

# GPS/Galileo + GLONASS Ceramic Patch Antenna



APAKN1804-C2G-T

18.0 x 18.0 x 4.0mm  
RoHS/RoHS II Compliant  
MSL = 1

## FEATURES

- Gain of 2.8 dBi
- 1575.42 and 1602 MHz bands
- RHCP polarization
- 18.0 x 18.0 x 4.0mm form factor

## APPLICATIONS

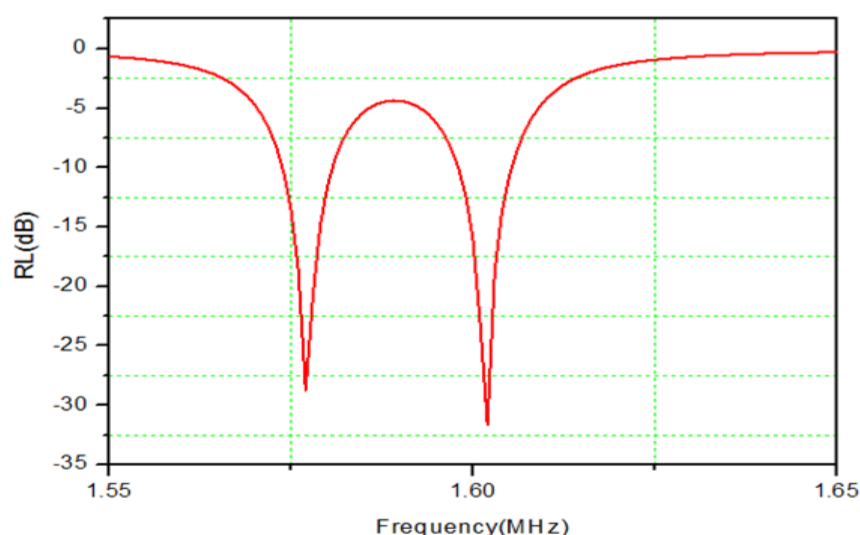
- GPS/GNSS
- Galileo
- GLONASS
- IoT
- Remote technology/monitoring
- M2M

## ELECTRICAL SPECIFICATIONS

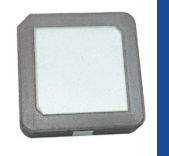
Parameters	min	Typ.	Max.	Units	Note
<b>Application Band: GPS / Galileo</b>		1575.42±1.023		MHz	( On a 70*70mm Ground Plane )
Return Loss: GPS / Galileo			-10	dB	
Gain (Peak): GPS / Galileo		2.8		dBi	
<b>Application Band: GLONASS</b>		1602±5.0		MHz	( On a 70*70mm Ground Plane )
Return Loss: GLONASS			-10	dB	
Gain (Peak): GLONASS		2.9		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



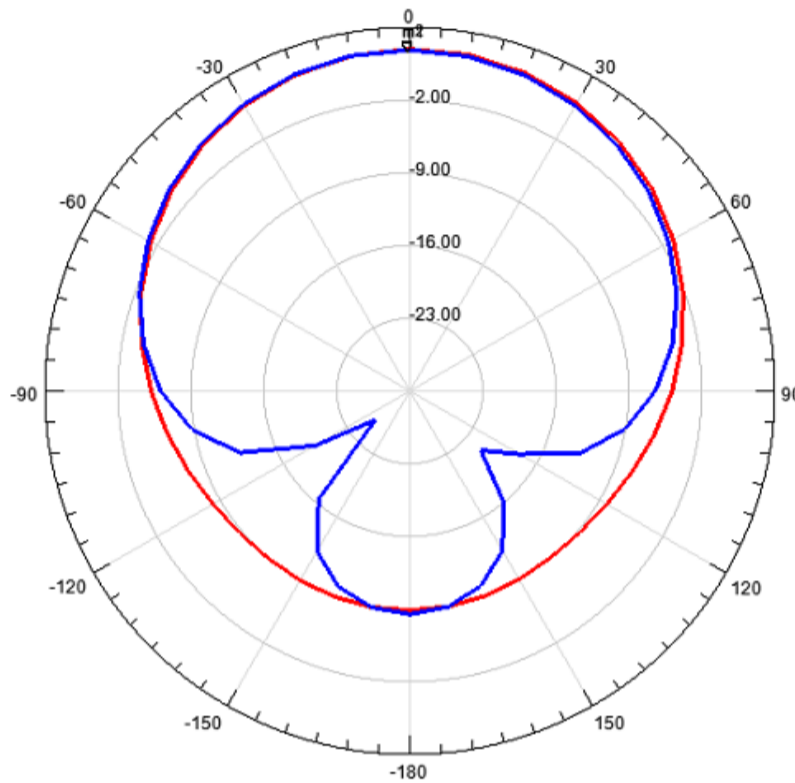
# GPS/Galileo + GLONASS Ceramic Patch Antenna



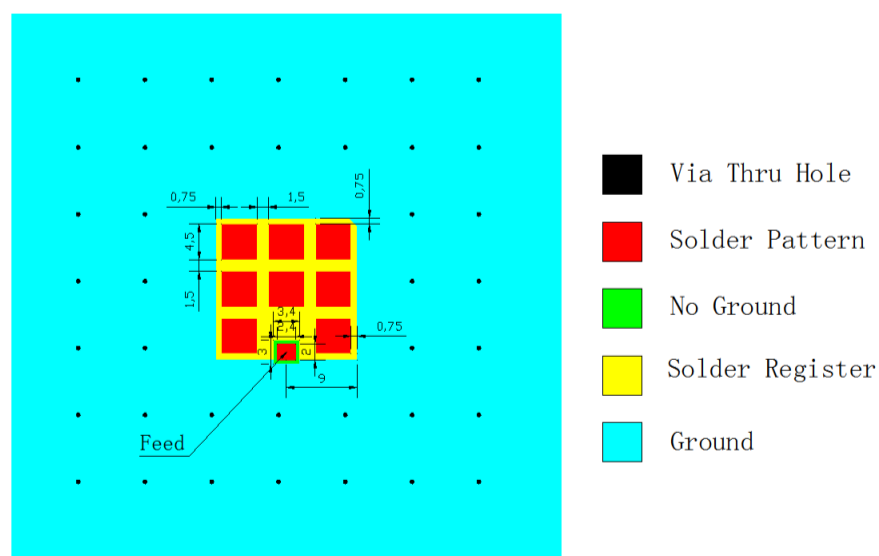
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## RADIATION PATTERN (X-Y PLANE)



## LANDING PATTERN



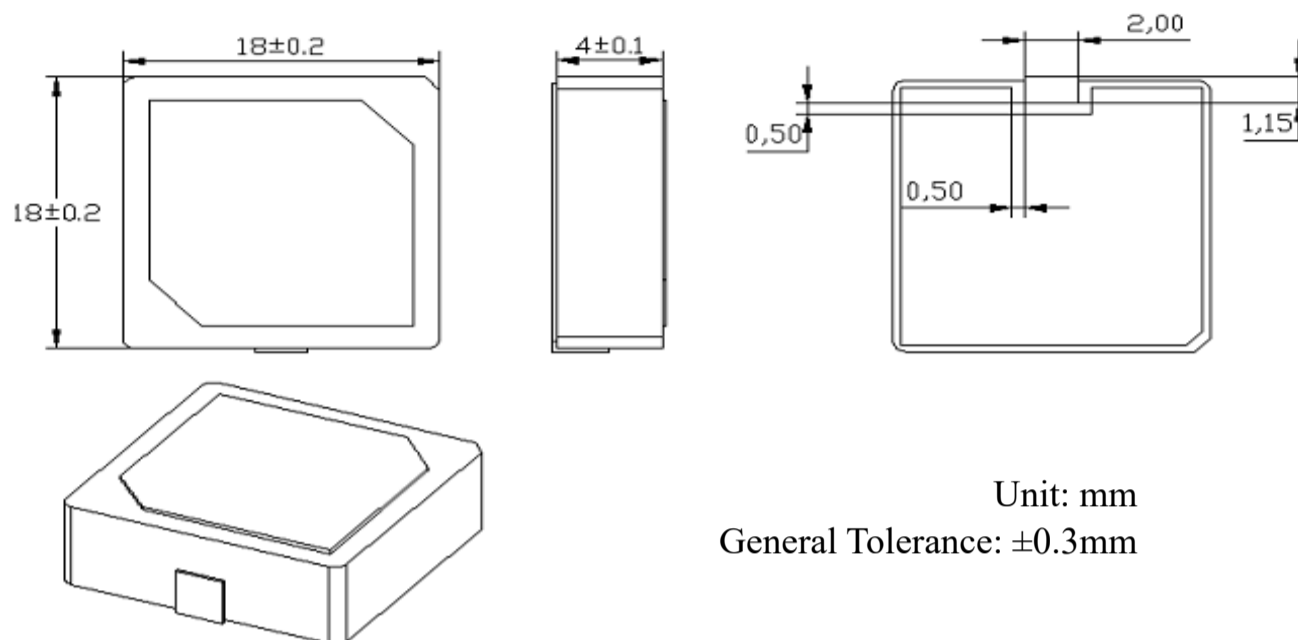
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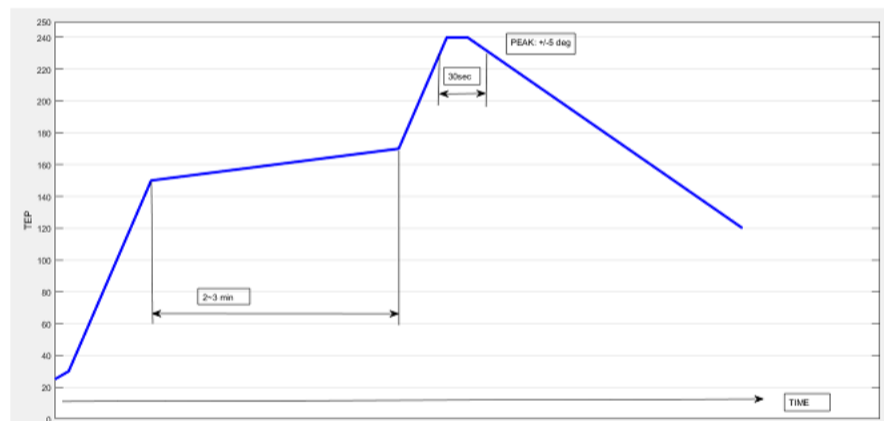
## OUTLINE DIMENSIONS



## 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 4 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	: 4 inner boxes
Total No of pieces/package	: 1000
Gross Weight	: 8 Kg
Carton Dimensions	: 36x32x19cm



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