

1575.42MHZ/1598~1606MHz, 13 x 13 x 4mm

GPS+GLONASS Patch Antenna

APAE1590R1340AKDB2-T

RoHS/RoHS II Compliant



13.0 x 13.0 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

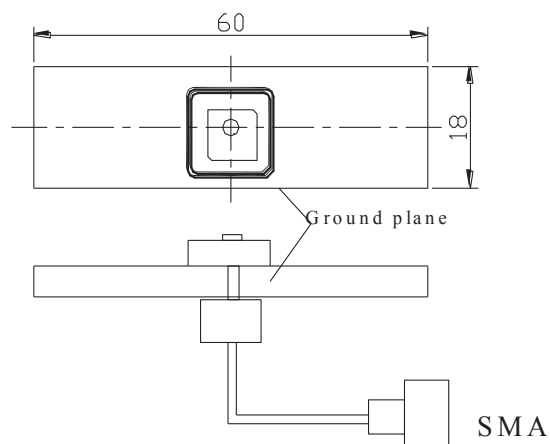
STANDARD SPECIFICATIONS:

| Parameters | | Min. | Typ. | Max. | Units | Note |
|-----------------------------------|---------|-----------|------|------|--------|--|
| Center Frequency ^(*) | GPS | 1575.42 | | | MHz | (with adhesive tape on 18x60mm ground plane) |
| | GLONASS | 1598~1606 | | | | |
| Return Loss at 1582MHz | | | | -10 | dB | |
| Return Loss at 1618MHz | | | | -10 | dB | |
| Axial Ratio | | | 16 | | | |
| RHCP Gain at Zenith 1575MHz | | | | -2 | dBic | (on 50× 50mm ground plane) |
| RHCP Gain at Zenith 1598~1606MHz | | | | -2 | dBic | (on 50× 50mm ground plane) |
| Polarization Model | | RHCP | | | | (Right Hand Circular Polarization) |
| Impedance | | 50 | | | Ω | |
| Permittivity | | 91 | | | | |
| Frequency Temperature Coefficient | | | | 20 | ppm/°C | |

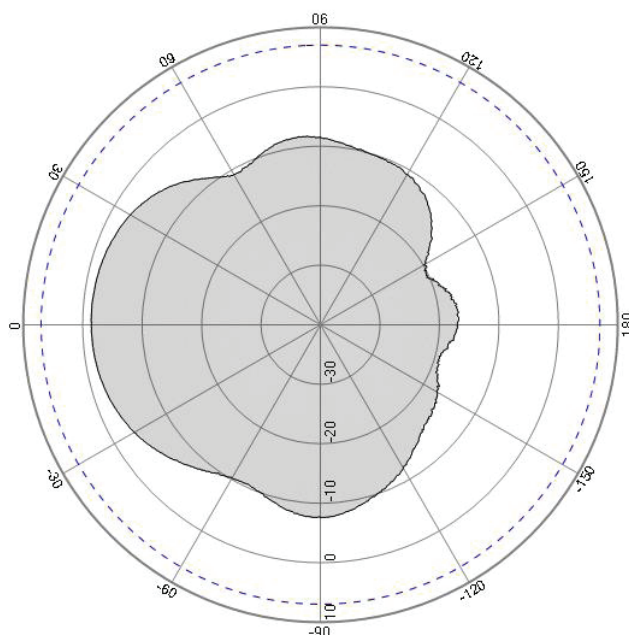
(*) Application environment, including size of ground plane will affect stated performance. Fine tuning might be required when installed on customer's PCB.

TEST CONDITIONS & TEST SETUP:

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



RADIATION PATTERN



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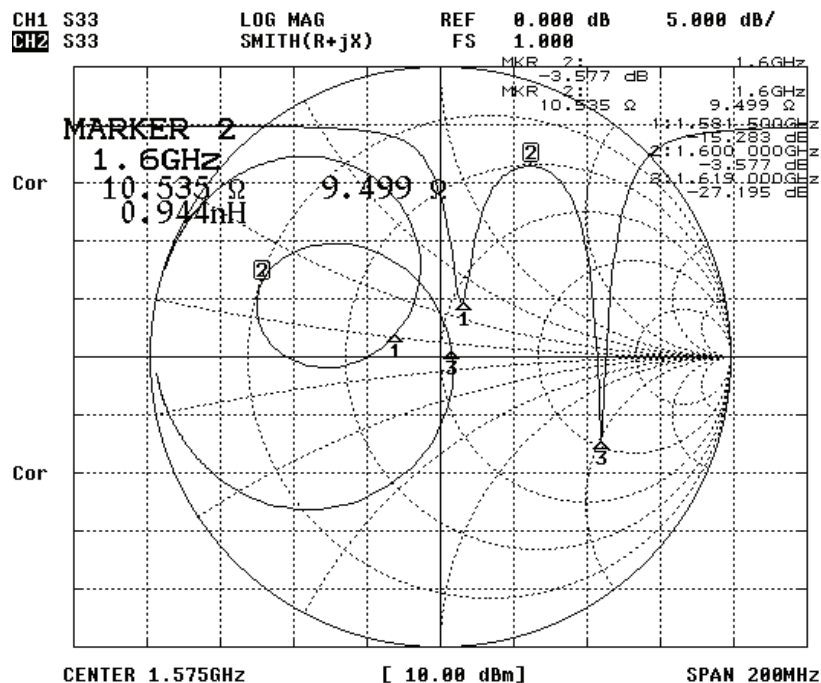
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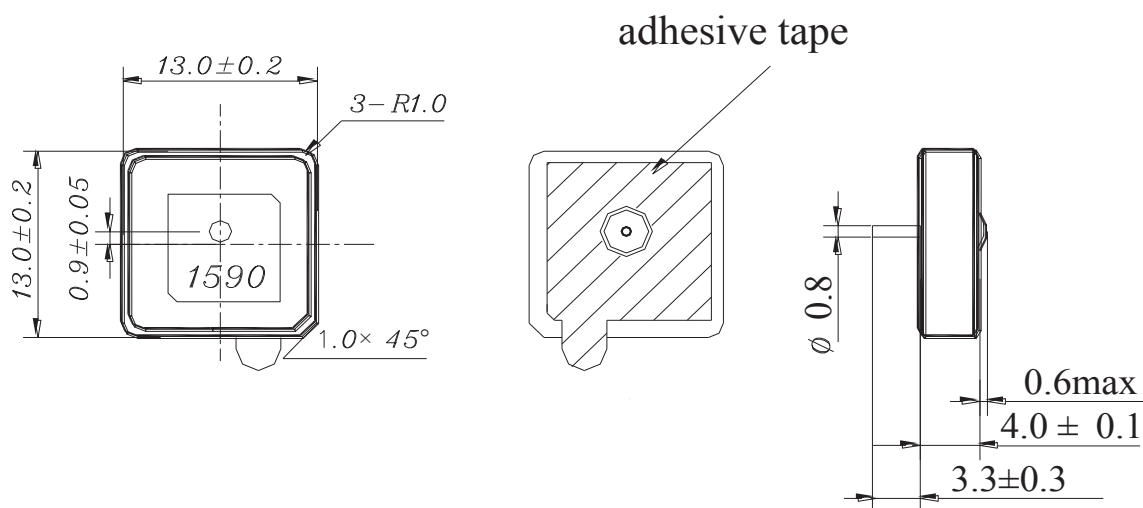


13.0 x 13.0 x 4.0mm

IMPEDANCE CHARACTERISTICS



OUTLINE DRAWING:



Dimension: mm

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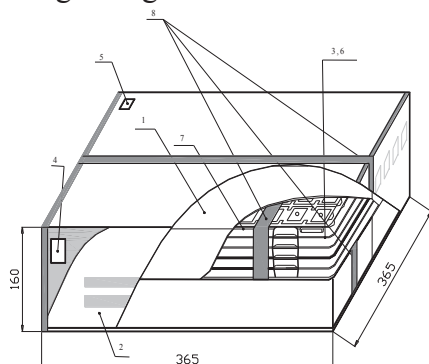
13.0 x 13.0 x 4.0mm

PACKAGING:

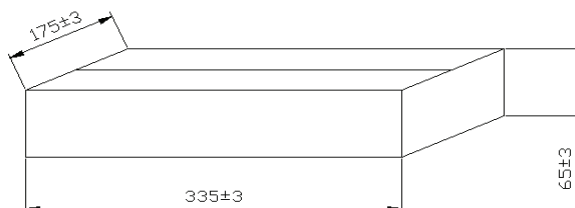
"T" is for a vacuum sealed tray containing 50 units.

2000 pieces is the suggested quantity containing 40-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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