

ECN/PCN No.: R0490

For Manufacturer

Product Description: 2.4 / 5 GHz Whip Antenna	Abracon Part Number / Part Series: APAMBJ-135	☐ Documentation only ☒ ECN ☐ EOL	☐ Series ☐ Part Number
Affected Revision: A	New Revision: B	Application:	☐ Safety ☒ Non-Safety

Prior to Change:

 ABRACON Date of Issue: May 29 th , 2024 Page (3) of (13)	APAMBJ-135 Wi-Fi/Bluetooth Antenna Module 56 x 09.5mm Abracon Drawing # 454009	RoHS Compliant Revision #: A
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5.0 Ordering information

[APAMBJ-135](#)

Code	Connector Type
S (Standard)	SMA_J3 (M)
A	RP-SMA (M)

Example Configuration

Part Number	Description	Connector Option
APAMBJ-135S	54.4 x 010mm Wi-Fi/Bluetooth Antenna Module with SMA_J3	SMA_J3(M)
APAMBJ-135A	56 x 09.5mm Wi-Fi/Bluetooth Antenna Module with RP-SMA	RP-SMA(M)

After Change:

2.4 / 5 GHz Whip Antenna



APAMBJ-135

[Request Samples](#)
[Check Inventory](#)

09.5 x 56 mm
 RoHS/RoHS II Compliant
 MSL Level = 1

Description

This versatile 2.4/5 GHz monopole whip antenna delivers robust dual-band performance for modern wireless protocols including Wi-Fi®, Bluetooth®, Zigbee®, Thread, and Matter. Featuring a peak gain of 4.0 / 5.2 dBi @ 2.4 / 5 GHz and customizable straight connectors, it enables flexible integration across diverse IoT applications. The antenna supports smart home systems, asset tracking, smart metering, and intelligent lighting installations. As a RoHS-compliant, MSL Level 1 component, it ensures reliable connectivity and manufacturing compatibility for deployments requiring consistent dual-band coverage and adaptable mechanical configurations in both residential and commercial environments.



Features

- 2.4 / 5 GHz Monopole Whip Antenna
- Peak Gain 4.0 / 5.2 dBi @ 2.4 / 5 GHz
- Connector Design for Straight
- Fully Customizable Connectors
- RoHS Compliant | MSL Level 1

Applications

- Bluetooth®/ ZigBee® / Thread / Matter / Wi-Fi
- Smart Home & Smart Building
- Asset Tracking & Telematics
- Smart Metering
- Intelligent Lighting

Ordering Information

Part Number	Description	Connector Option
APAMBJ-135	2.4 / 5 GHz Whip Antenna with SMA (M)	SMA (M)
APAMBJ-135A	2.4 / 5 GHz Whip Antenna with RP-SMA (M)	RP-SMA(M)

Note: Other options not listed may be available upon request via [Abracon online support](#)

Updated test data

Cause/Reason for Change: Updated test data and ordering information

Change Plan

Effective Date: 12/18/2025	Additional Remarks:	
Change Declaration:		
Issued Date:	Issued By:	Issued Department:

12/18/2025	Allan	Engineering
Approval: <i>Saravanan Subramanian</i> Engineering Manager	Approval: <i>Reuben Quintanilla</i> Quality Director	Approval: <i>Ying Huang</i> Purchasing Director
For Abracon EOL only		
Last Time Buy (if applicable):	Alternate Part Number / Part Series:	
Additional Approval:	Additional Approval:	Additional Approval:
Customer Approval (If Applicable)		
Qualification Status: ☐ Approved ☐ Not accepted <i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>		
Customer Part Number:		Customer Project:
Company Name:	Company Representative:	Representative Signature:
Customer Remarks:		