

Engineering/Process Change Notice

ECN/PCN No.:

	For Manufacturer			
Product Description:	Abracon Part Number / Part	Series:	⊠ Series	
Surface Mount WLAN Antenna	AMCA52-2R780G-S1F		☐ Part Number	
Affected Revision:	New Revision:	Application:	☐ Safety	
Rev A			☐ Non-Safety	
Prior to Change:				
After Change:				
_				
Carra (Danasa fan Channa FACTOR)	FOL			
Cause/Reason for Change: FACTORY	EOL			
	Change Plan			
Effective Date:	Additional Remarks:			
Immediately	112213313131131131			
Change Declaration:				
Issued Date: 7/7/2020	Issued By:	Issued Departmen		
	JUSTIN FAHEY	· · · · · · · · · · · · · · · · · · ·	TNG - PLM	
Approval: Syed Raza	Approval: Reuben Quintanilla	Approval:	Huang	
Engineering VP	Quality Director		ng Director	
3 3	For Abracon EOL on			
Last Time Buy (if applicable): N/A Alternate Part Number / Part Series:				
, , , , ,		N/A	N/A	
Additional Approval:	Additional Approval:	Additional Approv	/al:	
	Customer Approval (If App	olicable)		
Qualification Status:	☐ Approved ☐ Not accep	atad		
Note: It is considered approved if the			N is released	
Customer Part Number:	Customer	*	Tis receased.	
Castonici i di Citalibei.	Customer			
Company Name:	Company Representative:	Representative Si	gnature:	
Company manus	company representatives	itopi eseritative si	J	
Customer Remarks:				

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Surface Mount WiMAX Antenna (2780MHz)

AMCA52-2R780G-S1TF



RoHS / RoHS II Compliant

5.2 x 2.1 x 1.0mm

Moisture Sensitivity Level (MSL) - MSL = 1

FEATURES:

- 2780MHz, Bandwidth ≥200MHz
- Suitable for RoHS compliant reflow
- Gain 2.5dBi (Peak) / 0.5dBi (Average)
- VSWR <2:1
- Small size 5.2 x 2.1 x 1.0mm (0.204 x 0.082 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 2780MHz 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	2780MHz
Bandwidth	≥200 MHz
Peak Gain	2.5 dBi typ.
Average Gain	0.5 dBi typ
VSWR	<2:1
Impedance	50 Ohm
Power Capability	3W max

PART IDENTIFICATION:

AMCA52-2R780G-S1F-T4

Packaging

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



REVISED: 05.17.2017

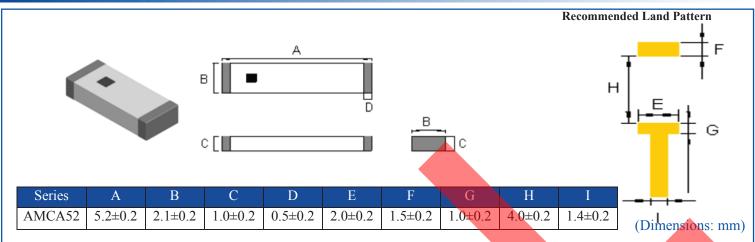
Surface Mount WLAN Antenna (2780MHz)

AMCA52-2R780G-S1TF

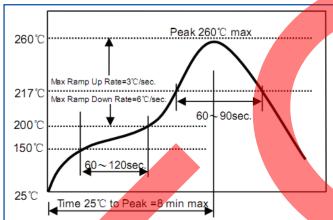


5.2 x 2.1 x 1.0mm

OUTLINE DIMENSIONS:



REFLOW PROFILE:

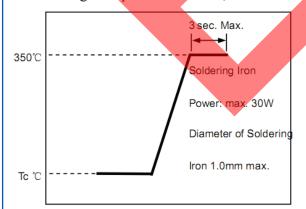


- Preheat condition: 150 ~200 /60~120°C sec.
- Allowed time above 217°C: 60~90sec.
- Max temp: 260°C
- Max time at max temp: 10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Allowed Reflow time: 2x max

[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.]



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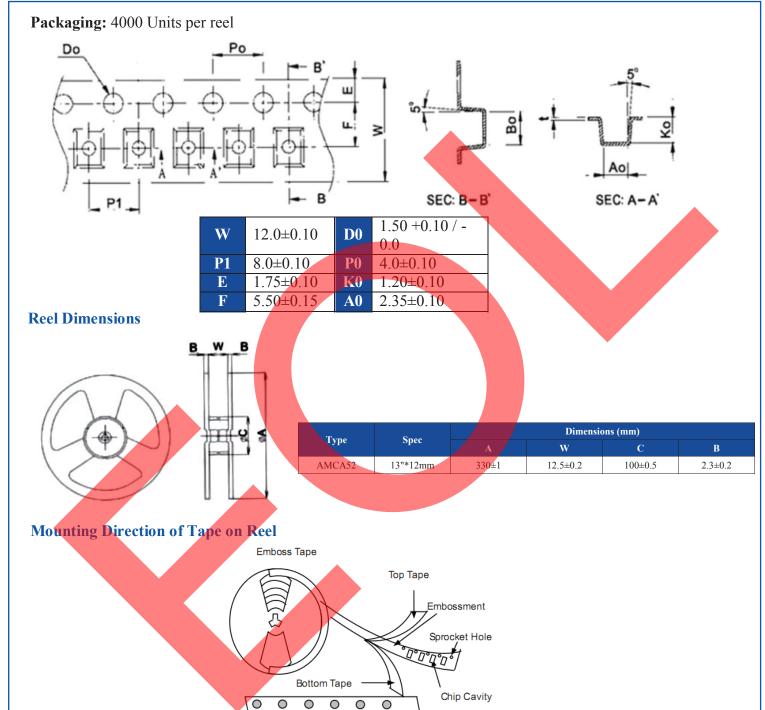
Surface Mount WLAN Antenna (2780MHz)

AMCA52-2R780G-S1TF



5.2 x 2.1 x 1.0mm





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



REVISED: 05.17.2017

(Dimensions: mm)

ABRACON IS ISO9001-2008 CERTIFIED

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

authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.