Engineering/Process Change Notice

ECN/PCN No.: R0558

For Manufacturer			
Product Description: Wi-Fi 6/6E/7 External Whip Antenna	**Abracon Part Number / Part Series:** AANE-WH-0151	☐ Documentation only ☒ ECN ☐ EOL	☐ Series ☐ Part Number
Affected Revision: A	**New Revision:** B	**Application:**	☐ Safety ☒ Non-Safety

Prior to Change:

AANE-WH-0151 Request Samples Check Inventory **196.3 x 21.5 mm** RoHS/RoHS II Compliant **MSL Level = N/A**

Electrical Specification

Parameter	Specification			Unit
Operating Frequency	2400-2500	5150-5850	5925-7125	MHz
VSWR (Typ.)	< 2.0			
Return Loss (Typ.)	> 10			dB
Peak Gain	2.6	4.7	4.3	dBi
Efficiency (Max.)	79	64	55	%
Efficiency (Avg.)	74	60	54	%
Impedance	50			Ω
Polarization	Linear			
Radiation Pattern (Azimuth)	Omni-directional			
Input Power (Ambient 25°C)	5			W

Please note: All measurement data is based on the standard configuration (conducted in free space unless otherwise specified).

Mechanical Specification

Parameter	Specification
Dimensions	196.3 x 21.5 mm
Material	ABS / PC / PBT (1)
Recommended Torque for Mounting	0.565 N·m
Color	Black
Antenna Type	Whip (Blade) (Dipole)
RF Connector (2)	RP-SMA(M)

(1): UV Resistant optional
(2): RF Connector optional

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
IP Rating (1)	IP65
RoHS Complaint	Yes

(1): IP Rating optional

After Change:

AANE-WH-0151 Request Samples Check Inventory **196.3 x 21.5 mm** RoHS/RoHS II Compliant **MSL Level = 1**

Electrical Specification

Parameter	Specification			Unit
Operating Frequency	2400-2500	5150-5850	5925-7125	MHz
VSWR (Typ.)	< 2.0			:1
Peak Gain	2.6	4.7	4.3	dBi
Efficiency (Max.)	79	64	55	%
Efficiency (Avg.)	74	60	54	%
Impedance	50			Ω
Polarization	Linear			-
Radiation Pattern (Azimuth)	Omni-directional			-
Input Power (Ambient 25°C)	5			W

Please note: All measurement data is based on the standard configuration (conducted in free space unless otherwise specified).

Mechanical Specification

Parameter	Specification
Dimensions	196.3 x 21.5 mm
Housing Material	ABS / PC / PBT (1)
Recommended Torque for Mounting	0.565 N·m
Color	Black
Antenna Type	Whip (Blade) (Dipole)
RF Connector (2)	RP-SMA(M)

(1): UV Resistant optional
(2): RF Connector optional

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
IP Rating (1)	IP65
Moisture Sensitivity Level	1
RoHS Complaint	Yes

(1): IP Rating optional

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Engineering/Process Change Notice

Cause/Reason for Change: Updated MSL level		
Change Plan		
Effective Date: 10/05/2026	**Additional Remarks:**	
Change Declaration:		
Issued Date: 10/05/2026	**Issued By:** Allan	**Issued Department:** Engineering
Approval: *Saravanan Subramanian* Engineering Director	**Approval:** *Reuben Quintanilla* Quality Director	**Approval:** *Ying Huang* 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 *Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.*		
Customer Part Number:	**Customer Project:**	
Company Name:	**Company Representative:**	**Representative Signature:**
Customer Remarks:		

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