# 1575.42MHZ; 15x15x4mm GPS Patch Antenna

# APAE1575R1540AZDB2F-T

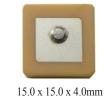
## MSL level: Not Applicable

#### **FEATURES:**

- High Gain
- Compact Size and Low Profile
- Pin type
- Customization Available
- RoHS Compliance

>

## **STANDARD SPECIFICATIONS:**



This product is RoHS compliant Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7)).

### **TYPICAL APPLICATIONS:**

**RADIATION PATTERN** 

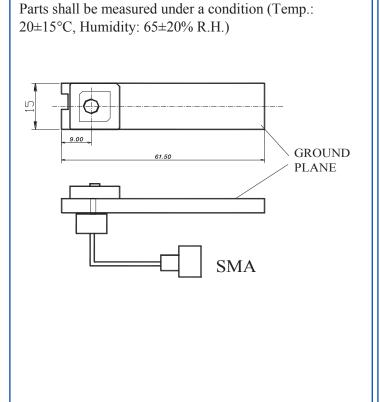
Automotive navigation, Marine buoys, Surveying equipment, Cell phone, Laptop, Healthcare and medical monitoring devices, PND, PDA

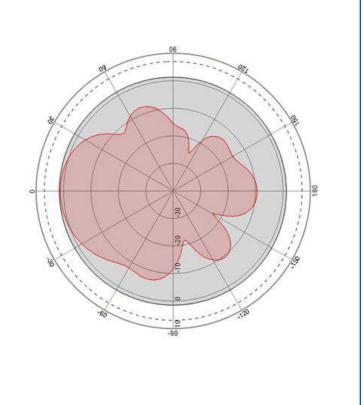
**RoHS** Compliant

STANDARD SI POITICATIONS.						
Parameters	Min.	Typ.	Max.	Units	Note	
Receiving Frequency Range	1575.42±1.023		MHz			
Center Frequency @ -10dB bandwidth <sup>(*)</sup>	1577.0±5.0		MHz	(with tape on the 15mm x 61.5mm ground plane)		
-10dB Bandwidth	5.0			MHz		
Gain (Zenith 90°)		1.2		dBic	(Peak gain on standardized Ground Plane.)	
Return Loss at Center Frequency	-15			dB		
VSWR@ center Frequency			1.5			
Polarization Model	RHCP				(Right Hand Circular Polarization)	
Impedance	50		Ω			
Frequency Temperature Coefficient			20	ppm/°C		

(\*) 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:**







Visitwww.abracon.com forTerms & Conditions of Sale **Revised 01.31.14** 30332Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

# 1575.42MHZ; 15x15x4mm GPS Patch Antenna



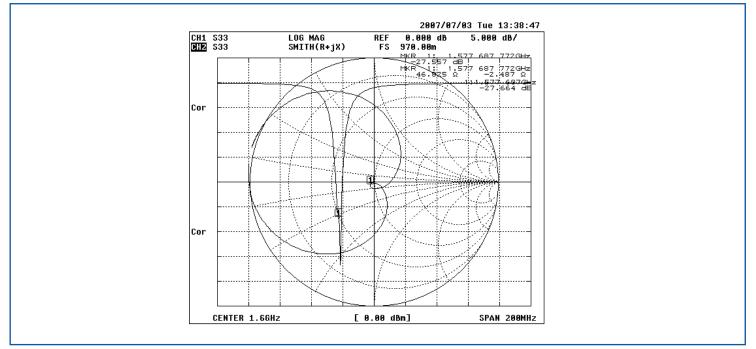


15.0 x 15.0 x 4.0mm

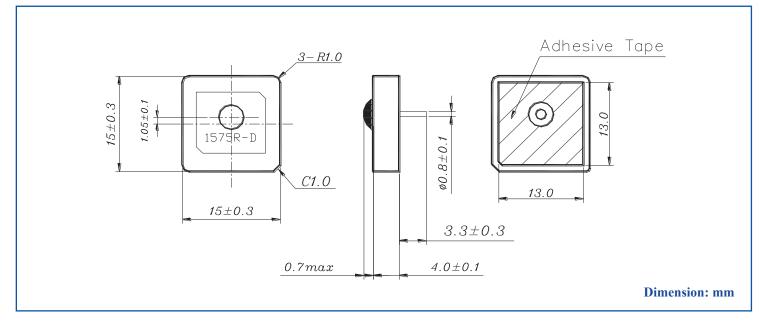
This product is RoHS compliant Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7)).

## **IMPEDANCE CHARACTERISTICS**

APAE1575R1540AZDB2F-T



# **OUTLINE DRAWING:**





Visitwww.abracon.com forTerms & Conditions of Sale **Revised 01.31.14** 30332Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

# 1575.42MHZ; 15x15x4mm GPS Patch Antenna

# APAE1575R1540AZDB2F-T



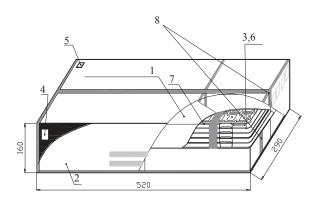
This product is RoHS compliant Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7)).

### **PACKAGING:**

"T" is for a vacuum sealed tray containing 50 units.

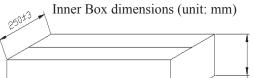
1000 pieces is the suggested quantity containing 20-trays with 50-pcs per Tray.

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

**KoHS** Compliant



270±3

- 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.

70±3

## 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.

**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.





Visitwww.abracon.com forTerms & Conditions of Sale **Revised 01.31.14** 30332Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com