915MHz; 25 x 25 x 4mm RFID(USA) Patch Antenna

APAE915R2540ABDB1-T

RoHS/RoHS II Compliant



25.0 x 25.0 x 4.0mm

MSL level: Not Applicable

FEATURES:

- Compact size
- RoHS Compliance

TYPICAL APPLICATIONS:

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

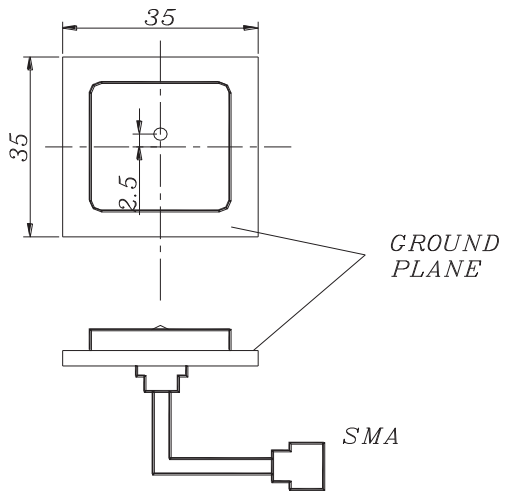
STANDARD SPECIFICATIONS:

Parameters	Min.	Typ.	Max.	Units	Note
Nominal Frequency		915.0		MHz	
Center Frequency @ -10dB bandwidth(*)		927.5±3.0		MHz	(without tape on 35×35mm ground plane.)
Real part at CF		30±15		Ω	(Peak gain on standardized Ground Plane)
Imaginary part at CF		-5± 15		Ω	
Polarization Model		RHCP			(Right Hand Circular Polarization)
Impedance		50		Ω	
Frequency Temperature Coefficient			20	ppm/℃	

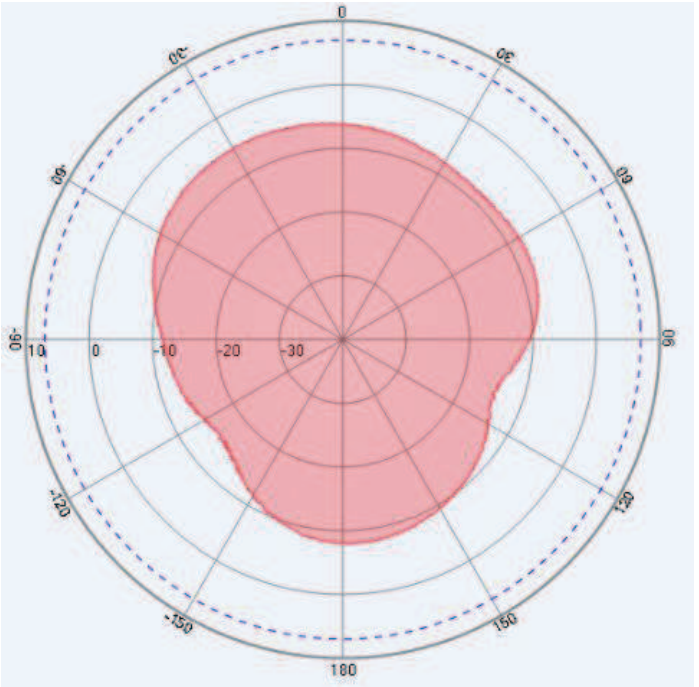
(*)Application environment, including size of ground plane will affect stated performance. Fine tuning might be required when installed on customer's PCB.

TEST CONDITIONS & TEST SETUP:

Parts shall be measured under a condition (Temp.: 20±15°C, Humidity: 65±20% R.H.)



RADIATION PATTERN



Measured at 927MHz

2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 08.03.15**
Ph. 949.546.8000 | Fax. 949.546.8001
Visit www.abracon.com for Terms and Conditions of Sale

915MHz; 25 x 25 x 4mm RFID(USA) Patch Antenna

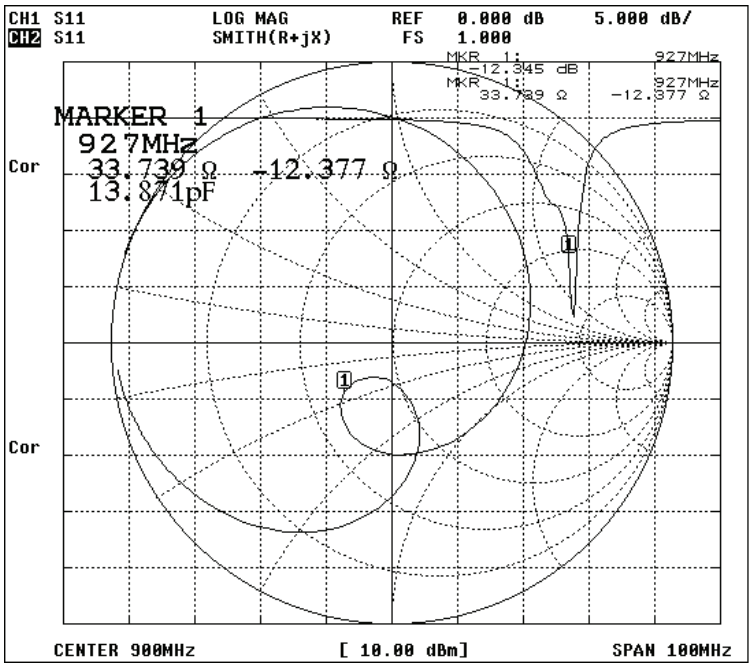
APAE915R2540ABDB1-T

RoHS/RoHS II Compliant

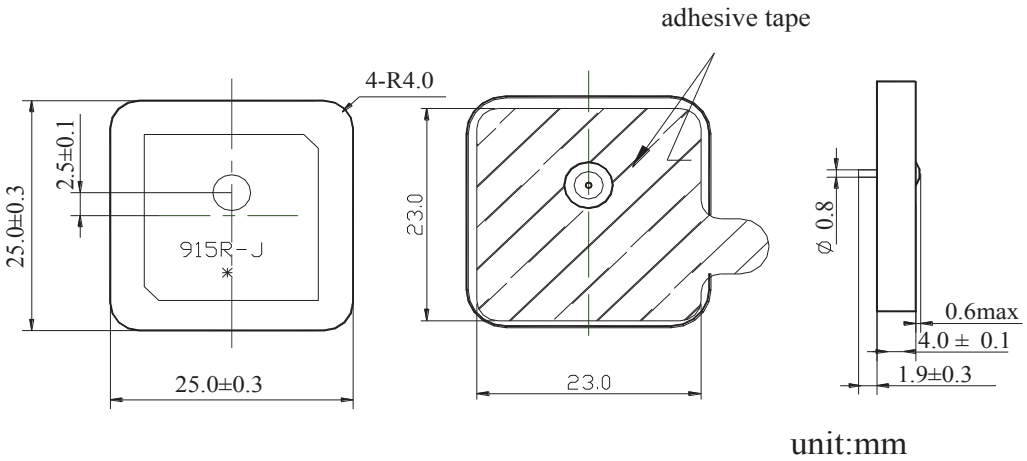


25.0 x 25.0 x 4.0mm

IMPEDANCE CHARACTERISTICS



OUTLINE DRAWING:



unit:mm

2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 08.03.15**
Ph. 949.546.8000 | Fax. 949.546.8001
Visit www.abracon.com for Terms and Conditions of Sale

915MHz; 25 x 25 x 4mm RFID(USA) Patch Antenna

APAE915R2540ABDB1-T

RoHS/RoHS II Compliant

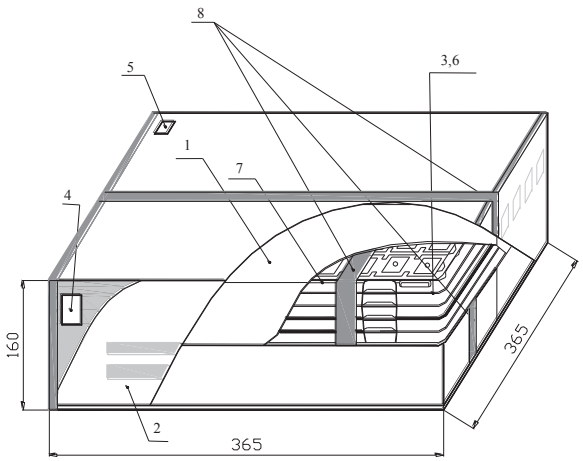


25.0 x 25.0 x 4.0mm

PACKAGING:

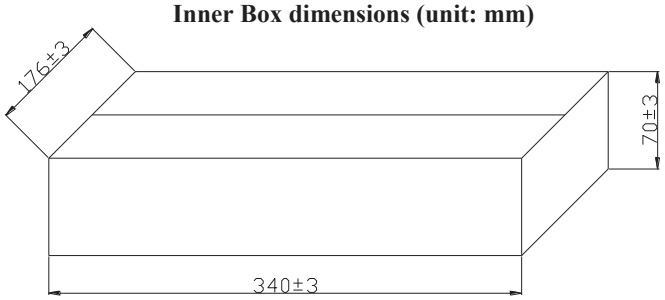
"T" is for a vacuum sealed tray containing 50 units.
1000 pieces is the suggested quantity containing 20-trays with 50-pcs per Tray.

NOTE: This product is vacuum packaged to reduce the possibility of oxidation and/or contamination during storage.



NO.	Name
1	Inner Box
2	Package
3	Vacuum Bag
4	Certificate of approval
5	Label
6	Cushion
7	Tray
8	Adhesive tape

Inner Box dimensions (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.

ATTENTION: 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.

2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 08.03.15**
Ph. 949.546.8000 | Fax. 949.546.8001
Visit www.abracon.com for Terms and Conditions of Sale