



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

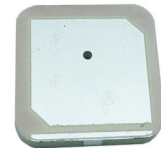
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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



7dBi WiFi / Bluetooth Ceramic Patch Antenna



APAKN2504-S2448-T

25.0 x 25.0 x 4.0mm

RoHS/RoHS II Compliant

MSL = 1

FEATURES

- Gain of 7dBi
- 2.4GHz band
- 100 MHz bandwidth
- Surface mount patch antenna
- 25.0 x 25.0 x 4.0mm form factor

APPLICATIONS

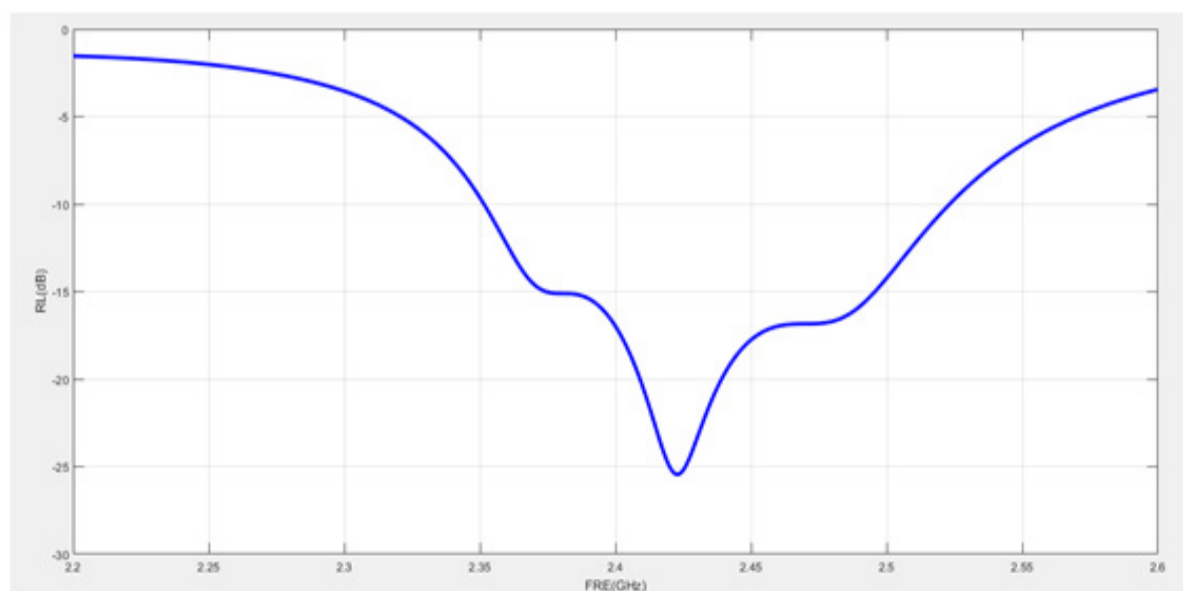
- Wifi
- Bluetooth
- ZigBee
- ISM applications

ELECTRICAL SPECIFICATIONS

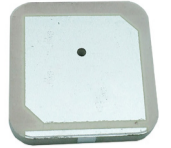
| Parameters | min | Typ. | Max. | Units | Note |
|-----------------------------------|--------|------|------|-------------------|-------------------------------|
| Receiving Frequency Range | 2412 | | 2484 | MHz | (On a 70*70mm Ground Plane) |
| Bandwidth | 100 | | | MHz | (Return loss \leq -10dB) |
| Return Loss | | | -10 | dB | (@ CF) |
| Gain | | 7.0 | | dBi | (Peak gain) |
| Polarization Model | Linear | | | | |
| Impedance | 50 | | | Ω | |
| Frequency Temperature Coefficient | | | 20 | ppm/ $^{\circ}$ C | |

(*) Application environment, including size of the ground plane, proximity to adjacent components, etc., will affect stated performance. Fine tuning might be required when installed on end-customer's PCB. Abracon offers Antenna Optimization Service, please contact Abracon.

RETURN LOSS CHARACTERISTIC



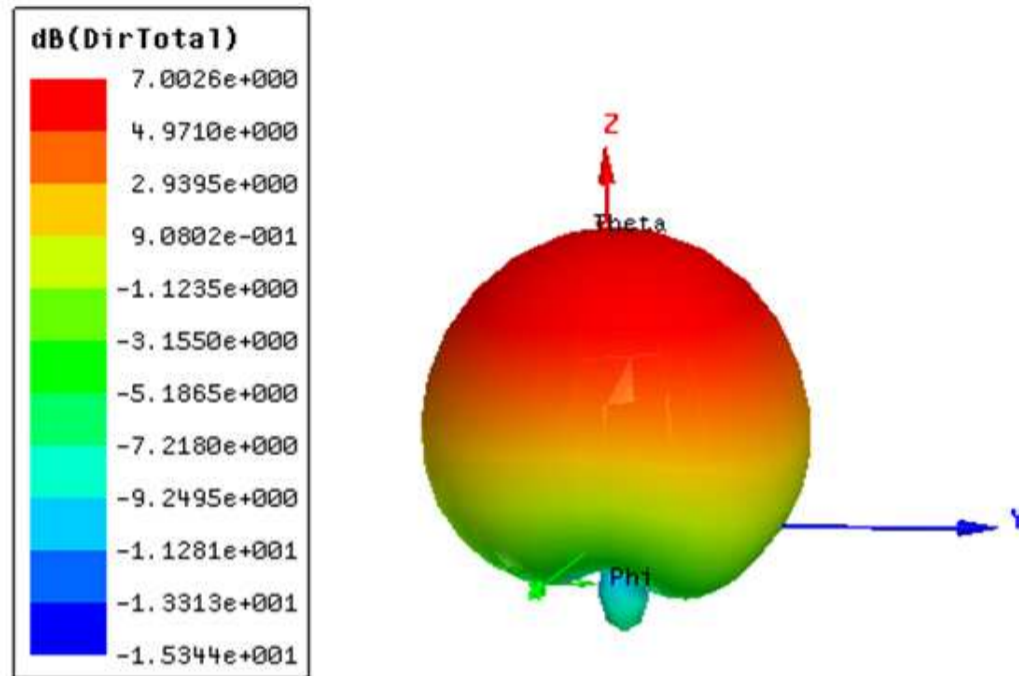
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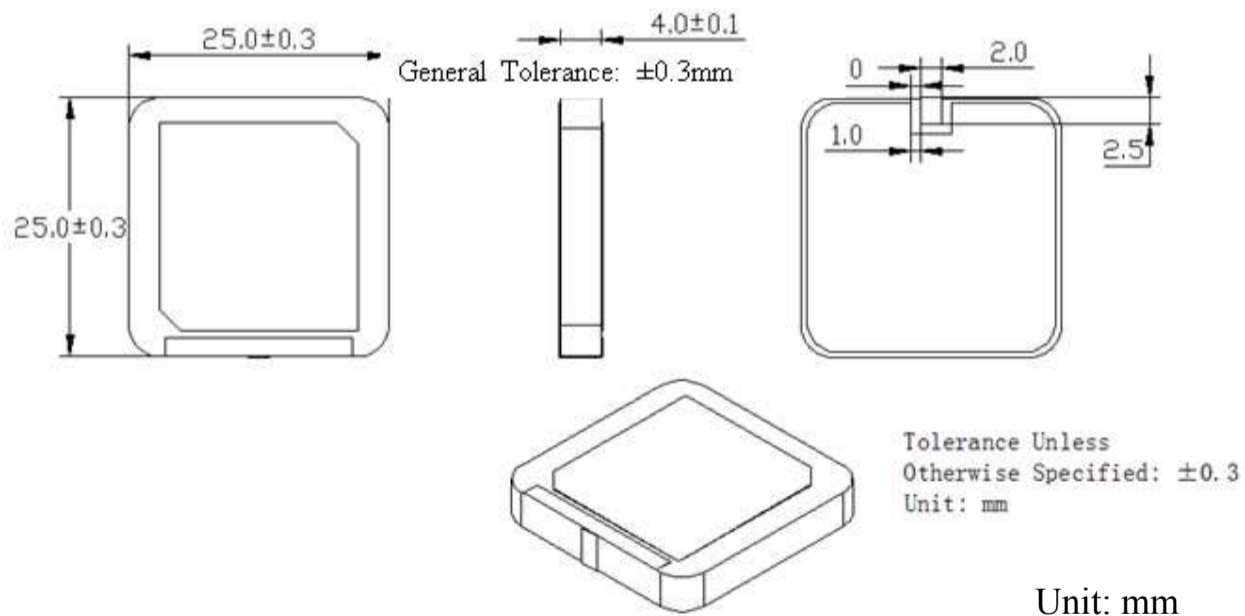
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RADIATION PATTERN (3D)

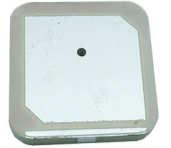


Radiation pattern@ 2.45GHz

OUTLINE DIMENSIONS



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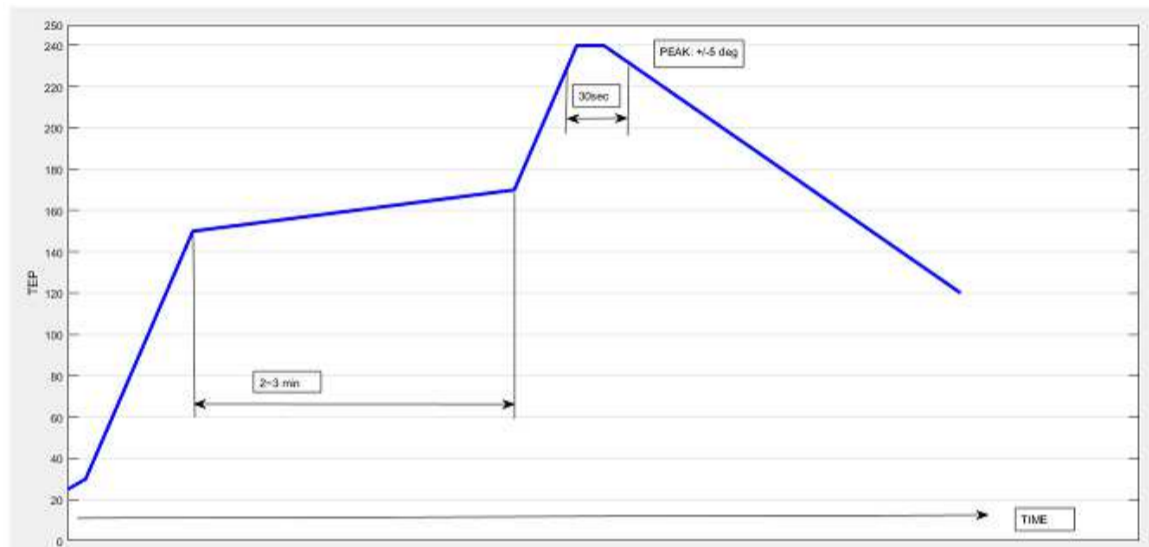
APAKN2504-S2448-T

25.0 x 25.0 x 4.0mm
RoHS/RoHS II Compliant
MSL = 1

RECOMMENDED REFLOW SOLDERING PROFILE

Solder Paste: Sn/Ag/Cu: 96.5/3.0/0.5

Recommended reflow condition:



PACKAGING

Package is made of corrugated paper with thickness of 0.8cm. The carton has 4 inner boxes; each box has 1 vacuum bag.

Quantity:

Per package base : 50 elements
Per vacuum bag : 5 package bases
Per inner box : 1 vacuum bag
Per package : 4 inner boxes
No of pieces of elements : 1000
Gross weight : 12Kg
Carton dimensions : 37*37*17cm