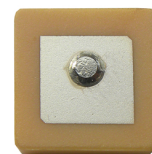


1575.42MHZ; 15x15x4mm GPS Patch Antenna

APAE1575R1540AZDB2F-T



RoHS
Compliant



15.0 x 15.0 x 4.0mm

MSL level: Not Applicable

This product is RoHS compliant

Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7)).

FEATURES:

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

TYPICAL APPLICATIONS:

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

STANDARD SPECIFICATIONS:

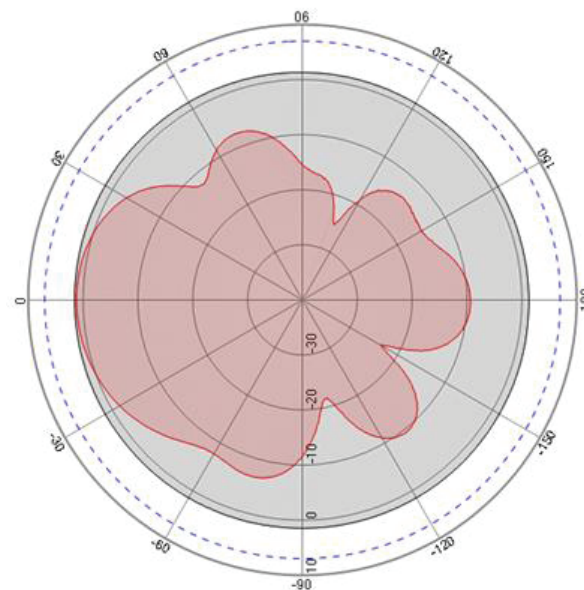
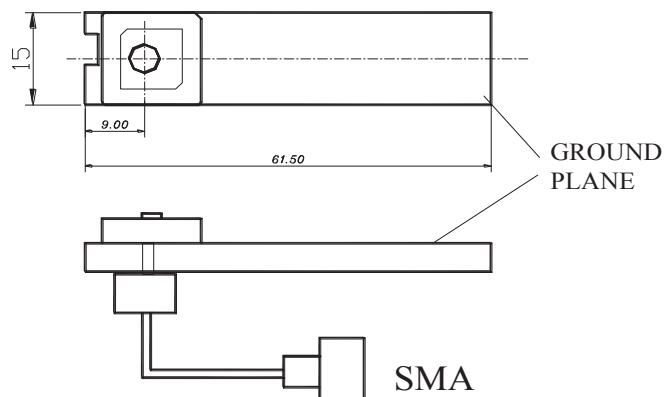
Parameters	Min.	Typ.	Max.	Units	Note
Receiving Frequency Range	1575.42±1.023			MHz	
Center Frequency @ -10dB bandwidth ^(*)	1577.0±5.0			MHz	(with tape on the 15mm x 61.5mm ground plane)
-10dB Bandwidth	5.0			MHz	
Gain (Zenith 90°)		1.2		dBic	(Peak gain on standardized Ground Plane.)
Return Loss at Center 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.

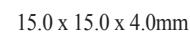
TEST CONDITIONS & TEST SETUP:

RADIATION PATTERN

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



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2007/07/03 Tue 13:38:47

CH1 S33	LOG MAG	REF 0.000 dB	5.000 dB/
CH2 S33	SMITH(R+jX)	FS 970.00m	

MKR 1: 1.577 687 772GHz
-27.557 dB
46.825 Ω

MKR 2: 1.577 687 772GHz
-2.487 Ω
-27.664 dB

CENTER 1.6GHz [0.00 dBm] SPAN 200MHz

Technical drawing of a 1575R-D connector showing three views: front, side, and top.

Front View: A square component with a central circular feature. The overall width is 15 ± 0.3 mm and the overall height is 15 ± 0.3 mm. The central feature has a diameter of 1.05 ± 0.1 mm. The corner radius is $3-R1.0$ and the chamfer is $C1.0$. The part is labeled "1575R-D".

Side View: Shows the profile of the component. The total height is 4.0 ± 0.1 mm. The top flange has a thickness of 0.8 ± 0.1 mm. The distance from the bottom of the flange to the center of the top hole is 3.3 ± 0.3 mm. The bottom flange has a thickness of 0.7 max mm.

Top View: A square component with a central circular feature. The width is 13.0 mm and the height is 13.0 mm. The central feature has a diameter of 1.05 ± 0.1 mm. The surface is labeled "Adhesive Tape".

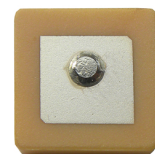
Dimension: mm

1575.42MHZ; 15x15x4mm GPS Patch Antenna

APAE1575R1540AZDB2F-T



RoHS
Compliant



15.0 x 15.0 x 4.0mm

This product is RoHS compliant

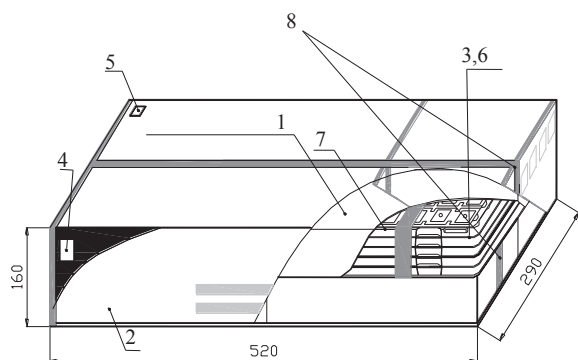
Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7)).

PACKAGING:

“T” is for a vacuum sealed tray containing 50 units.

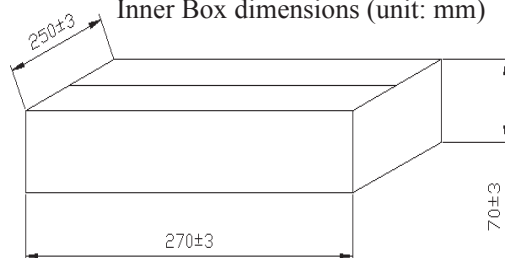
1000 pieces is the suggested quantity containing 20-trays with 50-pcs per Tray.

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

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.

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