# APAES868R8060C16-T

### **MSL level: Not Applicable**

- **FEATURES:**
- High Gain
- Pin type

 $\triangleright$ 

 $\triangleright$ 

- Customization Available
- RoHS Compliance

### **RoHS/RoHS II compliant**

80.0 x 80.0 x 6.0mm

0

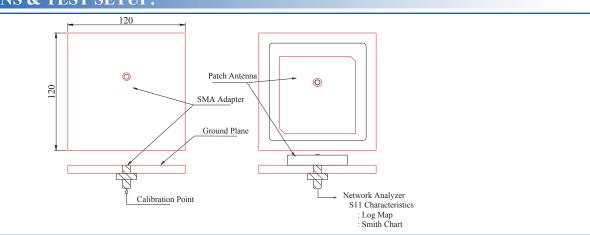
#### **TYPICAL APPLICATIONS:**

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

STANDARD SPECIFICATIONS:						
Parameters	Min.	Тур.	I	Max.	Units	Note
Receiving Frequency Range	854.0		8	382.0	MHz	
Center Frequency <sup>(*)</sup>		868			MHz	(On a 120*120mm Ground Plane)
Bandwidth	20				MHz	(Return loss ≤-10dB)
Gain		5.3			dBi	(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	NITTO 5000NS			

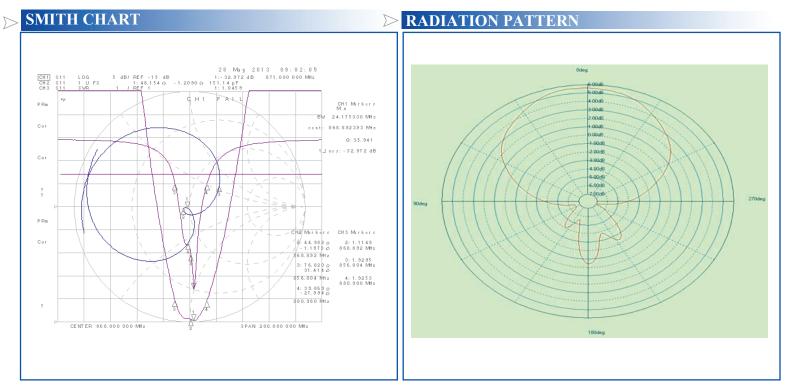


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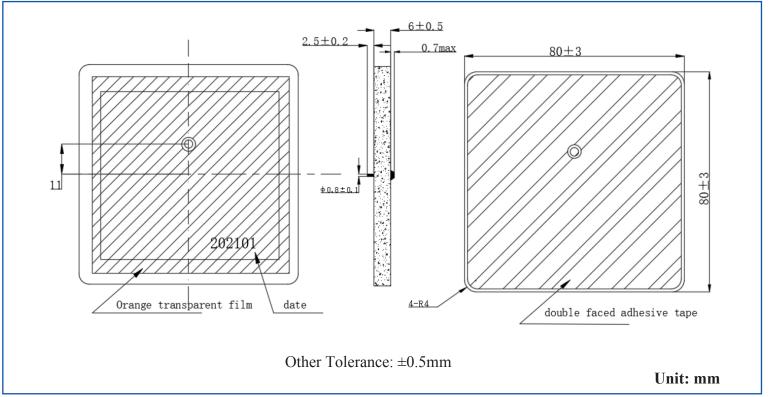
### **RoHS/RoHS II compliant**

#### 80.0 x 80.0 x 6.0mm

0



## **OUTLINE DIMENSION:**





# **RFID Patch Antenna**

# APAES868R8060C16-T

80.0 x 80.0 x 6.0mm

0

### **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). 08  $\geq$ 2 0 275±5. TYPE 190 ΩΤΥ PCS STZE: 345 × 210 × 275mm G.WT kG N.WT Foam Box kG 210-5  $345 \pm 5.0$ Package Type **Quantity** Outer Box Foam Box 12 pcs/foam box 36 pcs/inner box 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.
- ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.
   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 ISO9001-2015 CERTIFIED



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