

ECN/PCN No.: 3471

For Manufacturer			
Product Description: 2.4GHz/5GHz Dual Wi-Fi External Whip Antenna		Abracon Part Number / Part Series: APAMS-121	
Affected Revision: I.R.		New Revision: A	
		Application	
<input type="checkbox"/> Series <input checked="" type="checkbox"/> Part Number <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety			
Changes:			
1. Specifications – Electrical, Mechanical, Environmental 2. Product Dimensions 3. VSWR 4. Radiation Characteristics			
Cause/Reason for Change: Standard product review			
Change Plan	Effective Date: 12/07/2019	Additional Remarks: N/A	
Change Declaration: The operating/storage temperature of the product has been changed which may affect the working or storage conditions.			
Issued Date: 12/07/2019		Issued By: Roshni Prasad	
		Issued Department: Engineering	
Approval: Syed Raza Engineering VP		Approval: Reuben Quintanilla Quality Manager	
		Approval: Ying Huang Purchasing Director	
For Abracon EOL only			
Last Time Buy (if applicable): N/A		Alternate Part Number / Part Series: N/A	
Additional Approval: N/A		Additional Approval: N/A	
		Additional Approval: N/A	
Customer Approval (If Applicable)			
Qualification Status:			
<input type="checkbox"/> Approved <input type="checkbox"/> Not accepted Note: It is considered approved if there is no feedback from customer 1 month after ECN/PCN is released			
Customer Part Number:		Customer Project:	
Company Name:		Company Representative:	
		Representative Signature:	
Customer Remarks:			

Dual Band Wifi/Bluetooth Antenna

APAMS-121

RoHS/RoHS II compliant

Lead in copper alloy exemption (6c); and Lead in glass exemption (7c-1)



86.0 x Ø10.0mm

MSL level: Not Applicable

FEATURES:

- High Reliability/ Sensitivity
- Compact Size
- Easy to install
- ROHS Compliant

TYPICAL APPLICATIONS:

- Bluetooth
- WiFi 2.4GHz and 5GHz
- Routers

ELECTRICAL SPECIFICATIONS:

Parameter	Specification			Units	Note
	Min	Typ	Max		
Frequency Range	2.4		2.5	GHz	
	5.0		6.0		
VSWR			2.5		
Polarization	Vertical				
Impedance		50		Ω	
Gain			2.5	dBi	
Azimuth	Omni-directional				
Power Handling Capacity	50			W	
Lighting Protection	Direct Current earth				

MECHANICAL SPECIFICATION:

Parameter	Specification	Note
Connector	SMA-RP	
Cable Type	RG-178	Inside the enclosure, 50 Ω
Radiator	Cuprum	
Enclosure	TPE	
Base	PBT + PC	
Radome Color	Black	

ENVIRONMENTAL SPECIFICATION:

Parameter	Specification	Note
RoHS Compliant	Yes	
MSL	N/A	
Operating temperature	-40 °C to +60 °C	
Storage temperature	-20 °C to +40 °C	

Dual Band Wifi/Bluetooth Antenna

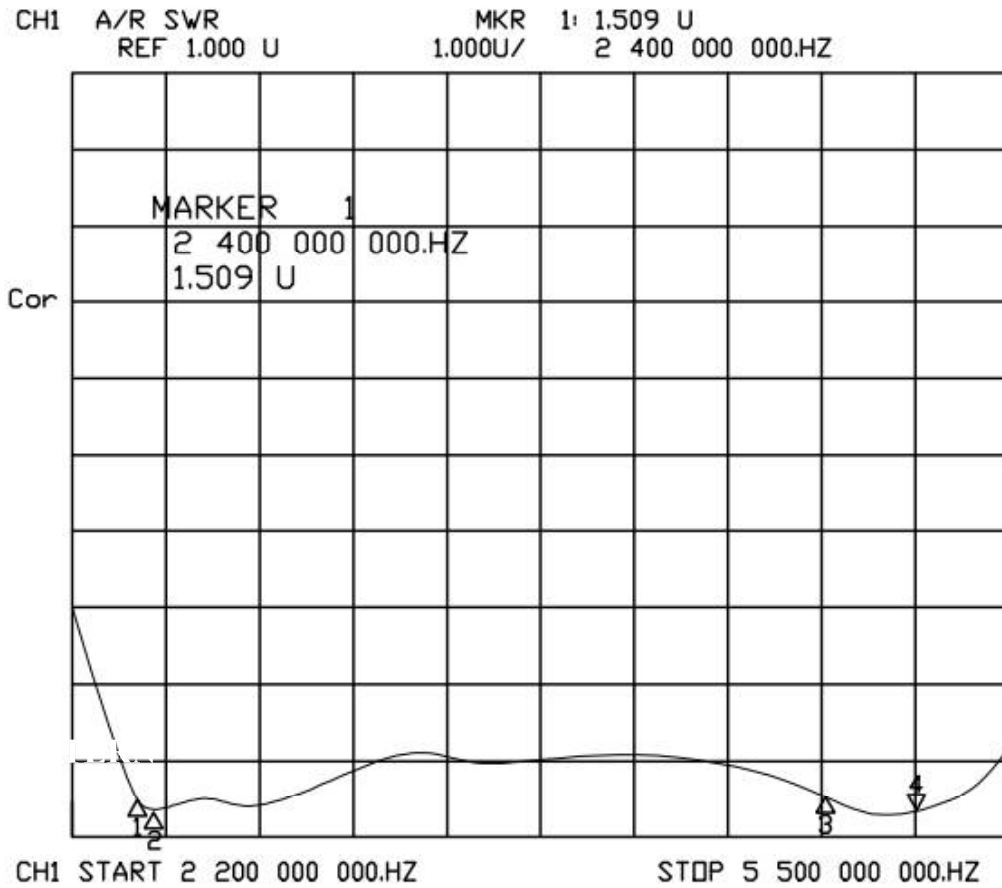
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VSWR



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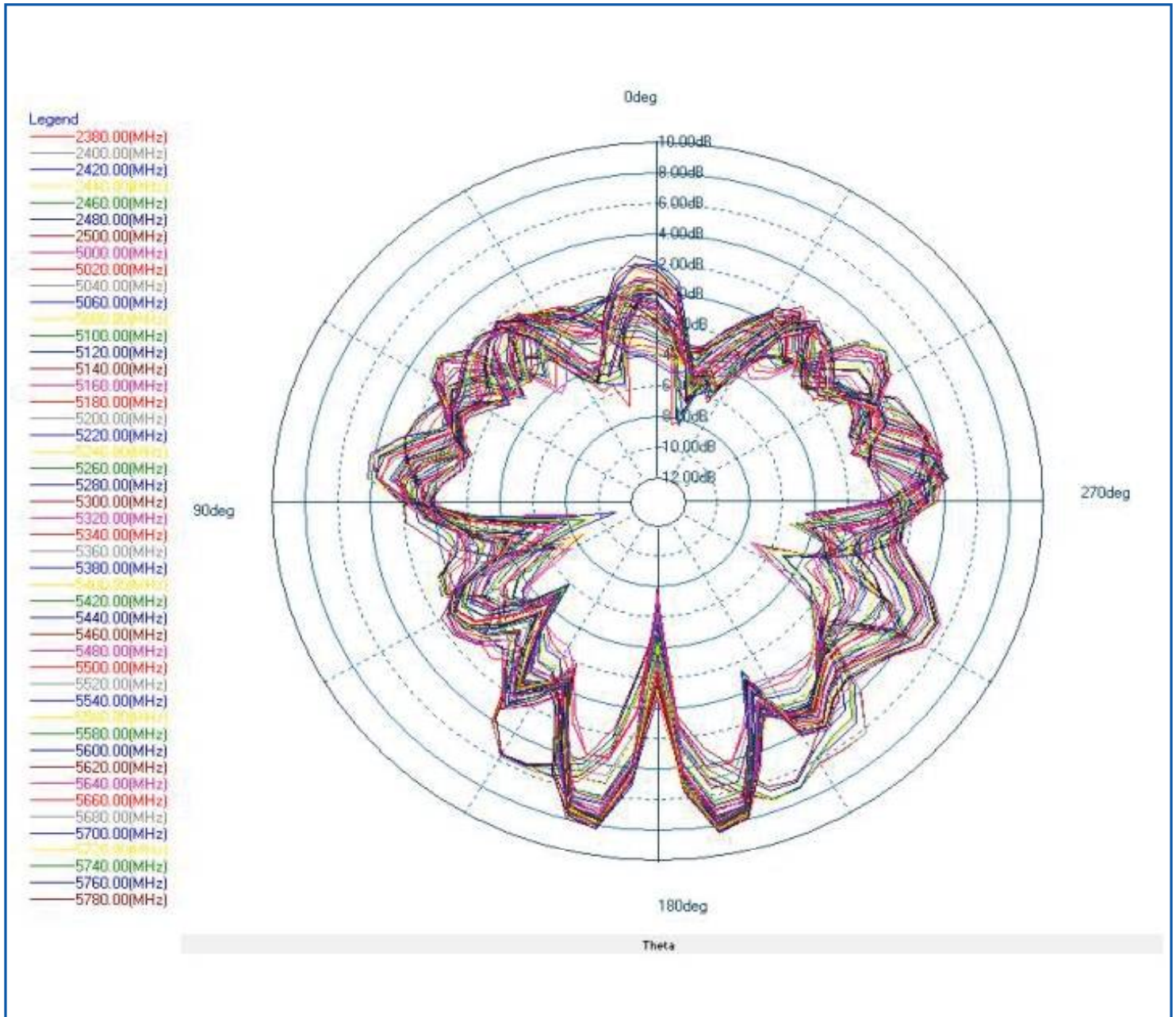
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➤ RADIATION PATTERN



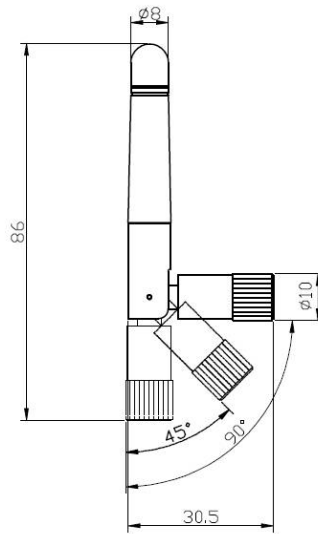
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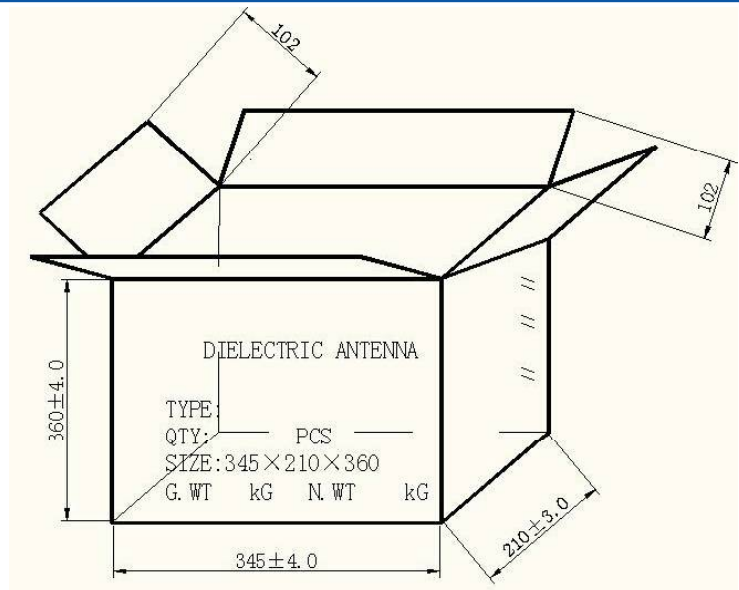
OUTLINE DRAWING:



Unit: mm

PACKAGING:

Package Type	Quantity
Plastic bag	1 pcs/ Plastic bag
Outer Box	1000 pcs/box



Outer box

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.

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