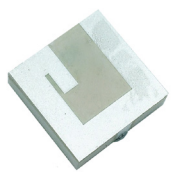


# 5GHz WiFi Ceramic Patch Antenna



APAKN1304-S5517-T

13.0 x 13. x 4.0mm  
RoHS/RoHS II Compliant  
MSL =1

## FEATURES

- High gain of 6 dBi
- 5.15 - 5.85 GHz band operation
- Small form factor of 13.0 x 13.0 x 4.0 mm

## APPLICATIONS

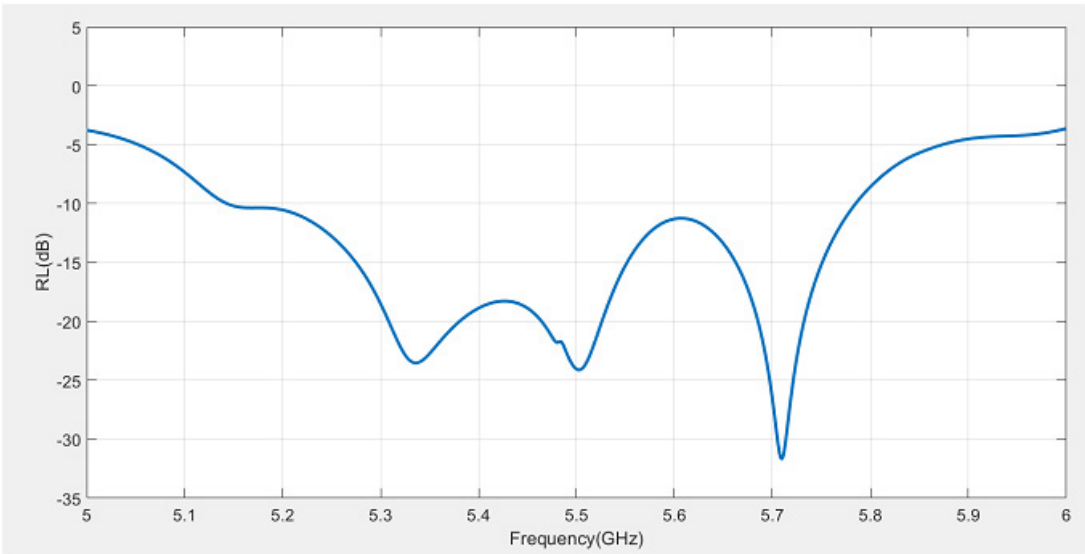
- WiFi
- ISM applications

## ELECTRICALSPECIFICATIONS

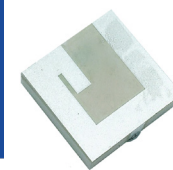
| Parameters                        | min    | Typ. | Max. | Units    | Note                          |
|-----------------------------------|--------|------|------|----------|-------------------------------|
| Receiving Frequency Range         | 5150   |      | 5885 | MHz      | ( On a 70*70mm Ground Plane ) |
| Bandwidth                         | 500    |      |      | MHz      | (Return loss $\leq$ -10dB)    |
| Return Loss                       |        |      | -10  | dB       | (at CF)                       |
| Gain                              |        | 6.0  |      | dBi      | (Peak gain)                   |
| Polarization Model                | Linear |      |      |          |                               |
| Impedance                         | 50     |      |      | $\Omega$ |                               |
| 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



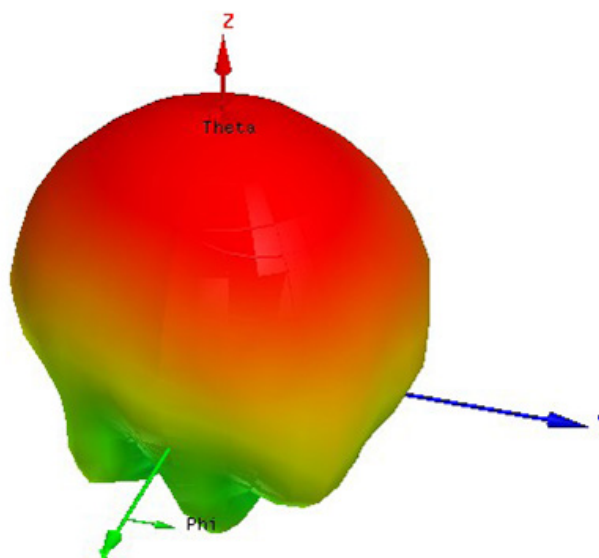
# 5GHz WiFi Ceramic Patch Antenna



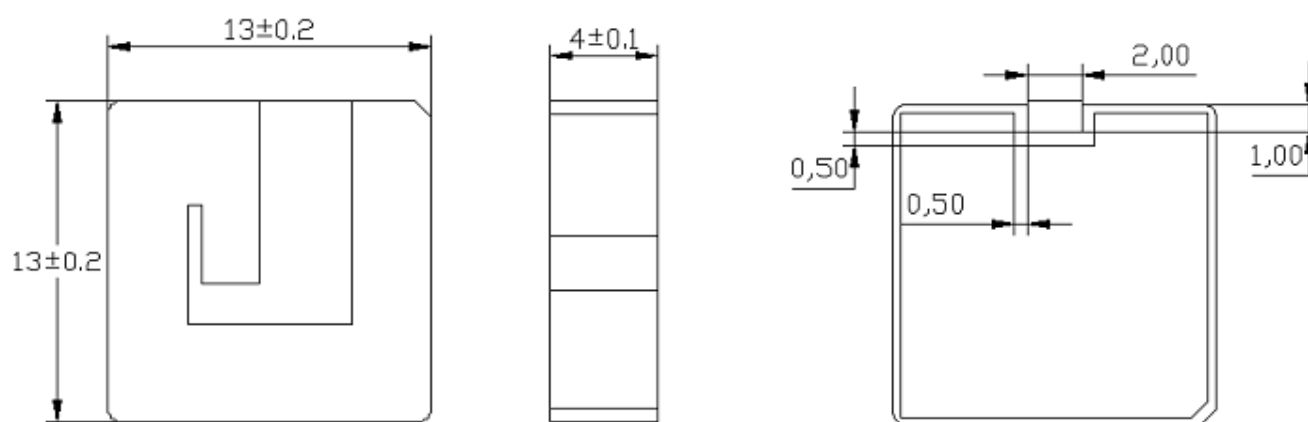
APAKN1304-S5517-T

13.0 x 13.0 x 4.0mm  
RoHS/RoHS II Compliant  
MSL =1

## RADIATIONPATTERN(3D)



## OUTLINEDIMENSIONS

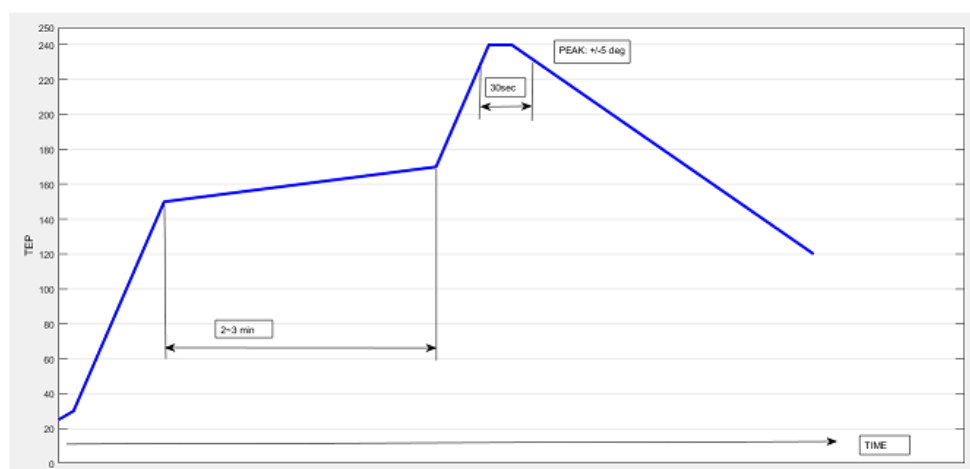


Unit: mm

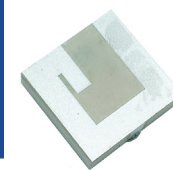
General Tolerance:  $\pm 0.3$ mm

## RECOMMENDEDREFLOWSOLDERINGPROFILE

Solder Paste: Sn/Ag/Cu: 96.5/3.0/0.5  
Recommended reflow condition:



# 5GHz WiFi Ceramic Patch Antenna



APAKN1304-S5517-T

13.0 x 13. x 4.0mm  
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MSL =1

## PACKAGING

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Package is made of corrugated paper with thickness of 0.8cm. Carton has 8 inner boxes; each inner 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                | : 8 inner boxes   |
| Total No of pieces/package | : 2000            |
| Gross Weight               | : 9Kg             |
| Carton dimensions          | : 52x29x16cm      |

# Mouser Electronics

Authorized Distributor

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