# GPS/Galileo + GLONASS Ceramic Patch Antenna



# APAKN2504-C2G-T

25.0 x 25.0 x 4.0mm RoHS/RoHS II Compliant MSL = 1

#### **FEATURES**

- Gain of 3.6 dBi
- 1575.42 and 1602 MHz bands
- RHCP polarization
- 25.0 x 25.0 x 4.0mm form factor

### **APPLICATIONS**

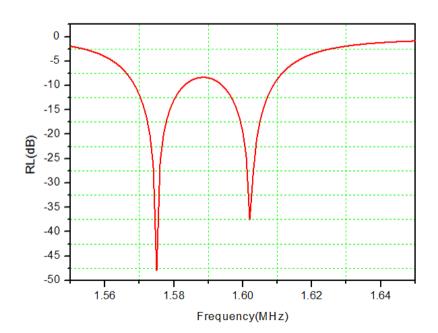
- GPS/GNSS
- Galileo
- GLONASS
- IoT
- Remote technology/monitoring
- M2N

#### **ELECTRICAL SPECIFICATIONS**

Parameters	min	Тур.	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		3.6		dBi	
Application Band: GLONASS		1602±5.0		MHz	(On a 70*70mm Ground Plane)
Return Loss: GLONASS			-10	dB	
Gain (Peak): GLONASS		3.6		dBi	
Polarization Model		RHCP			
Impedance		50		Ω	
Frequency Temperature Coefficient			20	ppm/°C	

<sup>(\*)</sup> 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



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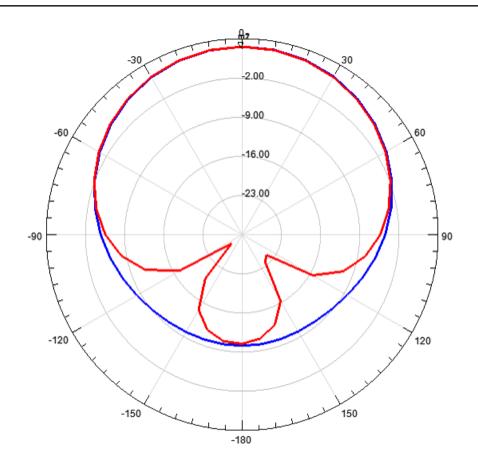
# **GPS/Galileo + GLONASS Ceramic Patch Antenna**



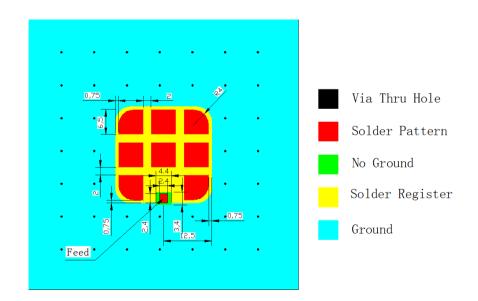
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# **RADIATION PATTERN (X-Y PLANE)**



### LANDING PATTERN





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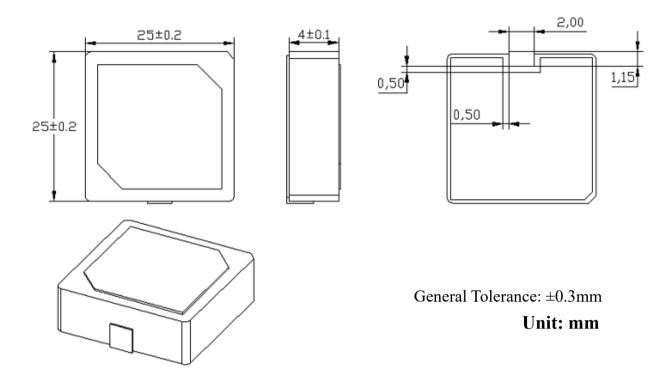
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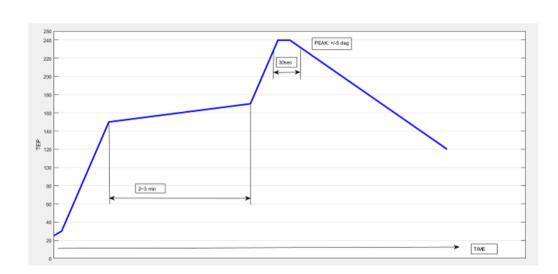
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#### **OUTLINEDIMENSIONS**



### **REFLOW 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 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 piece/package : 1000
Gross Weight : 12 Kg
Carton Dimensions : 37x37x17cm



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