

GPS/Galileo + GLONASS Ceramic Patch Antenna



APAKN1304-C2G-T

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

FEATURES

- Gain of 2.6 dBi
- 1575.42 MHz frequency
- RHCP Polarization
- 13.0 x 13.0 x 4.0mm form factor
- GPS/Galileo and Glonass

APPLICATIONS

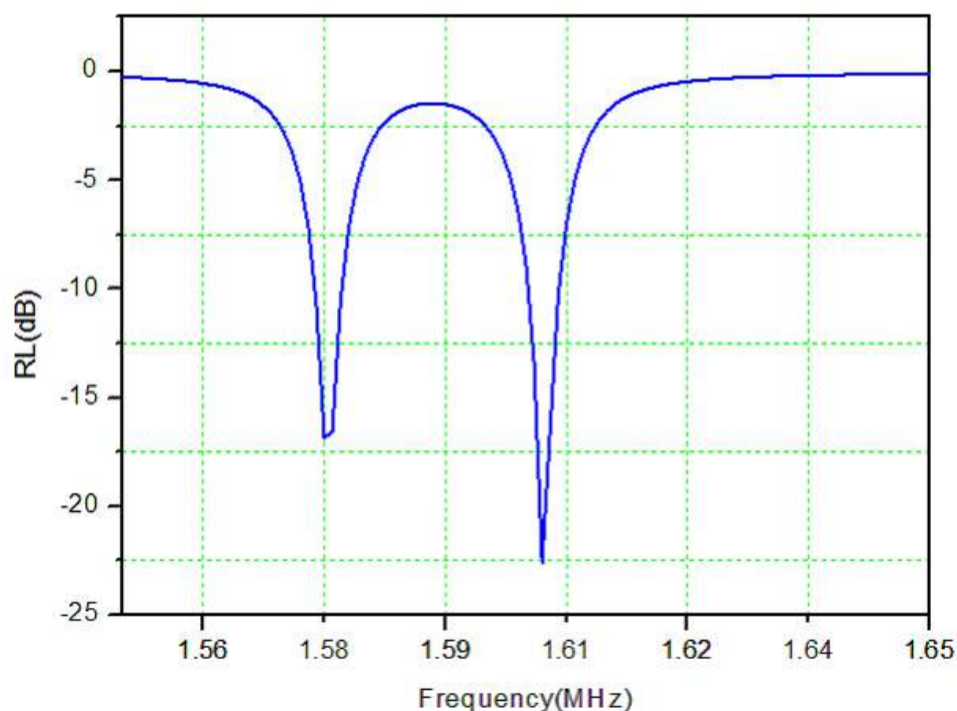
- GPS/GNSS
- Galileo
- GLONASS
- IoT
- Remote technology/monitoring
- M2M

ELECTRICAL SPECIFICATIONS

Parameters	min	Typ.	Max.	Units	Note
Application Band: GPS / Galileo		1575.42±1.023		MHz	(On a 70*70mm Ground Plane)
Return Loss: GPS / Galileo			-10	dB	
Gain (Peak): GPS / Galileo		2.6		dBi	
Application Band: GLONASS		1602±5.0		MHz	(On a 70*70mm Ground Plane)
Return Loss: GLONASS			-10	dB	
Gain (Peak): GLONASS		2.4		dBi	
Polarization Model	RHCP				
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



Return Loss characteristic shows a dual band response for GPS/Galileo & GLONASS R.H.).



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REVISED: 02.13.2020

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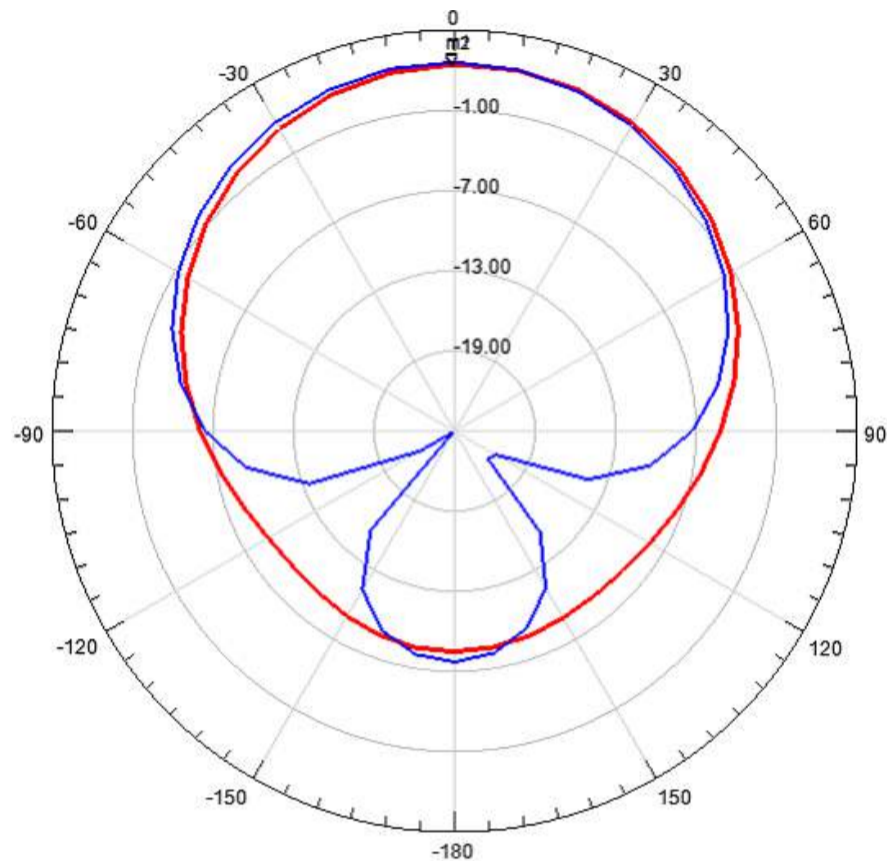
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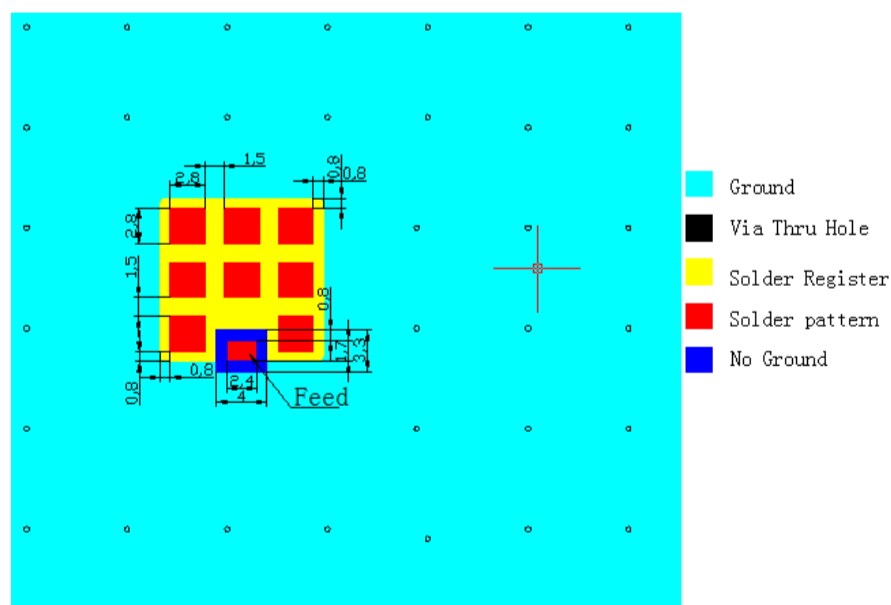
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RADIATION PATTERN (X-Y PLANE)



LANDING PATTERN



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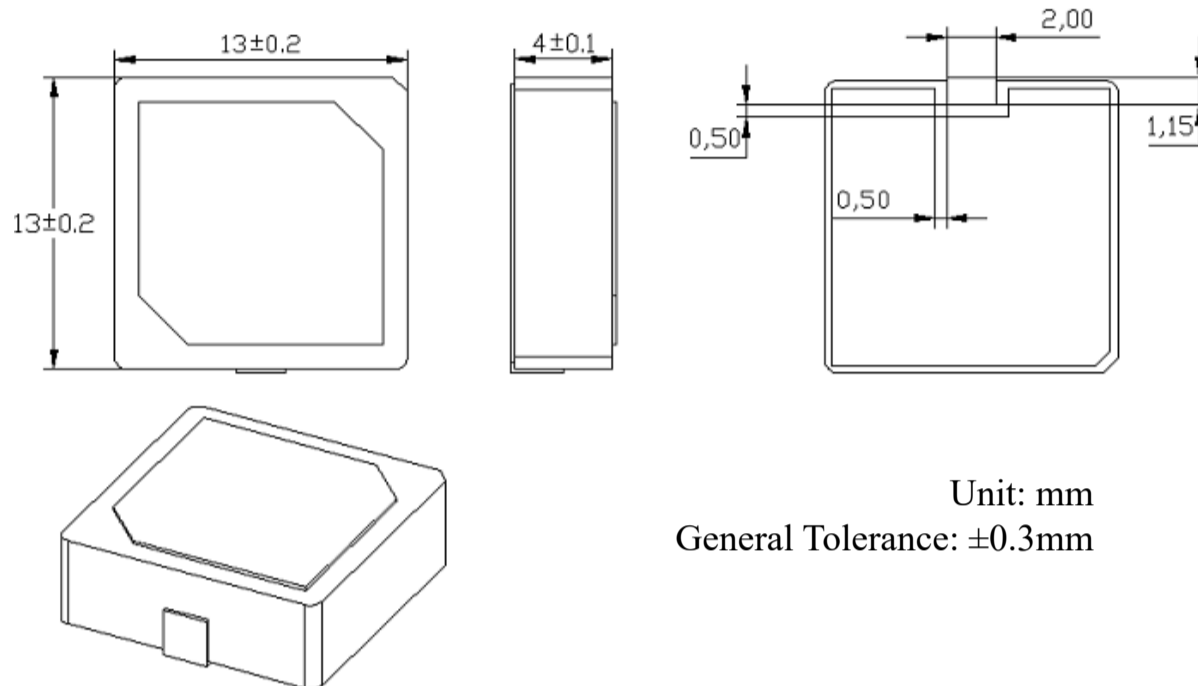
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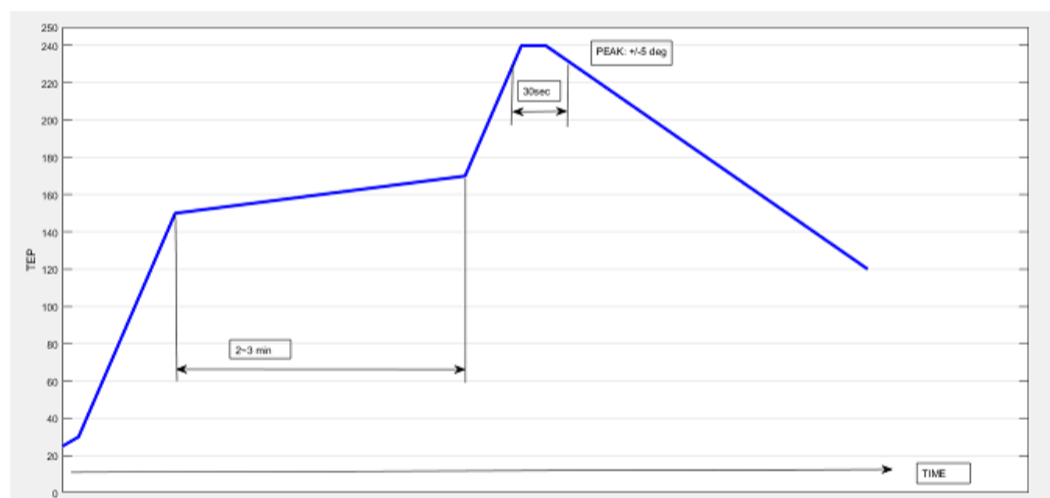
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OUTLINE DIMENSIONS



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. Carton has 8 inner boxes; each inner box has 1 vacuum bag.

Quantity:

Per package base	: 50 elements
Per vacuum bag	: 5 package bases / trays
Per inner box	: 1 vacuum bag
Per package	: 8 inner boxes
Total No of pieces/ package	: 2000
Gross Weight	: 9 Kg
Carton Dimensions	: 52*29*16cm

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