

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

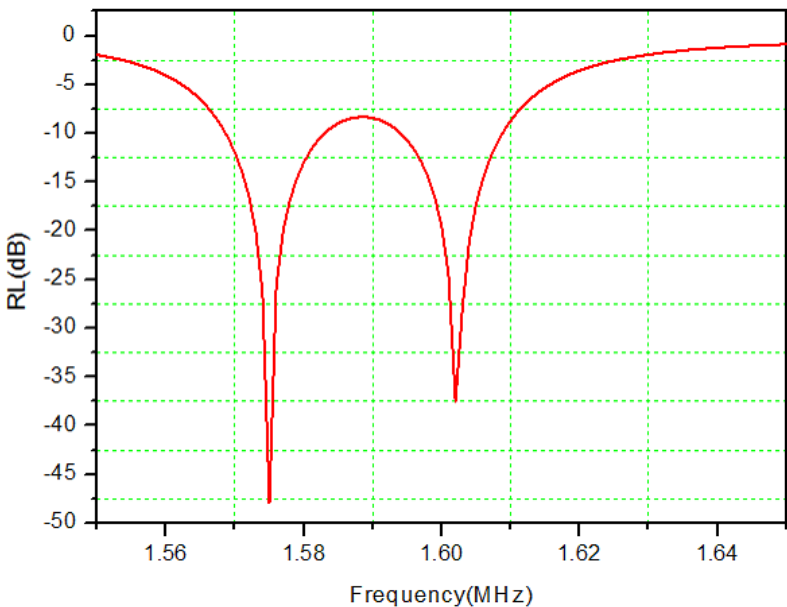
- GPS/GNSS
- Galileo
- GLONASS
- IoT
- Remote technology/monitoring
- M2M

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		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	

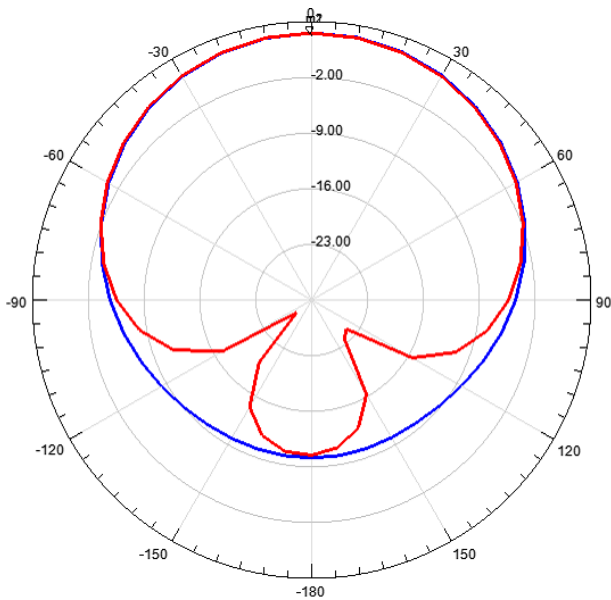
(*) Application environment, including size of the ground plane, proximity to adjacent components, etc., will affect stated performance. Fine tuning might be required when installed on end-customer’s PCB. Abracon offers Antenna Optimization Service, please contact Abracon.

RETURN LOSS CHARACTERISTIC



Return Loss characteristic shows a dual band response for GPS/Galileo & GLONASS

RADIATION PATTERN (X-Y PLANE)

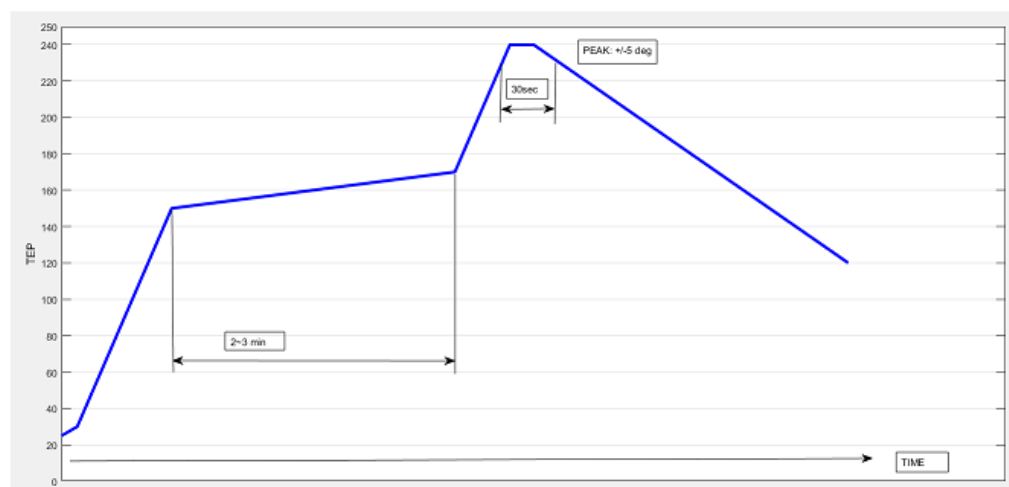


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Technical drawing of a rectangular box. The drawing includes three views: a front view, a side view, and a perspective view. The front view shows a square-like shape with a smaller square cutout in the center. Dimensions are given as 25 ± 0.2 for the width and 25 ± 0.2 for the height. The side view shows a rectangular profile with a width of 4 ± 0.1 . The perspective view shows the box from an isometric angle, highlighting its depth and the cutout. A detailed cross-section view on the right shows the internal structure with dimensions: a top flange width of 2.00 , a central cutout width of 0.50 , a cutout depth of 0.50 , and a bottom flange width of 1.15 . A vertical dimension of 0.50 is also indicated for the cutout depth.

General Tolerance: $\pm 0.3\text{mm}$
Unit: mm

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



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