

APAE Series – Patch Antennas



The APAE Series is a selection of low profile PATCH ANTENNAS covering a wide range of frequency bands including GPS, GLONASS, SDARS, and RFID. These patch antennas offer small-low-profile, easy to mount PCB solutions; for systems requiring a flat & compact antenna.

Abracon APAE Series – Patch Antennas

Key Features:

- Flat, light weight and inexpensive - SMT antenna.
- RoHS Compliant.
- Sizes from 12x12mm to 24x24mm depending on B/W and gain requirements.
- Abracon offers customization of Patch design for best optimization and matching to customer's application.
- Ideally suited for GPS, Satellite Communication Systems, Military and Medical devices
- B/W is optimized in accordance with application requirements; narrow for GPS and RFID and wider for SDARS and GPS + GLONASS

Applications:

Automotive, Navigation, Marine buoys, surveying equipment, Laptops, Healthcare, Medical monitoring, RFID systems for Logistic, Inventory and Retail Management

What APAE series can do for your design.....

The APAE Series of flat patch antennas from Abracon are optimized for application specific requirements

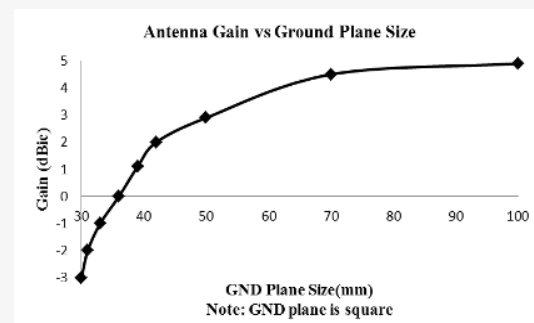
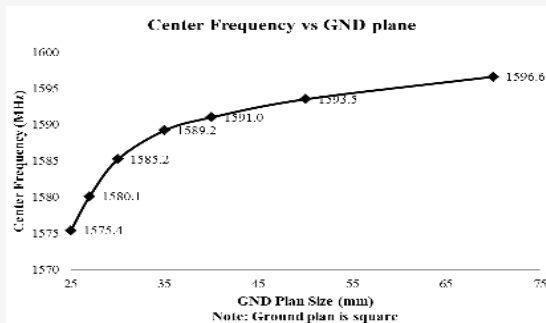
Gain and B/W of the antenna are two key parameters of interest to designers. The volume of the patch and the area of the ground plane are significant design factors. Abracon works with the customer's designer(s) to optimize their in-circuit performance

This optimization or "Tuning" is sometimes needed if the center frequency shifts, or the radiation-pattern-distortion is observed.

ABRACON offers an optimization service for the tuning of the standard Patch Antennas to customer PCBs. Customer selects a standard part, then works with Abracon's Application Eng. Team to optimize the off-the-shelf solution.

Standard APAE product is currently in stock with Abracon's Global Distribution partners at a competitive distribution resale price.

How Ground Plane affects Center Frequency and Gain in Patch Antennas



No.	Abracon Part #	Product center Freq.	Patch Size	Product Application	Bandwidth min	VSWR max	Ground Plane Size
1	APAE868R2540JBDB2-T	868MHz	25x25x4mm	RFID(EU)	3MHz	1.5	70x70mm
2	APAE915R2540ABDB1-T	915MHz	25x25x4mm	RFID(USA)	3MHz	1.5	70x70mm
3	APAE1575R1240ABDD1-T	1575.42MHz	12x12x4mm	GPS	4MHz	1.5	50x50mm
4	APAE1575R1340ABDD6-T	1575.42MHz	13x13x4mm	GPS	5MHz	1.5	50x50mm
5	APAE1575R1540AZDB2F-T	1575.42MHz	15x15x4mm	GPS	5MHz	1.5	50x50mm
6	APAE1575R1820ABDC1-T	1575.42MHz	18x18x2mm	GPS	5MHz	1.5	40x40mm
7	APAE1575R1840AADB7-T	1575.42MHz	18x18x4mm	GPS	5MHz	1.5	40x40mm
8	APAE1575R1840BADB1F-T	1575.42MHz	18x18x4mm	GPS	5MHz	1.5	40x40mm
9	APAE1575R2040ABDD2-T	1575.42MHz	20x20x4mm	GPS	8MHz	1.5	40x40mm
10	APAE1575R2520ABDD7-T	1575.42MHz	25x25x2mm	GPS	15MHz	1.5	70x70mm
11	APAE1575R2540AADBE-T	1575.42MHz	25x25x4	GPS	15MHz	1.5	70x70mm
12	APAE1575R2540BBDB1-T	1575.42MHz	25x25x4mm	GPS	15MHz	1.5	70x70mm
13	APAE1590R2540AKDB1-T	1592-1608MHz	25x25x4mm	GPS+GLONASS	15MHz	1.5	70x70mm
14	APAE2338L2540DDDB1-T	2338MHz	25x25x4mm	SDARS	56MHz	1.5	70x70mm

Links and Resources @ www.abracon.com

In-Stock @ Digikey



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