



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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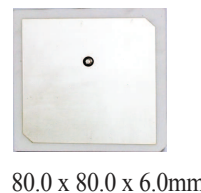
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



RFID Patch Antenna

APAES868R8060C16-T

RoHS/RoHS II compliant



80.0 x 80.0 x 6.0mm

MSL level: Not Applicable

FEATURES:

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

TYPICAL APPLICATIONS:

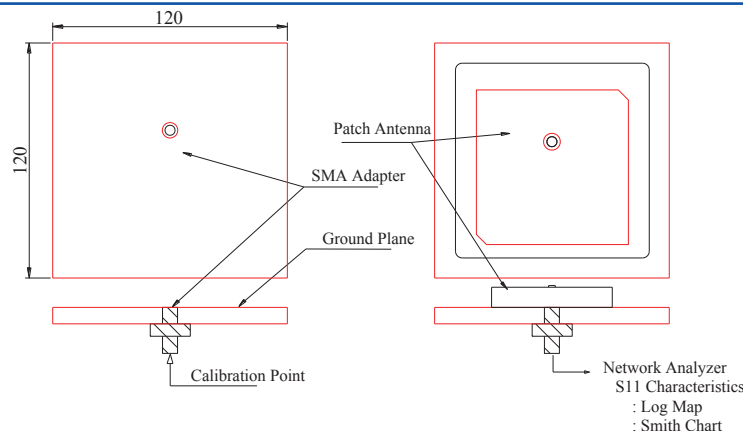
RFID systems for Logistic & Inventory Management of Retail, Pharmaceutical, Automotive Industries; Industrial automation, Contactless smart cards.

STANDARD SPECIFICATIONS:

| Parameters | Min. | Typ. | Max. | Units | Note |
|-----------------------------------|-------|------|-------|----------|--|
| Receiving Frequency Range | 854.0 | | 882.0 | MHz | |
| Center Frequency ^(*) | 868 | | | MHz | (On a 120*120mm Ground Plane) |
| Bandwidth | 20 | | | MHz | (Return loss ≤ 10 dB) |
| Gain | | 5.0 | | dBic | (Peak gain on 120*120mm Ground Plane facing Zenith.) |
| Axial Ratio | | | 3 | dB | |
| VSWR @ Center Frequency | 1.3 | | | | |
| Polarization Model | RHCP | | | | (Right Hand Circular Polarization) |
| Impedance | 50 | | | Ω | |
| 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 (55230) |

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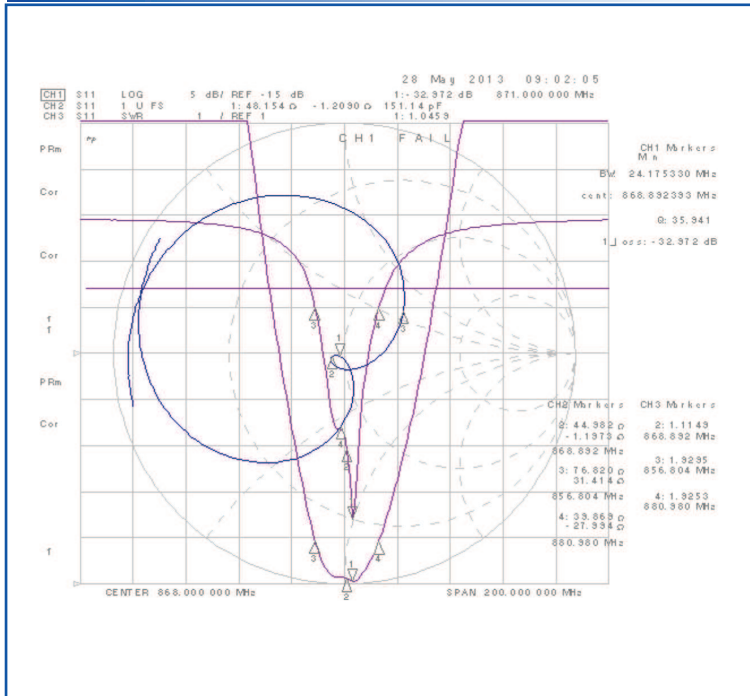
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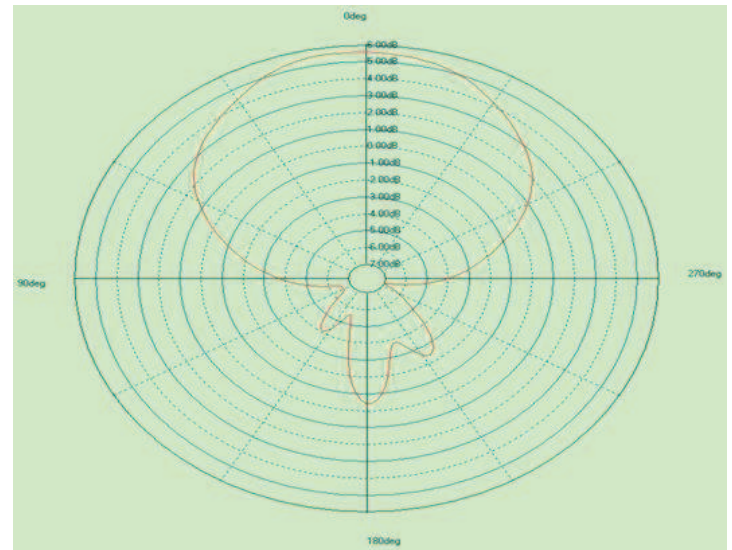


80.0 x 80.0 x 6.0mm

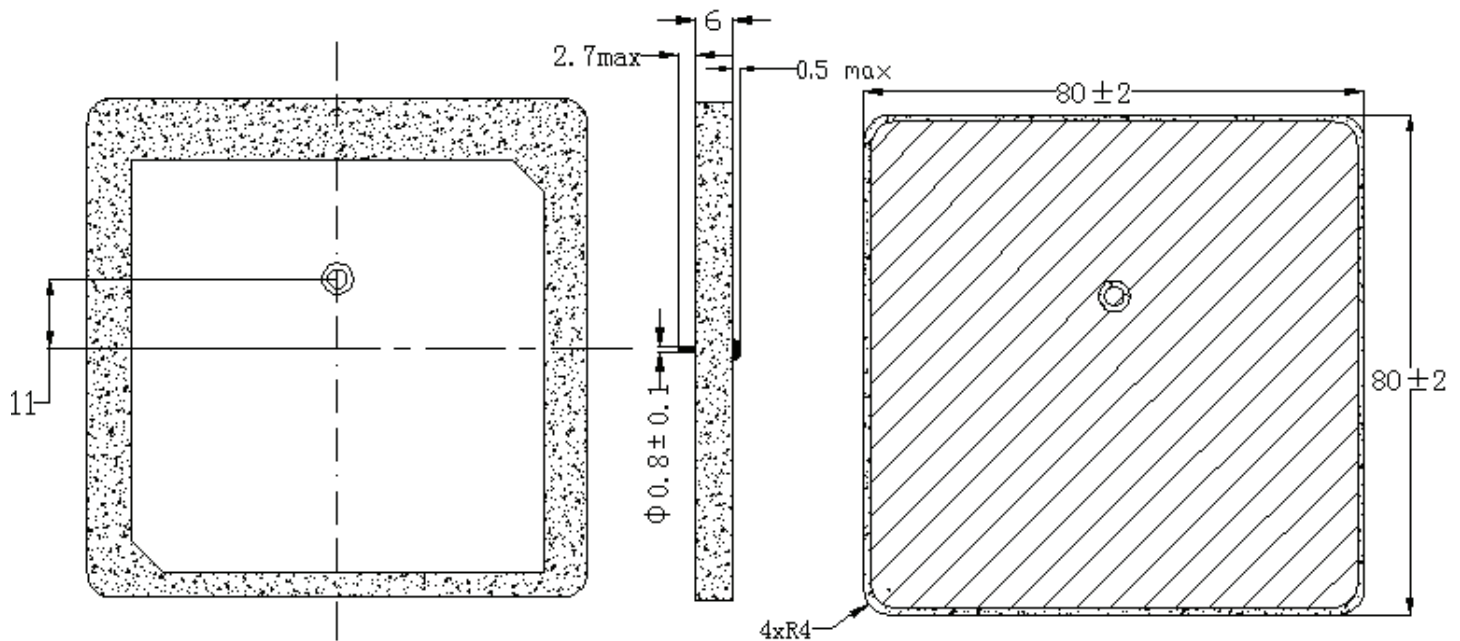
SMITH CHART



RADIATION PATTERN



OUTLINE DIMENSION:



Other Tolerance: ±0.5mm

Unit: mm

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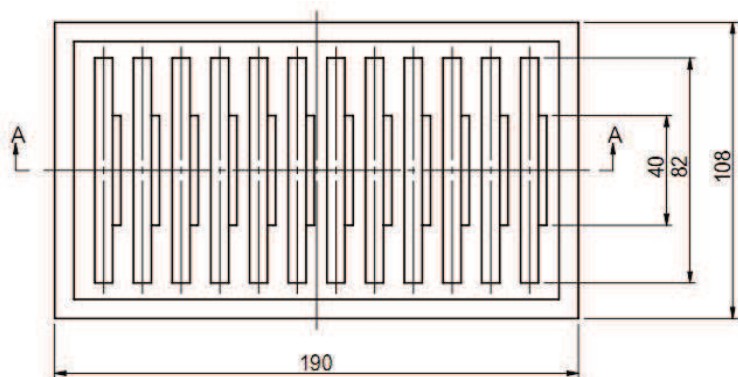
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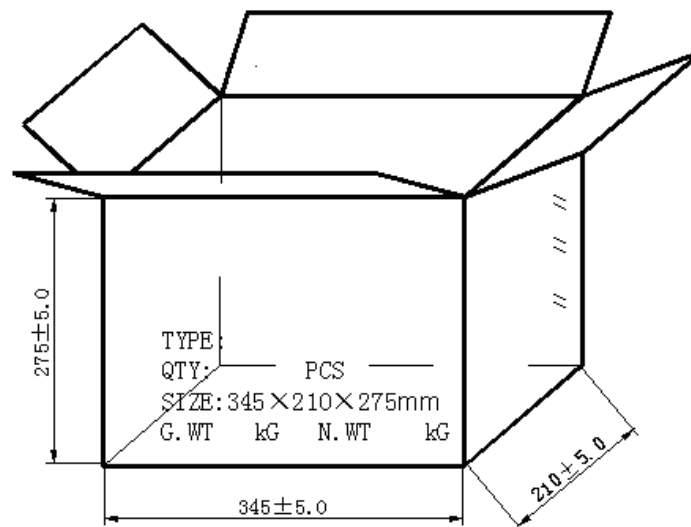
80.0 x 80.0 x 6.0mm

PACKAGING:

Each foam box contains 12pcs of RFID patch antenna. There are 3 foam boxes per inner box, and 2 inner boxes per carton (Outer box).



Foam Box



Outer Box

| Package Type | Quantity |
|--------------|------------------|
| Foam Box | 12 pcs/foam box |
| Inner Box | 36 pcs/inner box |
| Outer Box | 72 pcs/outer 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
ISO9001:2008
CERTIFIED



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