

# RFID Patch Antenna

**APAES915R6460C16-T**

RoHS/RoHS II compliant



62.5 x 62.5 x 6.0mm

MSL level: Not Applicable

## FEATURES:

- High Gain
- Pin type
- Customization Available
- RoHS Compliance

## TYPICAL APPLICATIONS:

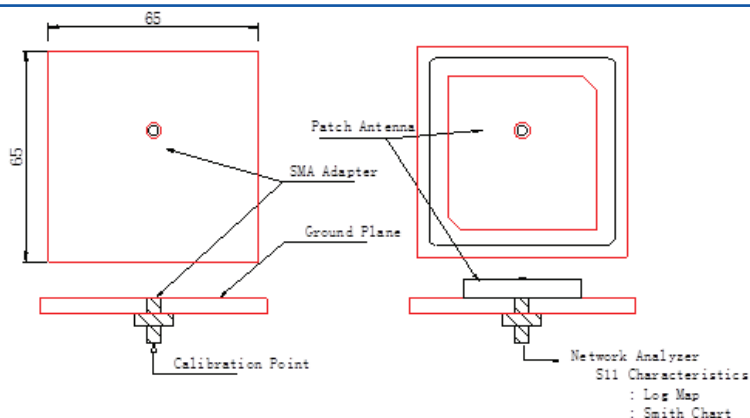
RFID systems for Logistic & Inventory Management of Retail, Pharmaceutical, Automotive Industries; Industrial automation, Contactless smart cards.

## STANDARD SPECIFICATIONS:

| Parameters                        | Min.  | Typ. | Max.  | Units    | Note                                               |
|-----------------------------------|-------|------|-------|----------|----------------------------------------------------|
| Receiving Frequency Range         | 902.0 |      | 928.0 | MHz      |                                                    |
| Center Frequency (*)              | 915   |      |       | MHz      | ( On a 65*65mm Ground Plane )                      |
| Bandwidth                         | 15    |      |       | MHz      | (Return loss $\leq 10$ dB)                         |
| Gain                              |       | 3.5  |       | dBic     | (Peak gain on 70*70mm Ground Plane facing Zenith.) |
| Axial Ratio                       |       |      | 3     | dB       |                                                    |
| VSWR @ Center Frequency           | 1.5   |      |       |          |                                                    |
| Polarization Model                | RHCP  |      |       |          | (Right Hand Circular Polarization)                 |
| Impedance                         | 50    |      |       | $\Omega$ |                                                    |
| Frequency Temperature Coefficient | -10   |      | 10    | ppm/°C   |                                                    |

(\*) Application environment, including size of the ground plane, proximity to adjacent components, etc., will affect stated performance. Fine tuning might be required when installed on end-customer's PCB. Abracon offers Antenna Optimization Service, please contact Abracon.

## TEST CONDITIONS & TEST SETUP:



## STRUCTURE AND MATERIAL

| Description       | Material             |
|-------------------|----------------------|
| Antenna Substrate | Dielectric Ceramics  |
| Pin               | Copper and tinplated |
| Electrode         | Ag Plated            |
| Ground Plane      | Ag Plated            |
| Adhesive Type     | 3M                   |

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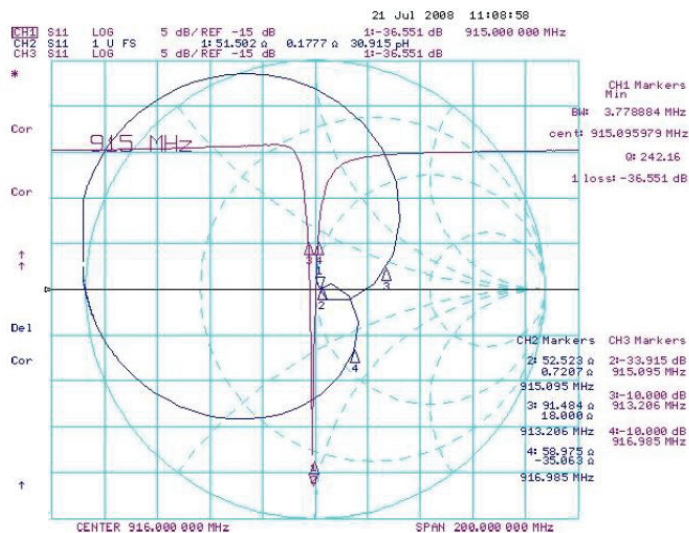
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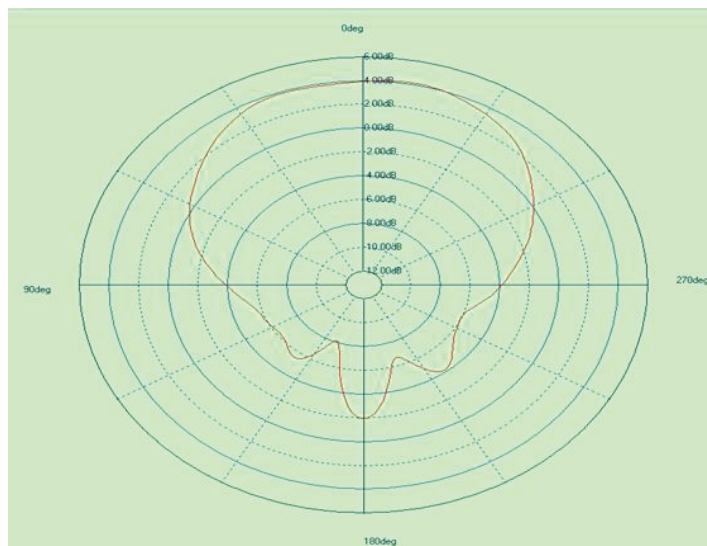


62.5 x 62.5 x 6.0mm

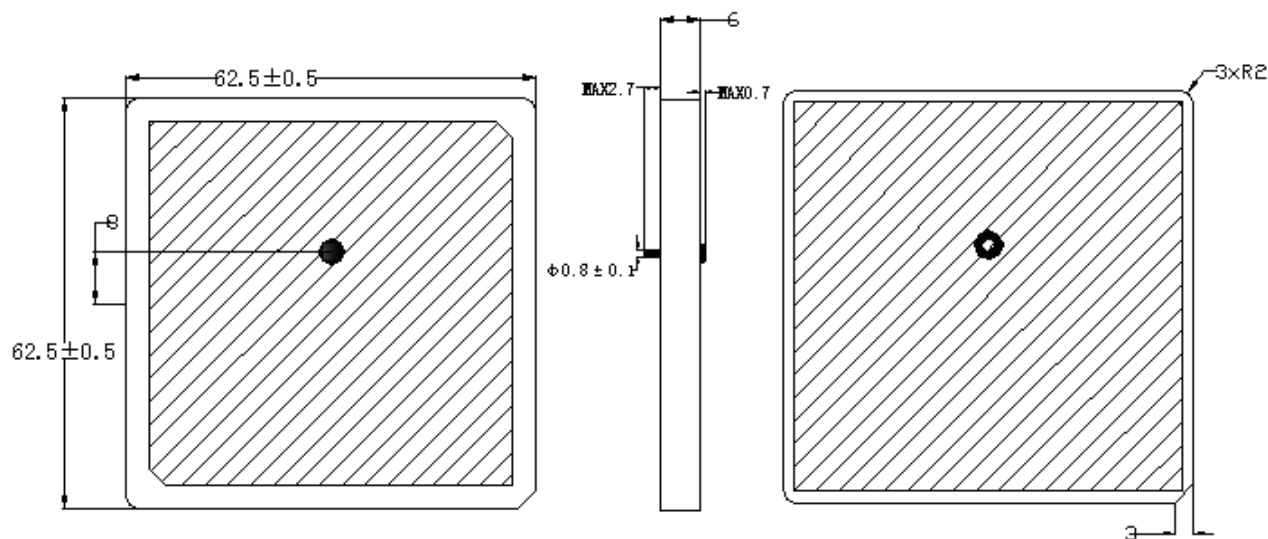
## SMITH CHART



## RADIATION PATTERN



## OUTLINE DIMENSION:



Other Tolerance:  $\pm 0.3\text{mm}$

Unit: mm

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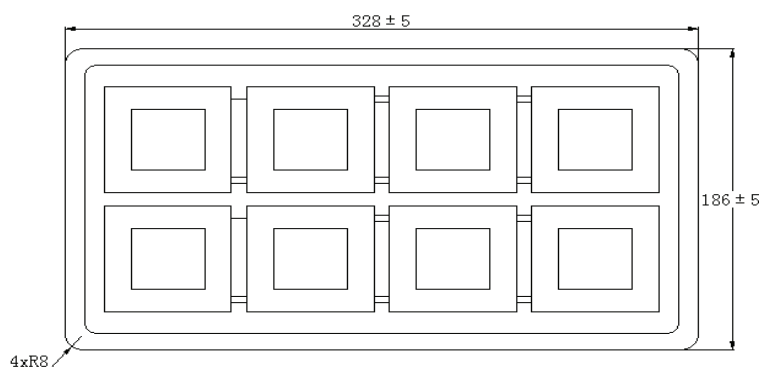
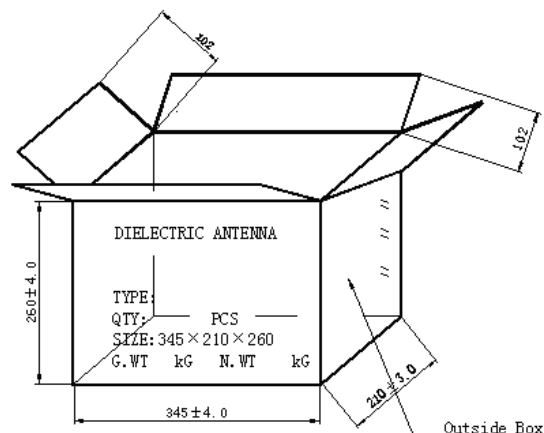
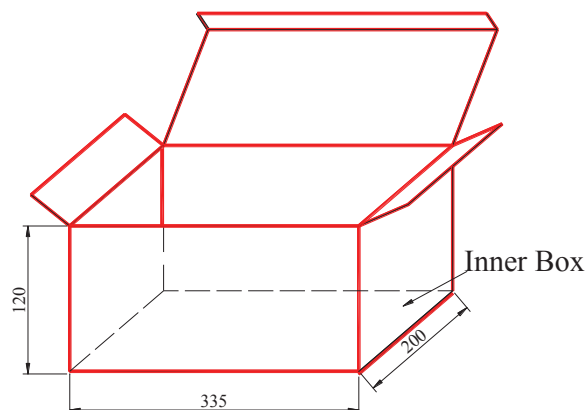
RoHS/RoHS II compliant



62.5 x 62.5 x 6.0mm

## PACKAGING:

| Package Type | Quantity    |
|--------------|-------------|
| Tray         | 8 pcs/tray  |
| Inner Box    | 80pcs/box   |
| Outer Box    | 160 pcs/box |



## CAUTION:

- (1) Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- (2) Do not expose the component to open flame.
- (3) This specification applies to the functionality of the component as a single unit. Please insure the component is thoroughly evaluated in the application circuit.

## NOTE:

- 1) The parts are manufactured in accordance with this specification. If other conditions and specifications which are required for this specification, please contact ABRACON for more information.
- 2) ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.
- 3) In no case shall ABRACON be liable for any product failure from in appropriate handling or operation of the item beyond the scope of this specification.
- 4) When changing your production process, please notify ABRACON immediately.
- 5) ABRACON Corporation'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-dependant 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 Corporation is required. Please contact ABRACON Corporation for more information.
- 6) All specifications and Marking will be subject to change without notice.

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ABRACON IS  
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CERTIFIED



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### Офис по работе с юридическими лицами:

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