

# Bluetooth/Wi-Fi Antenna Module

## APAMBJ-145

RoHS/RoHS II Compliant



MSL level: Not Applicable

### FEATURES:

- Passive, External Dual band WiFi / Bluetooth antennas Covering WIFI / BLUETOOTH (2.4 GHz) and WIFI (5.1 - 5.9 GHz)
- Gain: 5 dBi max. at 2.4GHz; and 2dBi at 5.8GHz
- VSWR: 2:1
- RoHS/RoHS II compliant

### TYPICAL APPLICATIONS:

- Vehicle WiFi Routers
- WiFi Terminals

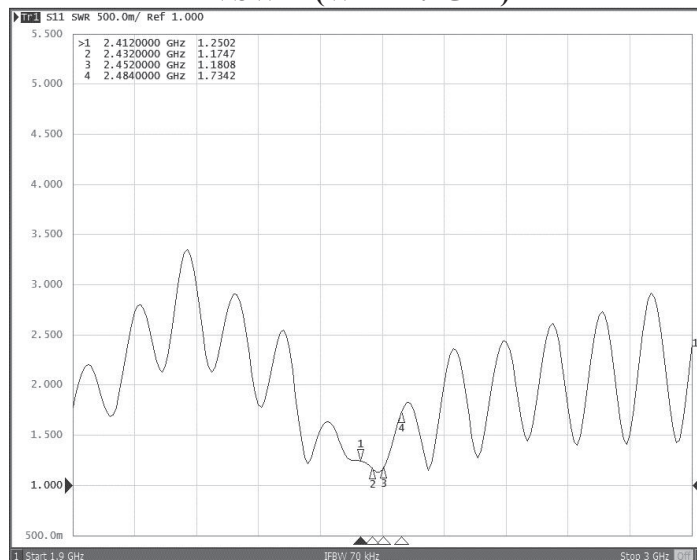
### STANDARD SPECIFICATIONS:

Parameters	Min.	Typ.	Max.	Units	Note
Receiving Frequency		2.4		GHz	Wifi / Bluetooth
	5.1		5.9	GHz	WiFi
VSWR			2:1		
Polarization Model	Horizontal				
Impedance		50		$\Omega$	
Gain			5	dBi	@ 2.4GHz
			2	dBi	@ 5.8 GHz
Operating Temperature	-40		+85	$^{\circ}\text{C}$	

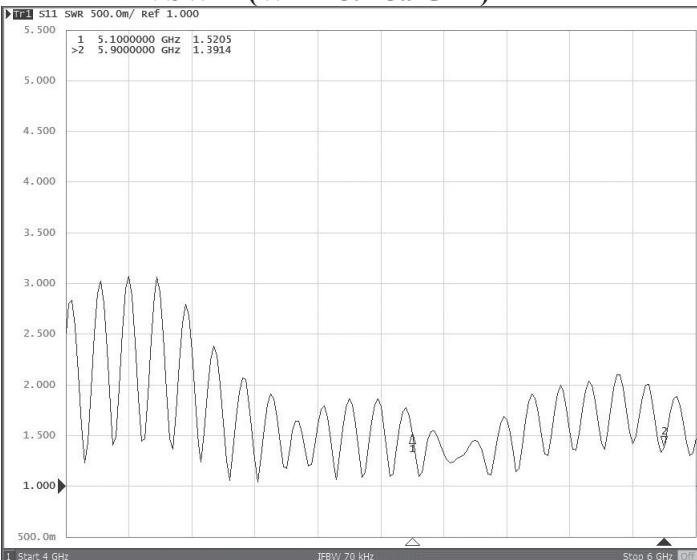
### MEASUREMENTS:

Tested with 1m cable length on 30x30cm ground plane

VSWR (Wi-Fi 2.4GHz)



VSWR (Wi-Fi 5.1-5.9GHz)



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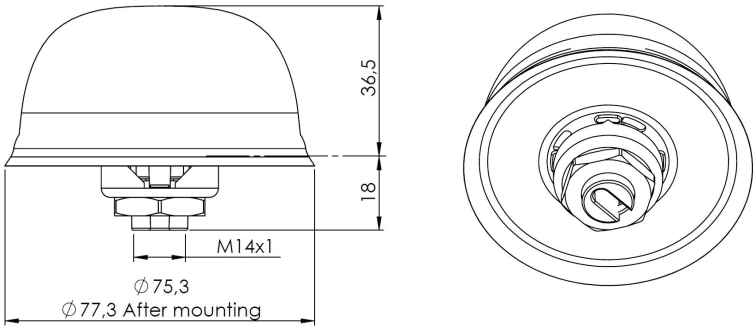
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Ø77.3 x 36.5 mm

## OUTLINE DIMENSION:



Parameters	Description
RF Connector	SMA Male
Weight	220g
Cable Type	RG174U
Cable Length	250cm
Lid	ABS
Base	Zamak
Gasket	TPE
Color	Black

## PACKAGING:

Each antenna is packed individually in a 140x120x81mm box.



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## CAUTION:

- (1) Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- (2) Do not expose the component to open flame.
- (3) This specification applies to the functionality of the component as a single unit. Please insure the component is thoroughly evaluated in the application circuit.

## NOTE:

- 1) The parts are manufactured in accordance with this specification. If other conditions and specifications which are required for this specification, please contact ABRACON for more information.
- 2) ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.
- 3) In no case shall ABRACON be liable for any product failure from in appropriate handling or operation of the item beyond the scope of this specification.
- 4) When changing your production process, please notify ABRACON immediately.
- 5) ABRACON Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. ABRACON's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from ABRACON Corporation is required. Please contact ABRACON Corporation for more information.
- 6) All specifications and Marking will be subject to change without notice.

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ABRACON IS  
ISO9001:2008  
CERTIFIED



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