

1575.42MHz/1592~1608MHz; 25 x 25 x 4mm

GPS+GLONASS Patch Antenna

APAE1590R2540AKDB1-T

RoHS/RoHS II compliant



25.0 x 25.0 x 4.0mm

MSL level: Not Applicable

FEATURES:

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

TYPICAL APPLICATIONS:

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

STANDARD SPECIFICATIONS:

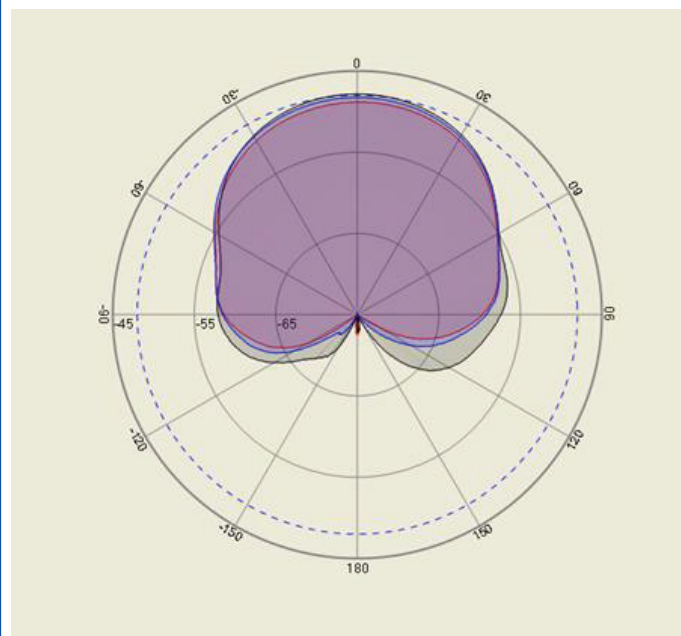
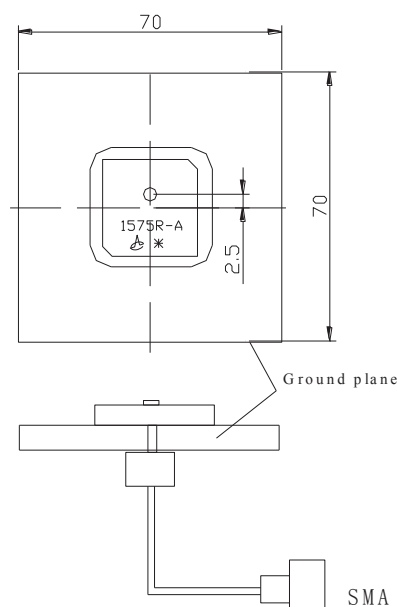
Parameters		Min.	Typ.	Max.	Units	Note
Center Frequency @ -10dB bandwidth ^(*)	GPS	1575			MHz	(with adhesive tape on 70x70mm ground plane)
	GLONASS	1592~1608				
-10dB bandwidth		35			MHz	
Return Loss at Center Frequency		-8			dB	
VWSR				2.32		
Gain (Zenith@90°)			4.5		dBic	(Peak gain on standardized Ground Plane.)
Axial Radio	at 1575 MHz	10.3			dB	
	at 1592 MHz	5.8			dB	
	at 1609 MHz	11.6			dB	
Polarization Model		RHCP			----	(Right Hand Circular Polarization)
Impedance		50			Ω	
Permittivity		21				
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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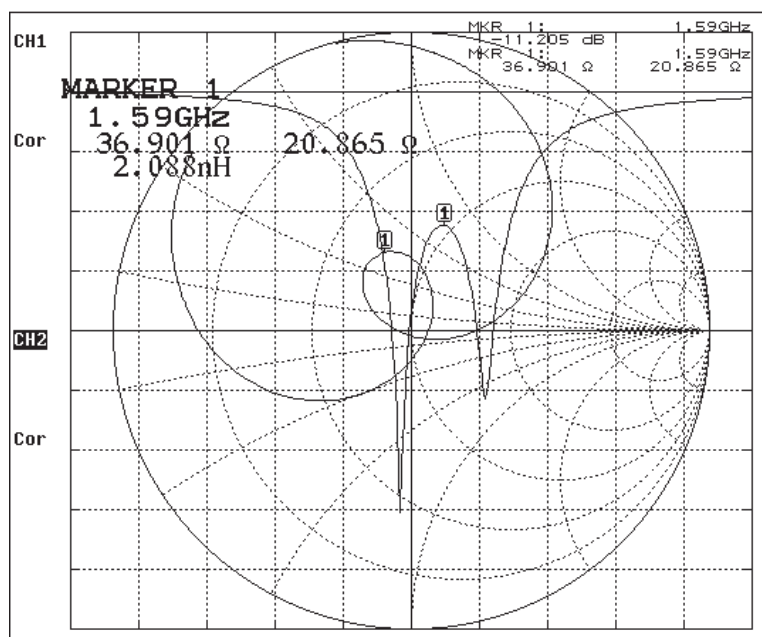
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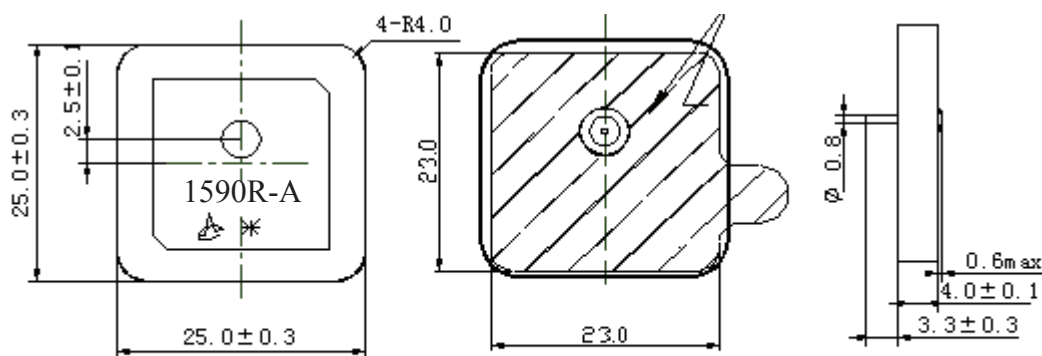


25.0 x 25.0 x 4.0mm

IMPEDANCE CHARACTERISTICS



OUTLINE DRAWING:



Dimension: mm

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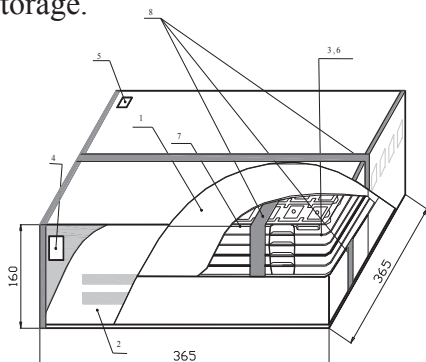
25.0 x 25.0 x 4.0mm

PACKAGING:

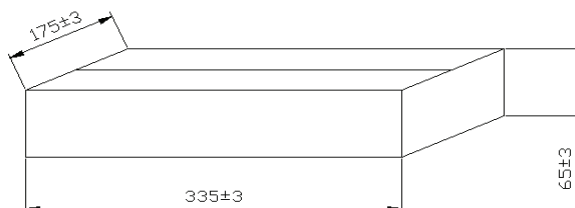
“T” is for a vacuum sealed tray containing 50 units.

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.



Inner Box dimensions (unit: mm)



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

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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ABRACON IS
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