# **RFID Patch Antenna**

# APAES915R80C16-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:

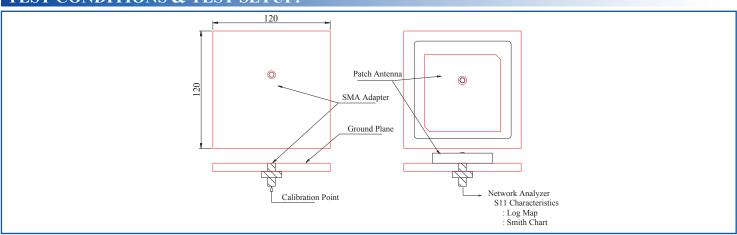
RFID systems for Logistic & Inventory Management of Retail, Pharmaceutical, Automotive Industries; Industrial automation, Contactless smart cards.

## **STANDARD SPECIFICATIONS:**

Parameters	Min.	Тур.	Ma	ax.	Units	Note
Receiving Frequency Range	902.0		928	8.0	MHz	
Center Frequency (*)		915			MHz	(On a120*120mm Ground Plane)
Bandwidth	20				MHz	(Return loss ≤-10dB)
S11@ Center Frequency			-2	20	dB	
Gain		5.0			dBic	(Peak gain on 120*120mm Ground Plane facing Zenith.)
Axial Ratio			3	3	dB	
VSWR @ Center Frequency	1.3					
Polarization Model		RHCP				(Right Hand Circular Polarization)
Impedance		50			Ω	
Frequency Temperature Coefficient	-10			10	ppm/°C	

<sup>(\*)</sup> 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	NITTO 5000NS		



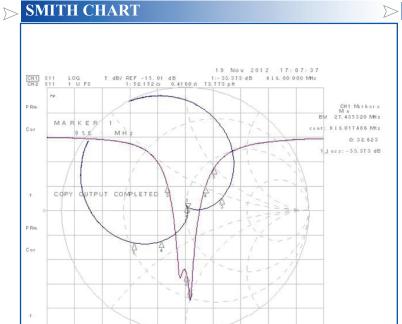


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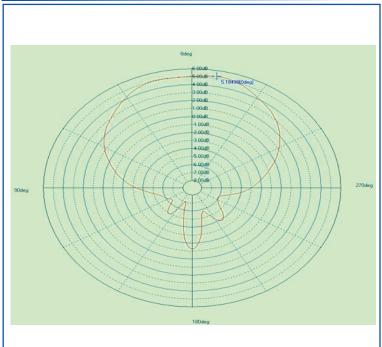
**RoHS/RoHS II compliant** 





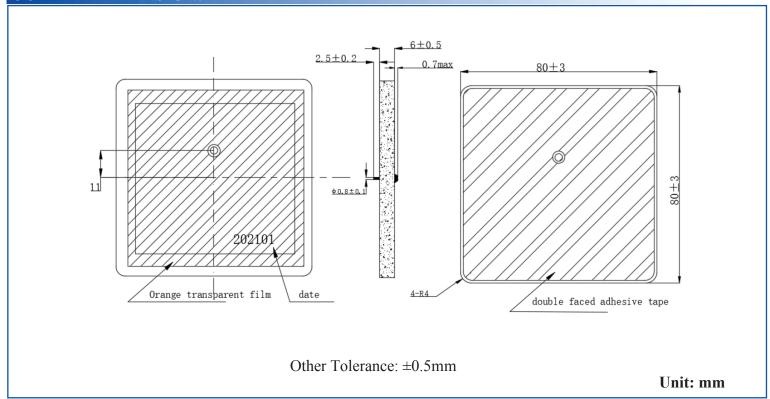
SPAN 200.000 000 MHz

## RADIATION PATTERN



# **OUTLINE DIMENSION:**

CENTER 9 1 5. 00 0 00 0 MHz







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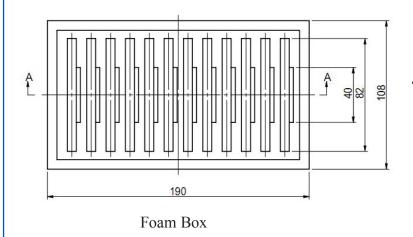
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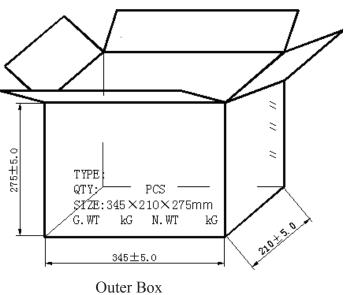


## **PACKAGING:**

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).



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 specifica-
- 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. 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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