# RFID Reader (Passive)

20.5 x 20.5 x 7.8mm

## ARRCN5-868.000MHz

RoHS/RoHS II Compliant

**MSL level: Not Applicable**

## FEATURES:

- High Gain
- Easy to install
- RF Cable and Connector
- RoHS Compliant

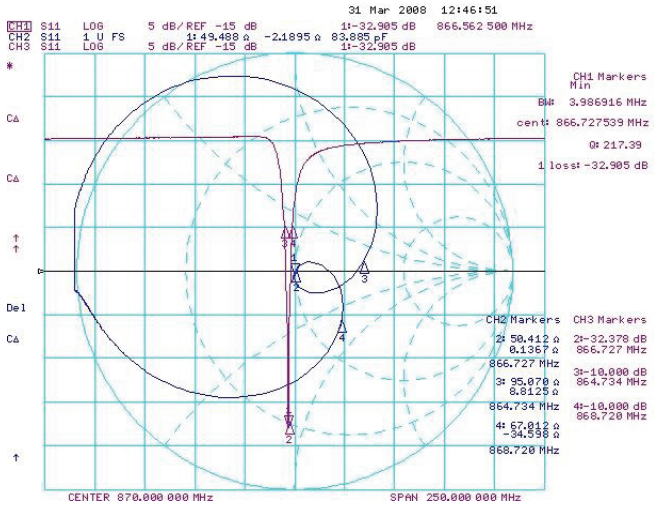
## TYPICAL APPLICATIONS:

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

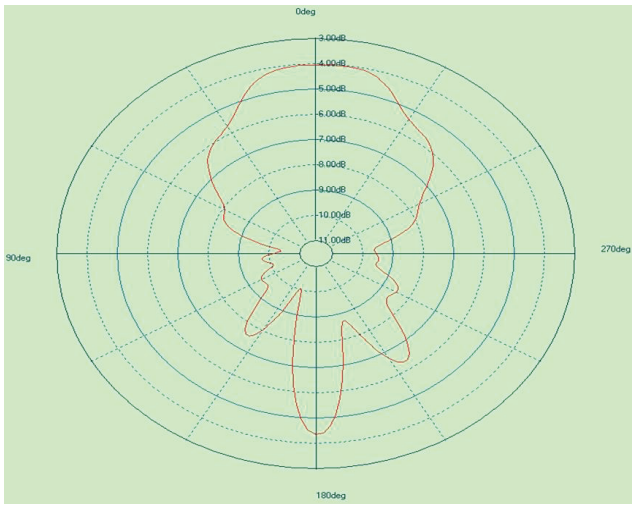
## STANDARD SPECIFICATIONS:

| Parameters | Min. | Typ. | Max. | Units | Note |
|---|---|---|---|---|---|
| Center Frequency | | 868±3 | | MHz | |
| V.S.W.R | | 1.5 | | | |
| Bandwidth | 2.0 | | | MHz | V.S.W.R<1.5 |
| Impendence | | 50 | | Ω | |
| Gain | | -5.0 | | dBi | Based on 70×70mm ground plane |
| Polarization | | RHCP | | | |
| Working Temperature | -40 | | +80 | ˚C | |
| Storage Temperature | -45 | | +85 | ˚C | |

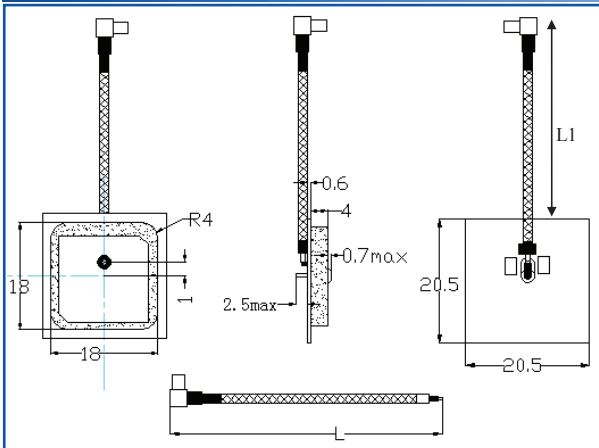
## SMITH CHART:




## RADIATION PATTERN




## OUTLINE DRAWING:




**Unit: mm**

**Other Tolerance: ±0.2mm**

| Description | Material |
|---|---|
| Antenna Type | Dielectric 18x18x4mm Ceramics |
| PCB | FR4, 20.5mm |
| RF Cable | RG178, Ø2.7±0.3mm , L1=100± 5mm, L=110± 5mm |
| RF Connector | MMCX-JW3 |
| Thickness | 7.8mm Max |



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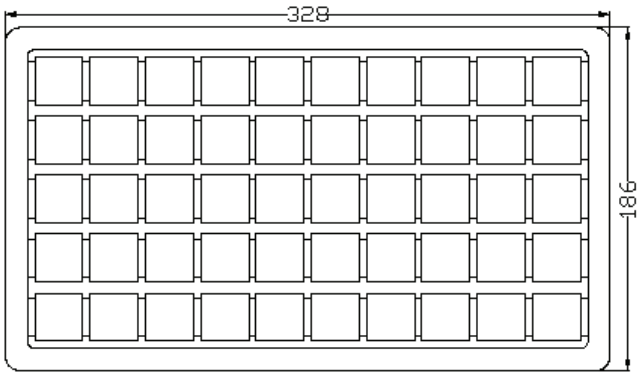
**ARRCN5-868.000MHz**

20.5 x 20.5 x 7.8mm

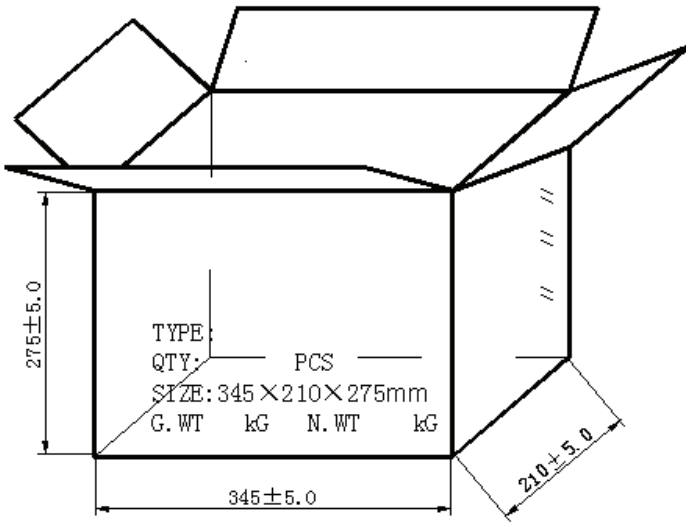
**RoHS/RoHS II Compliant**

## TAPE & REEL:

Each tray contains 50pcs of RFID Reader. There are 5 trays per vacuum bag, and 4 vacuum bags per carton (outer box). The size of each carton is 345*210*275mm.




**Tray**




**Outer Box**

| Package Type | Quantity |
|---|---|
| Tray | 50 pcs/tray |
| Vacuum Bag | 200pcs/vacuum bag |
| Outer Box | 1000 pcs/outer box |

**Unit: mm**

## 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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http://moschip.ru/get-element

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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**Офис по работе с юридическими лицами:**

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