

Engineering/Process Change Notice

ECN/PCN No.:

	For Manufacturer			
Product Description: Surface Mount WLAN Antenna	Abracon Part Number / Part Series: AMCA72-2R860G-02F		⊠ Series □ Part Number	
Affected Revision: Rev A	New Revision:	Application:	□ Safety □ Non-Safety	
Prior to Change:	1			
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: Syed Raza	Approval: Reuben Quintanilla		Huang	
Engineering VP	Quality Director	Purchasin	g Director	
	For Abracon EOL only			
Last Time Buy (if applicable): N/A	Alternate Part Number / Part Series: N/A			
Additional Approval:	Additional Approval:	Additional Approv	al:	
	Customer Approval (If Applicable))		
Qualification Status:				
\Box Approved \Box 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 Sig	gnature:	
Customer Remarks:				

Surface Mount WiMAX Antenna (2860MHz)

AMCA72-2R860G-02F-T

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

STANDARD SPECIFICATIONS

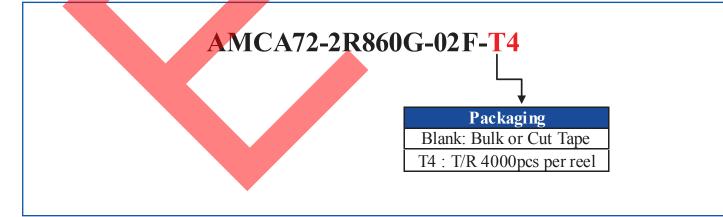
Maximum Ratings

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

Electrical Characteristics

tinear Characteristics		
Item	Spec	
Frequency	2860MHz	
Bandwidth	$\geq 200 \mathrm{MHz}$	
Peak Gain	2.7 dBi typ.	
Average Gain	1.0 dBi typ	
VSWR	<2:1	
Impedance	50 Ohm	
Power Capability	3W max	

PART IDENTIFICATION:





5101 Hidden Creek Lane Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sale visit: www.abracon.com



7.0x 2.0 x 1.0mm

APPLICATIONS:

• Wireless application - WiMax bands.

(Pb)

- User Equipments (UE), e.g. dongles, modems
- User Equipments applications covering 2860MHz WiMax bands.

RoHS / RoHS II Compliant

• Alternative to larger PCB solution

Surface Mount WLAN Antenna (2860MHz)

AMCA72-2R860G-02F-T

(Pb) RoHS / RoHS II Compliant

7.0x 2.0 x 1.0mm

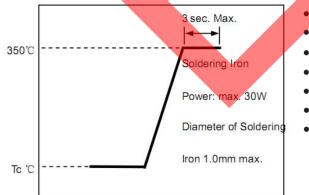
OUTLINE DIMENSIONS: Recommended Land Pattern n сΓ Series B D E Η A С AMCA72 7.0±0.2 2.0 ± 0.2 1.0 ± 0.2 0.5 ± 0.2 2.0 ± 0.2 1.5 ± 0.2 1.0 ± 0.2 6.0 ± 0.2 1.4 ± 0.2 (Dimensions: mm) **REFLOW PROFILE:** Preheat condition: 150 ~200 /60~120°C sec. Peak 260°C max Allowed time above 217°C: 60~90sec. 260°C • • Max temp: 260°C • Max time at max temp: 10sec. Max Ramp Up Rate=3°C/sec 217°C • Solder paste: Sn/3.0Ag/0.5Cu Max Ramp Down Rate=6°C/sec 60 90sec. Allowed Reflow time: 2x max 200°C 150°C 60~120sec 25°C

Time 25℃ to Peak =8 min 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.]



5101 Hidden Creek Lane Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sale visit: www.abracon.com

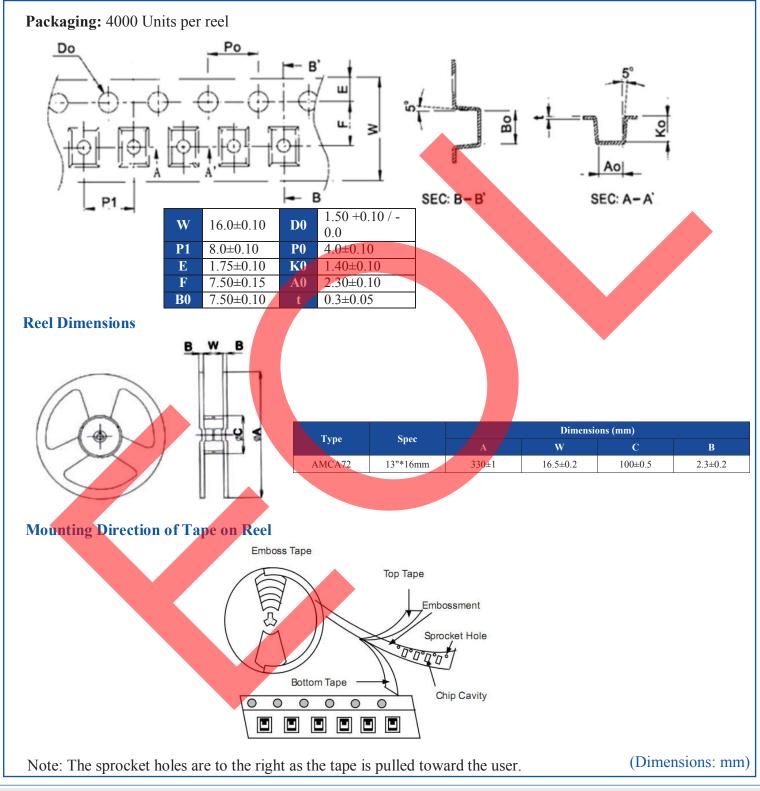
Surface Mount WLAN Antenna (2860MHz)

AMCA72-2R860G-02F-T

(Pb) RoHS / RoHS II Compliant

7.0x 2.0 x 1.0mm

TAPE & REEL:



ATTENTION: 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.



5101 Hidden Creek Lane Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sale visit: www.abracon.com REVISED: 05.17.2017 ABRACON IS ISO9001-2008 CERTIFIED