

# **Engineering/Process Change Notice**

## ECN/PCN No.:

	For Manufacture	ſ		
Product Description:	Abracon Part Number / Par		⊠ Series	
Surface Mount WLAN Antenna	AMCA72-2R860G-02	F	☐ Part Number	
Affected Revision:	New Revision:	Application:	☐ Safety	
Rev A			□ Non-Safety	
Prior to Change:				
After Change:				
Cause/Reason for Change: FACTORY	EOL			
	Change Plan			
Effective Date: Immediately	Additional Remarks:			
Change Declaration:				
Issued Date: 7/7/2020	Issued By:  JUSTIN FAHEY		Issued Department:  MARKETING - PLM	
Approval:	Approval:	Approval:		
Syed Raza Engineering VP	Reuben Quintanilla Quality Director		Huang ng Director	
Linginieering VF	•		ng Director	
Last Time Buy (if applicable): N/A	For Abracon EOL o	nty • Part Number / Part Series:		
, , , ,		N/A	N/A	
Additional Approval:	Additional Approval:	Additional Approv	/al:	
	Customer Approval (If Ap	pplicable)		
Qualification Status:	☐ Approved ☐ Not acco			
Note: It is considered approved if the	· · · · · · · · · · · · · · · · · · ·		N is released.	
Customer Part Number:	Customo	er Project:		
Company Name:	Company Representative:	Representative Si	Representative Signature:	
Customer Remarks:	1	ı		

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# Surface Mount WiMAX Antenna (2860MHz)

## AMCA72-2R860G-02F-T



RoHS / RoHS II Compliant

7.0x 2.0 x 1.0mm

## Moisture Sensitivity Level (MSL) - MSL = 1

### **FEATURES:**

- 2860MHz, Bandwidth ≥200MHz
- Suitable for RoHS compliant reflow
- Gain 2.6dBi (Peak) / 0.7dBi (Average)
- VSWR <2:1
- Small size 7.0 x 2.0 x 1.0mm (0.275 x 0.078 x 0.039inch)
- Non Ground Mounting type.
- Power Handling 3W Max
- Matched to 50 Ohm

### > APPLICATIONS:

- Wireless application WiMax bands.
- User Equipments (UE), e.g. dongles, modems
- User Equipments applications covering 2860MHz WiMax bands.
- Alternative to larger PCB solution

### > STANDARD SPECIFICATIONS

## **Maximum Ratings**

Item	Value		
Operating Temperature Range	-40°C to + 85°C		
Storage Temperature Range	-10°C ~ +40 and RH °C 70% (Max.)		

#### **Electrical Characteristics**

Item	Spec
Frequency	2860MHz
Bandwidth	≥200 MHz
Peak Gain	2.7 dBi typ.
Average Gain	1.0 dBi typ
VSWR	<2:1
Impedance	50 Ohm
Power Capability	3W max

## PART IDENTIFICATION:

# AMCA72-2R860G-02F-T4

## Packaging

Blank: Bulk or Cut Tape T4: T/R 4000pcs per reel



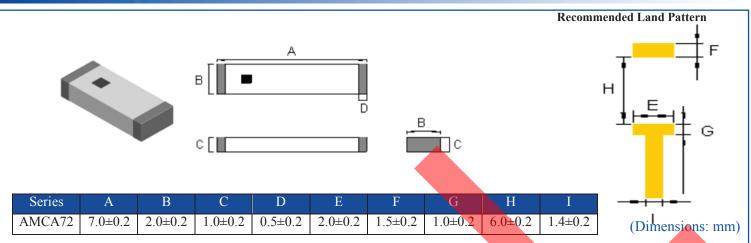
# Surface Mount WLAN Antenna (2860MHz)

AMCA72-2R860G-02F-T

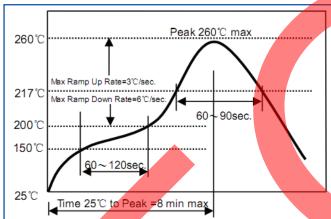


7.0x 2.0 x 1.0mm

### **OUTLINE DIMENSIONS:**



### **REFLOW PROFILE:**

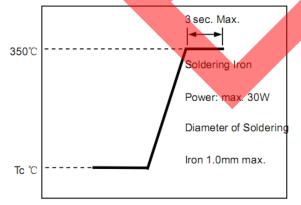


- Preheat condition: 150 ~200 /60~120°C sec.
- Allowed time above 217°C: 60~90sec.
- Max temp: 260°C
- Max time at max temp: 10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Allowed Reflow time: 2x max

[Note: The reflow profile in the above table is only for qualification and is not meant to specify board assembly profiles. Actual board assembly profiles must be based on the customer's specific board design, solder paste and process, and should not exceed the parameters as the Reflow profile shows.]

## MANUAL SOLDERING

Pre-heating Temperature: 120°C, 60°C ~ 300 sec.



- Iron soldering power: Max.30W.
- Pre-heating: 150 / 60 sec. °C.
- Soldering Tip temperature: 350 Max. °C.
- Soldering time: 3 sec Max.
- Solder paste: Sn/3.0Ag/0.5Cu.
- Max 1 times for iron soldering.
- Soldering Temperature: 340°C±5°C, 5sec max per each terminal.

[Note: Take care not to apply the tip of the soldering iron to the terminal electrodes.]



REVISED: 05.17.2017

# Surface Mount WLAN Antenna (2860MHz)

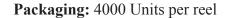
AMCA72-2R860G-02F-T

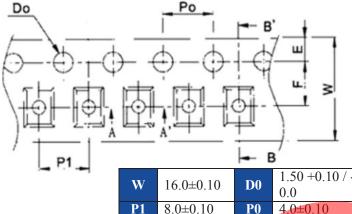




7.0x 2.0 x 1.0mm

### **TAPE & REEL:**

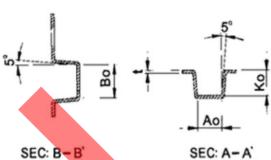




 $1.75\pm0.10$ 

 $7.50\pm0.15$ 

 $7.50\pm0.10$ 

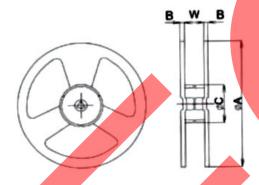


	•
1.50 +0.10 / -	
0.0	
4.0±0.10	
1.40±0.10	
2.30±0.10	
0.3±0.05	

K0

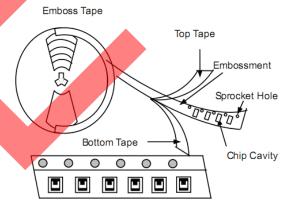
A0

#### **Reel Dimensions**



Type			Dimensions (mm)		
Type	Spec		W	C	В
AMCA72	13"*16mm	330±1	16.5±0.2	100±0.5	2.3±0.2
				•	

## Mounting Direction of Tape on Reel



Note: The sprocket holes are to the right as the tape is pulled toward the user.

(Dimensions: mm)

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