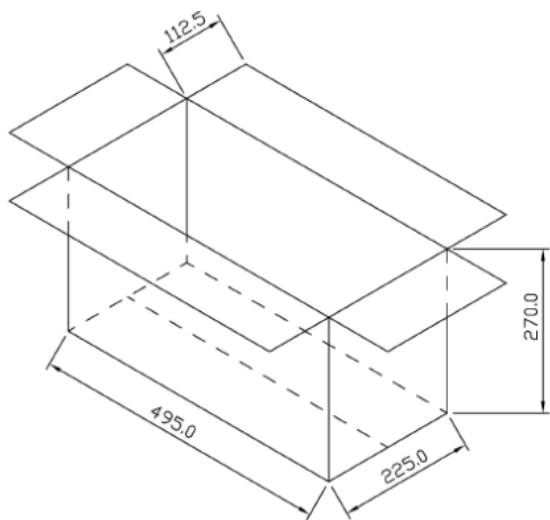
## DIMENSIONS



| Parameters    | Description            |
|---------------|------------------------|
| Cable Length  | 10.0 cm                |
| RF Cable      | RG178/RF1.37 or others |
| RF Connector  | IPEX or others         |
| Mounting Type | Knuckle                |

## PACKAGING:

Each 495 x 225 x 270 mm size carton includes 500 pcs antenna, 13kgs/carton.



Unit: mm



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For terms and conditions of sales, please visit:  
[www.abracon.com](http://www.abracon.com)

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ABRACON IS  
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