

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

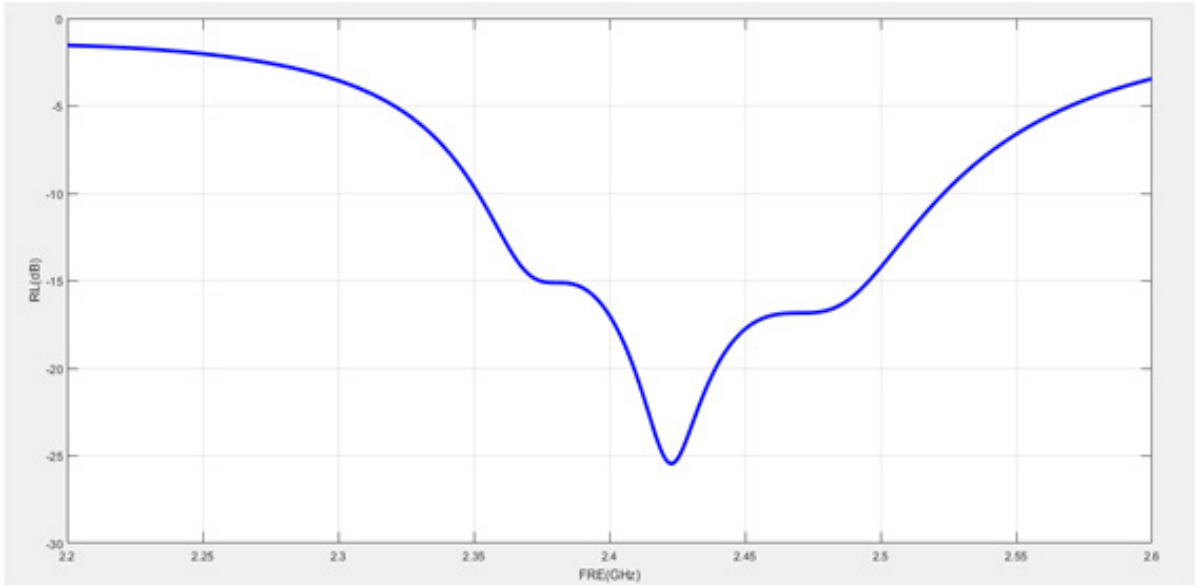
- Wifi
- Bluetooth
- ZigBee
- ISM applications

ELECTRICALSPECIFICATIONS

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/°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.

RETURNLOSSCHARACTERISTIC



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
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REVISED: 03.01.2021

ABRACON IS
ISO9001-2015
CERTIFIED

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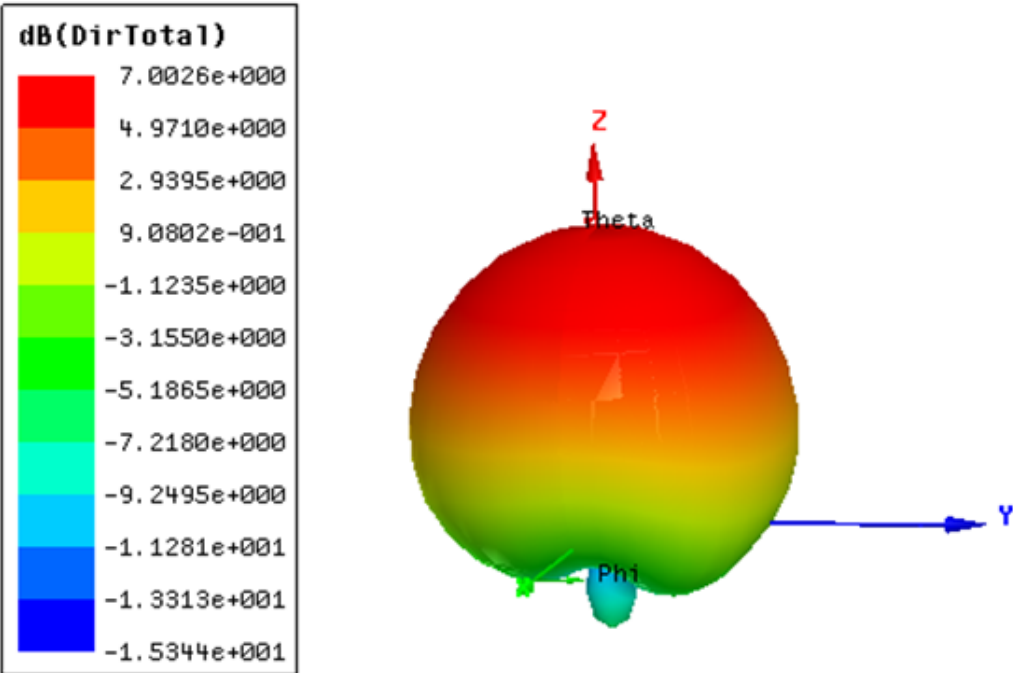


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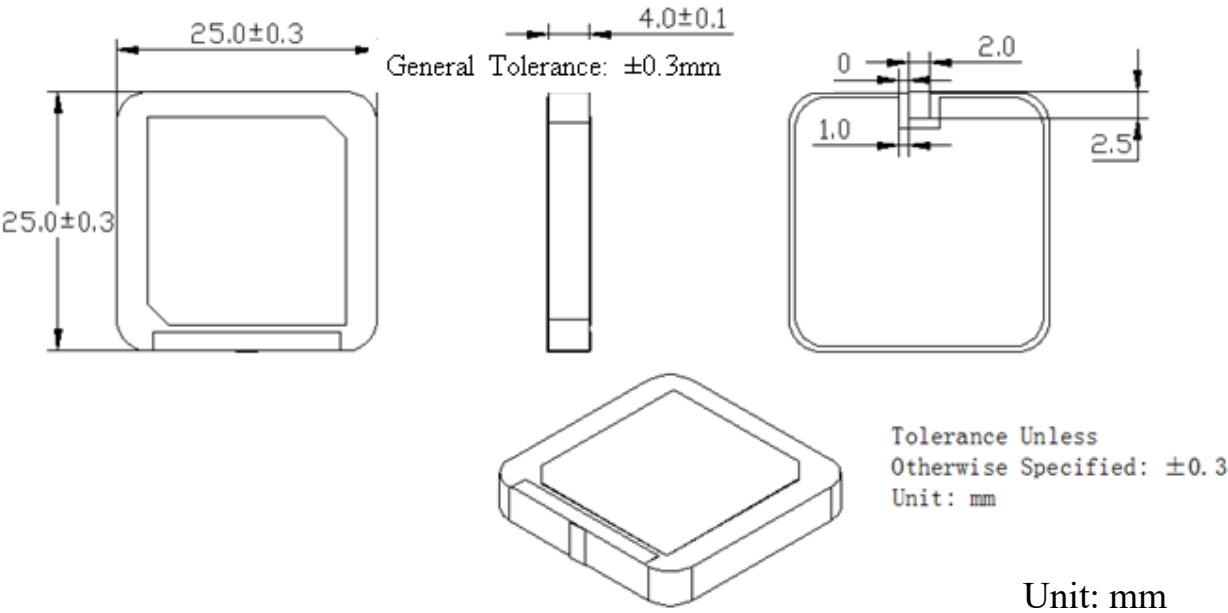
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RADIATION PATTERN (3D)



Radiation pattern@ 2.45GHz

OUTLINE DIMENSIONS



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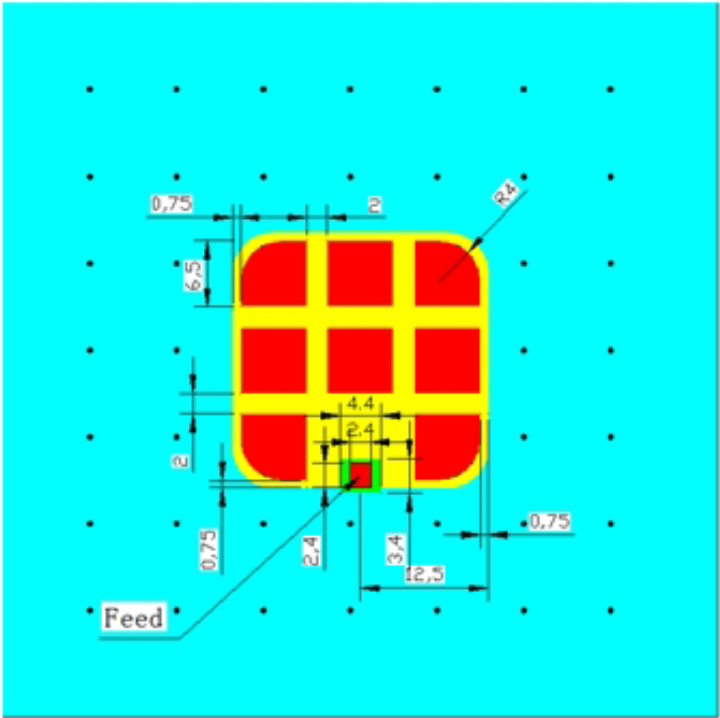
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LAND PATTERN

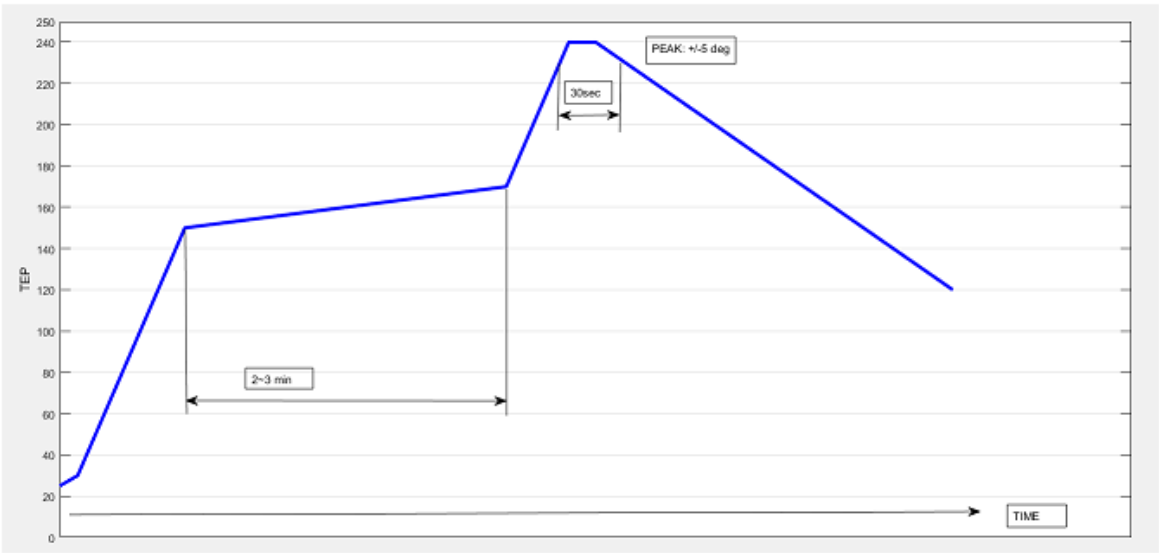


- Via Thru Hole
- Solder Pattern
- No Ground
- Solder Register
- Ground

RECOMMENDED REFLOW SOLDERING PROFILE

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

Recommended reflow condition:



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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



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