

# 2338MHz; 25 x 25 x 4mm SDARS Patch Antenna

**APAE2338L2540DDDB1-T**



**RoHS**  
Compliant



25.0 x 25.0 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:

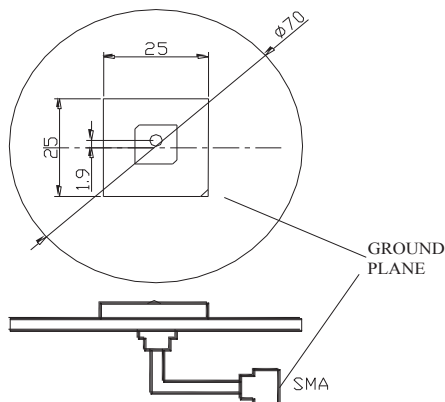
- Satellite radios

## STANDARD SPECIFICATIONS:

| Parameters                        | Min.        | Typ.  | Max.  | Units    | Note                                              |
|-----------------------------------|-------------|-------|-------|----------|---------------------------------------------------|
| Center Frequency @ 10dB bandwidth | 2338.0±10.0 |       |       | MHz      | (with adhesive tape on $\phi 70$ mm ground plane) |
| -10dB bandwidth                   | 30          | ----- | ----- | MHz      |                                                   |
| VSWR @ Center Frequency           | -----       | ----- | 1.5   | ----     |                                                   |
| Polarization Model                | LHCP        |       |       | ----     |                                                   |
| Impedance                         | 50          |       |       | $\Omega$ |                                                   |
| Gain ( Zenith 90°)                |             | 5.0   |       | dBi      |                                                   |
| Frequency Temperature Coefficient | -----       | ----- | 20    | ppm/°C   |                                                   |

## TEST CONDITIONS & TEST SETUP:

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



## PART IDENTIFICATION:

APAE2338L2540DDDB1 -

### Packaging

T100: 100pcs/box  
T:1000pcs/box

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|         |             |              |           |
|---------|-------------|--------------|-----------|
| 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  
MKR 1: 1.577 687 772GHz  
46.825  $\Omega$   
-2.487  $\Omega$   
1.577 687 GHz  
-27.564 dB

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CENTER 1.6GHz [ 0.00 dBm] SPAN 200MHz

Technical drawing of the 2338L-D component, showing three views: front, side, and back.

**Front View:**

- Overall width:  $25.0 \pm 0.3$
- Overall height:  $25.0 \pm 0.3$
- Inner square width:  $1.90 \pm 0.1$
- Inner square height:  $1.90 \pm 0.1$
- Inner square label: 2338L-D
- Inner square corner radius:  $3-R1.3$
- Outer square corner chamfer:  $2.0 \times 45^\circ$

**Side View:**

- Overall height:  $0.8$
- Inner square width:  $4.0 \pm 0.1$
- Inner square height:  $4.0 \pm 0.1$
- Inner square corner radius:  $0.6 \text{ Max}$
- Inner square label: 2338L-D

**Back View:**

- Overall width:  $25.0 \pm 0.3$
- Overall height:  $25.0 \pm 0.3$
- Inner square width:  $1.90 \pm 0.1$
- Inner square height:  $1.90 \pm 0.1$
- Inner square label: 2338L-D
- Inner square corner radius:  $3-R1.3$
- Outer square corner chamfer:  $2.0 \times 45^\circ$

**Labels:**

- 2338L-D
- Adhesive Tape

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30332 Esperanza, Rancho Santa Margarita, California 92688  
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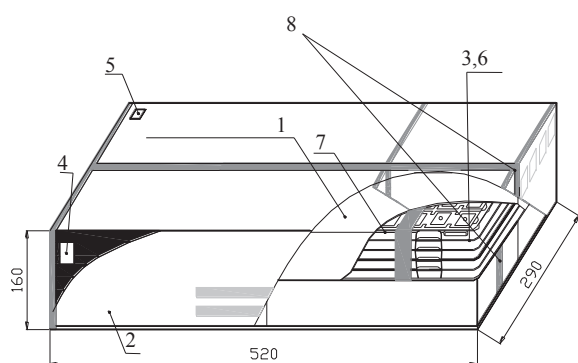
Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7)).

## PACKAGING:

T100 = 2 trays containing a total of 100pcs devices

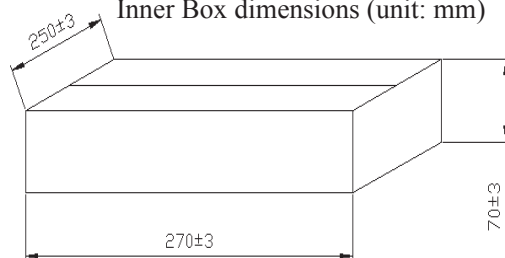
T = 40 trays containing a total of 2000pcs devices

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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ABRACON IS  
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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
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