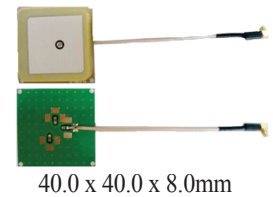


# RFID Reader (Passive)

**ARRRN5-868.000MHz**

**RoHS/RoHS II Compliant**  
**MSL level: Not Applicable**



40.0 x 40.0 x 8.0mm

## FEATURES:

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

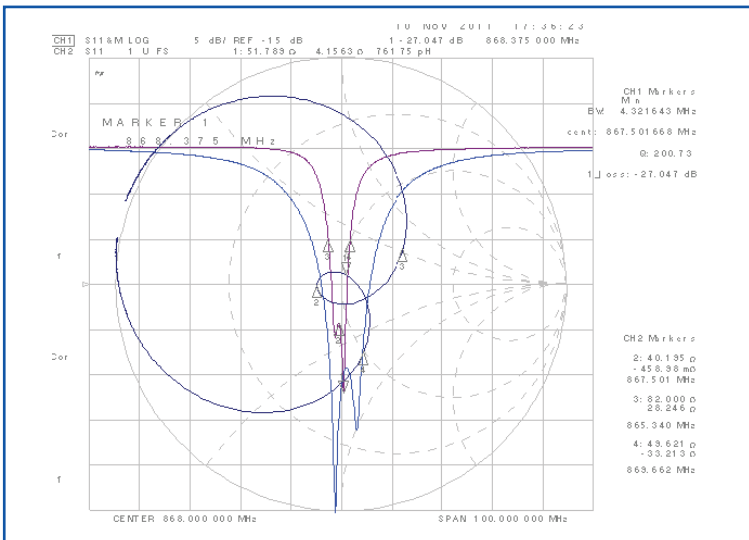
## TYPICAL APPLICATIONS:

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

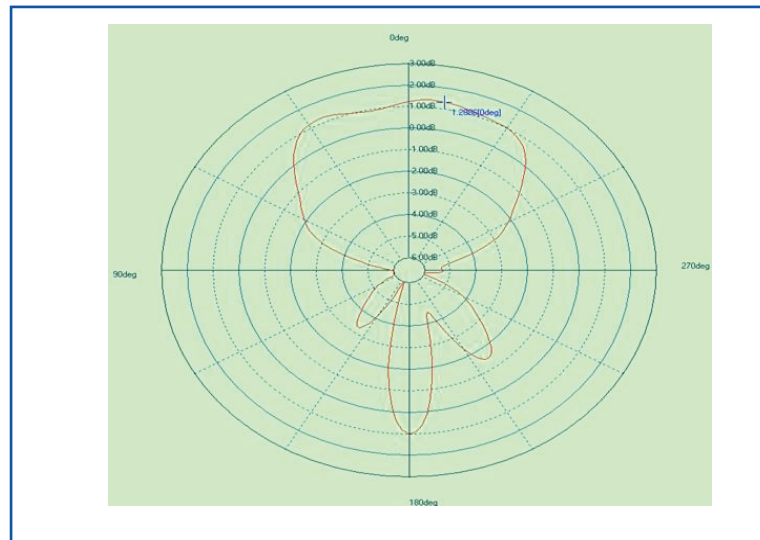
## STANDARD SPECIFICATIONS:

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency		868±3		MHz	
V.S.W.R		1.5			
Bandwidth	4.0			MHz	V.S.W.R<1.5
Impedence		50		Ω	
Gain		1.5		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:

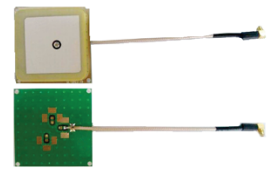
**Unit: mm**

Description	Material
Antenna Type	Dielectric 36x36x4mm Ceramics
PCB	FR4, 40mm
RF Cable	RG178, Ø2.7±0.3mm , L1=96 ± 5mm, L=110± 5mm
RF Connector	MMCX-JW3
Thickness	8mm Max

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ARRRN5-868.000MHz

RoHS/RoHS II Compliant



40.0 x 40.0 x 8.0mm

## TAPE & REEL:

Each tray contains 25pcs of RFID Reader. There are 5 trays per vacuum bag, and 4 vacuum bags per carton (outer box)

Package Type	Quantity
Tray	25 pcs/tray
Vacuum Bag	125pcs/vacuum bag
Outer Box	500 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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