

Engineering/Process Change Notice

ECN/PCN No.:

	For Manufacturer			
Product Description:	Abracon Part Number / Part S	Series:	⊠ Series	
Surface Mount WLAN Antenna	AMCA52-2R710G-S1F		☐ 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:	Additional Remarks:			
Immediately				
Change Declaration:				
Issued Date:	Issued By:		Issued Department:	
7/7/2020	JUSTIN FAHEY		Marketing - PLM	
Approval: Syed Raza	Approval:	Approval:	Lluana	
Engineering VP	Reuben Quintanilla Quality Director		Huang ng Director	
3 3 -	For Abracon EOL onl			
Last Time Buy (if applicable):N/A		Part Number / Part Series:		
, , , , ,		N/A	N/A	
Additional Approval:	Additional Approval:	Additional Approv	al:	
	Customer Approval (If App	licable)		
Qualification Status:				
Note: It is considered approved if the		mer 1 month after ECN/PCN	I is released.	
Customer Part Number:	Customer	Project:		
Company Name:	Company Representative:	Representative Si	Representative Signature:	
Customer Remarks:	1	1		

Form #7020 Rev. E Effective: 04/20/2020 Page 1 of 1

Surface Mount WiMAX Antenna (2710MHz)

AMCA52-2R710G-S1F-T



RoHS / RoHS II Compliant

5.2 x 2.1 x 1.0mm

Moisture Sensitivity Level (MSL) - MSL = 1

FEATURES:

- 2710MHz, 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 2710MHz 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	2710MHz
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:

AMCA52-2R710G-S1F-T4

Packaging

Blank: Bulk or Cut Tape

T4: T/R 4000pcs per reel



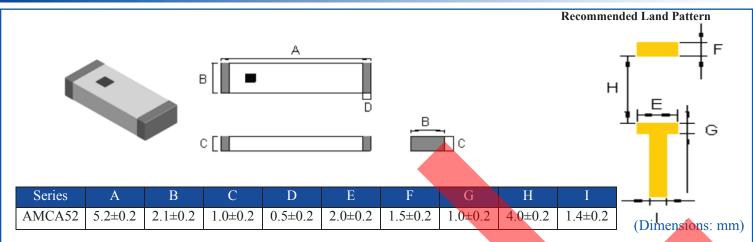
Surface Mount WLAN Antenna (2710MHz)

AMCA52-2R710G-S1F-T

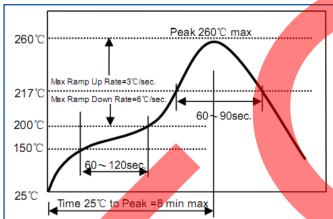


5.2 x 2.1 x 1.0mm

OUTLINE DIMENSIONS:



REFLOW PROFILE:

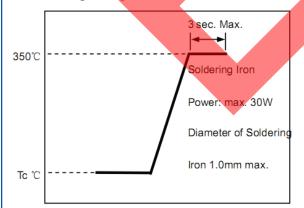


- Preheat condition: 150 ~200 /60~120°C sec.
- Allowed time above 217°C: 60~90sec.
- Max temp: 260°C
- Max time at max temp: 10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Allowed Reflow time: 2x max

[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.]

www.abracon.com



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

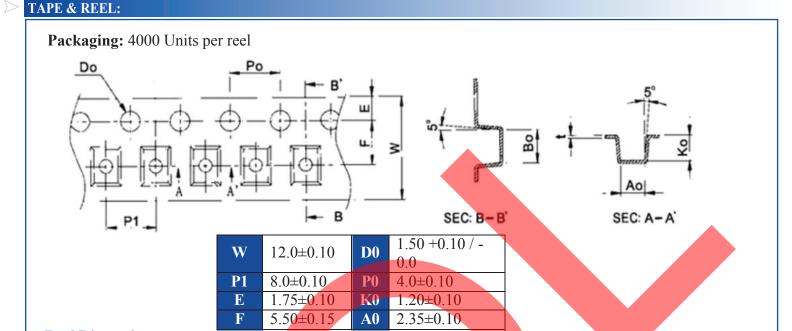
ABRACON IS ISO9001-2008 CERTIFIED

Surface Mount WLAN Antenna (2710MHz)

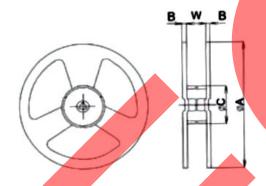
AMCA52-2R710G-S1F-T



5.2 x 2.1 x 1.0mm

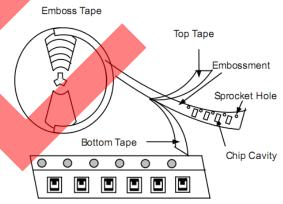


Reel Dimensions



Trus	Spec		Dimensions (mm)			
Type				W	C	В
AMCA52	13"*12mm	330±1		12.5±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)

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.

