

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

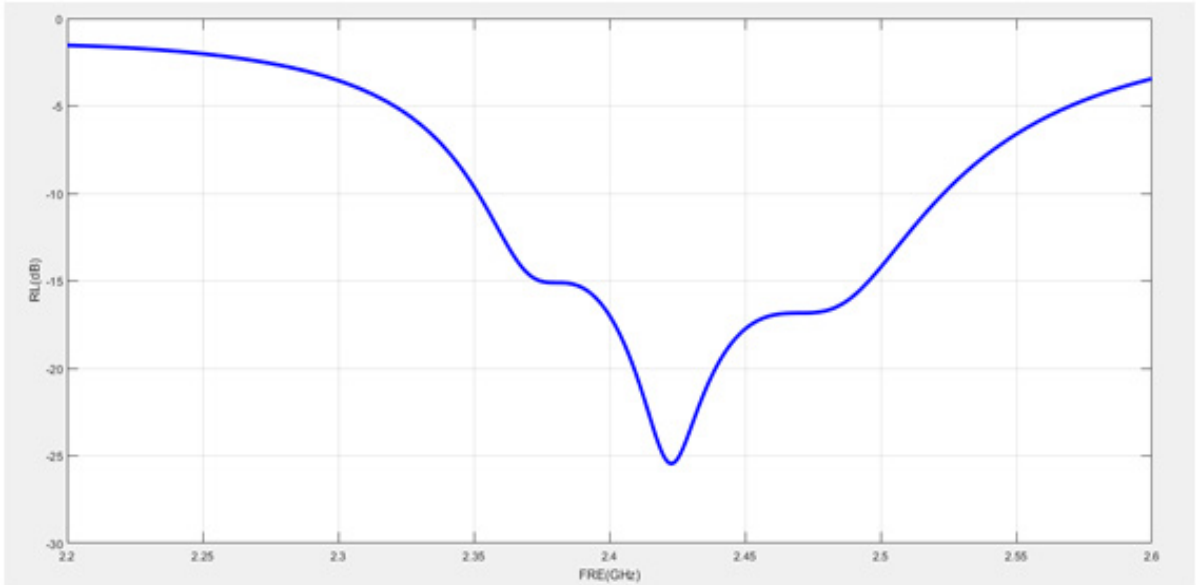
- Wifi
- Bluetooth
- ZigBee
- ISM applications

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 ≤-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.

RETURN LOSS CHARACTERISTIC



5101 Hidden Creek Ln Spicewood TX 78669  
Phone: 512-371-6159 | Fax: 512-351-8858  
For terms and conditions of sales, please visit:  
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REVISED: 01.31.2019

ABRACON IS  
ISO9001-2015  
CERTIFIED

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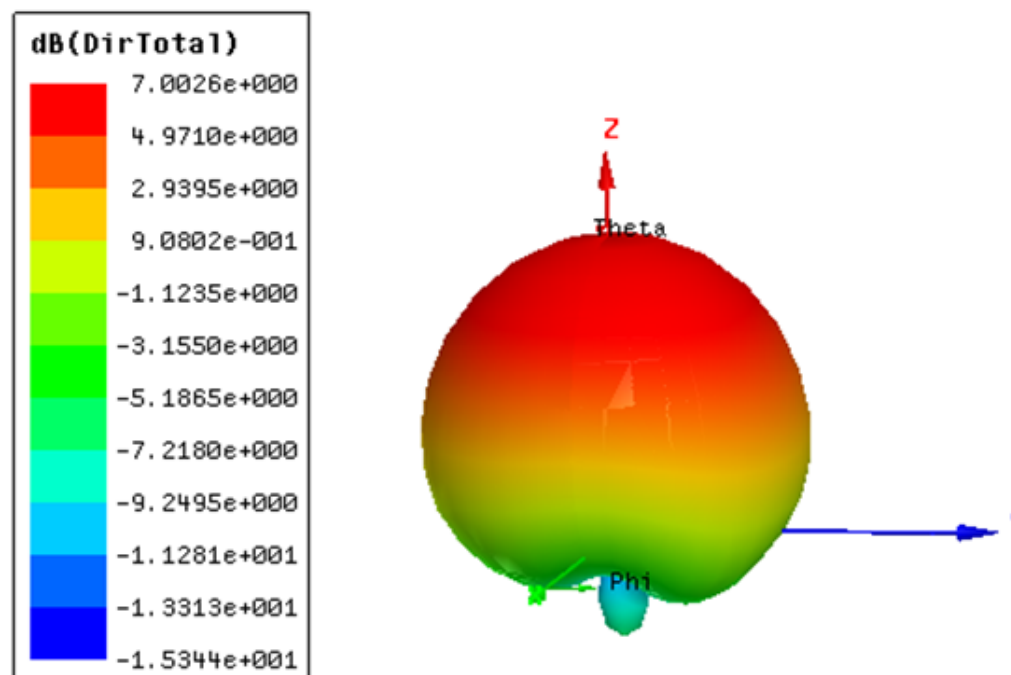
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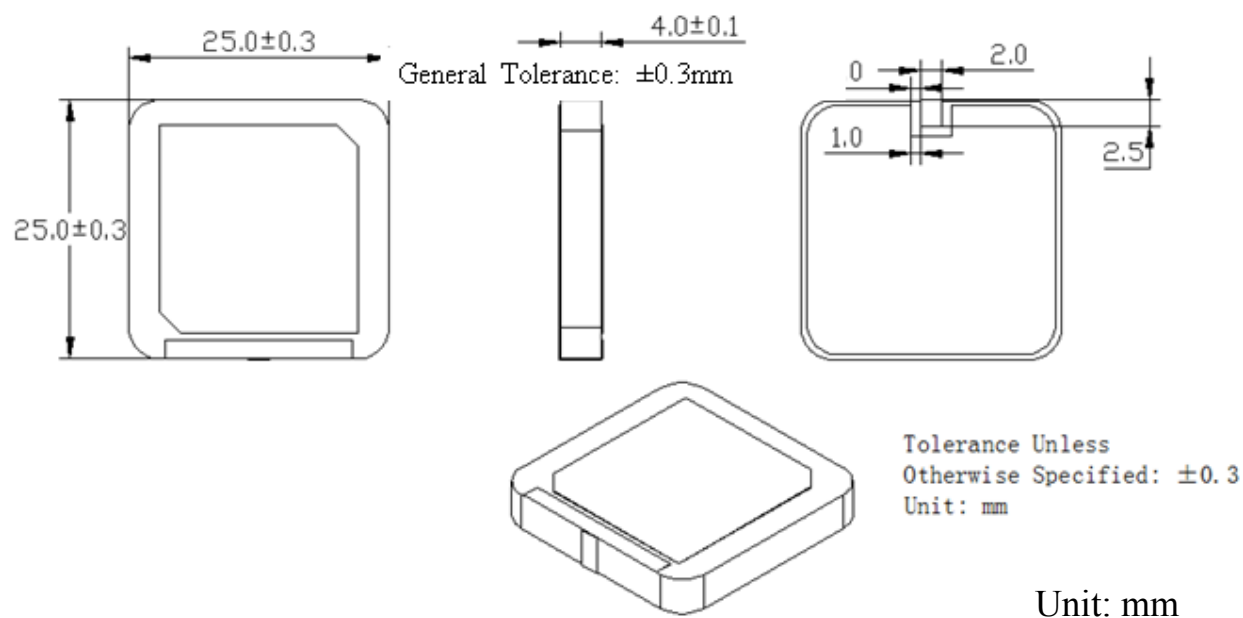
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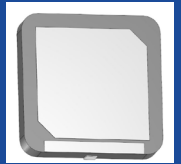
## RADIATION PATTERN (3D)



## OUTLINE DIMENSIONS



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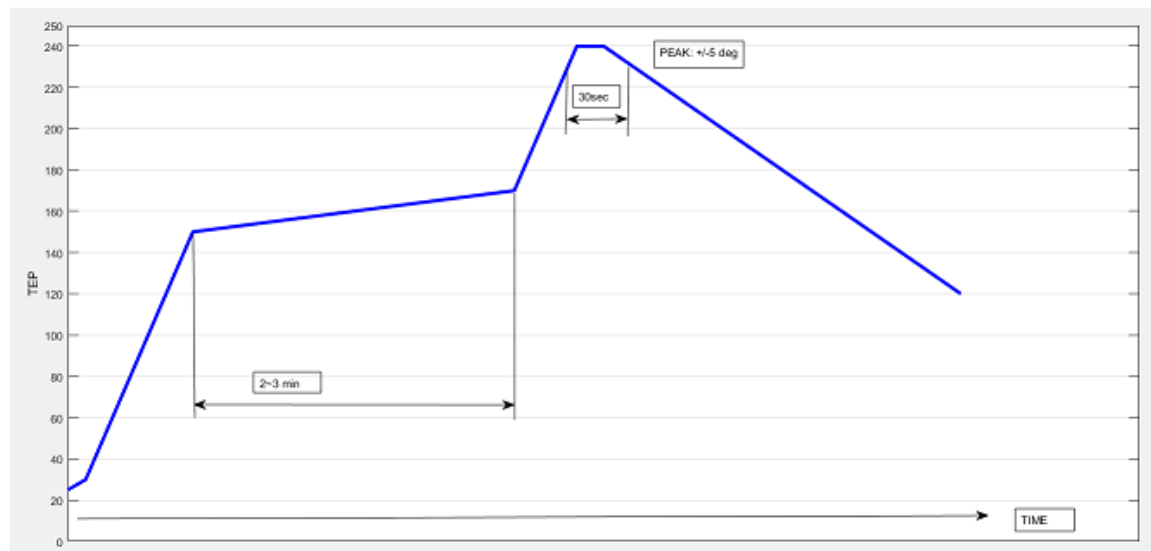
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## RECOMMENDED REFLOW SOLDERING PROFILE

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



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