Engineering/Process Change Notice

ECN/PCN No.:

For Manufacturer		
Product Description: Surface Mount WLAN Antenna	**Abracon Part Number / Part Series:** AMCA52-2R350G-S1F	☒ Series ☐ Part Number
Affected Revision: Rev A	**New Revision:**	**Application:** ☐ Safety ☐ Non-Safety
Prior to Change:		
After Change:		
Cause/Reason for Change: FACTORY EOL		

Change Plan		
Effective Date: Immediately	**Additional Remarks:**	
Change Declaration:		
Issued Date: 7/7/20	**Issued By:** *Justin Fahey*	**Issued Department:** Marketing - PLM
Approval: *Syed Raza* Engineering VP	**Approval:** *Reuben Quintanilla* Quality Director	**Approval:** *Ying Huang* Purchasing Director

For Abracon EOL only		
Last Time Buy (if applicable):N/A	**Alternate Part Number / Part Series:N/A**	
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:		

Surface Mount WCS/WiMAX/LTE Antenna (2350MHz)



5.2 x 2.1 x 1.1mm

AMCA52-2R350G-S1F-T

RoHS / RoHS II Compliant

Moisture Sensitivity Level (MSL) – MSL = 1

FEATURES:

- 2350MHz, Bandwidth ≥150MHz
- Suitable for RoHS compliant reflow
- Gain 2.5dBi (Peak) / 0.5dBi (Average)
- VSWR <2:1
- Small size – 5.2 x 2.1 x 1.1mm (0.204 x 0.082 x 0.039inch)
- Non Ground Mounting type.
- Power Handling 3W Max
- Matched to 50 Ohm.

APPLICATIONS:

- Wireless application - WCS Band, LTE Band 40, and WiMax bands.
- User Equipments (UE), e.g. dongles, modems
- WCS Band supporting Fixed, Mobile, Computing, Cellular Telephone, Radiolocation, and Satellite Communications.
- User Equipments (EU) covering 2300MHz LTE TDD (Band 40)
- Alternative to larger PCB solution

STANDARD SPECIFICATIONS

Maximum Ratings

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

Electrical Characteristics

Item	Spec
Frequency	2350MHz
Bandwidth	≥150 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:

AMCA52-2R350G-S1F-T4

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

EOL

ABRACON LLC
The Power of Linking Together

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

Surface Mount WLAN Antenna (2350MHz)

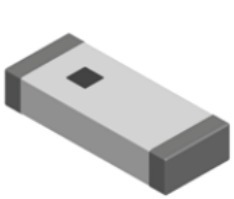
AMCA52-2R350G-S1F-T

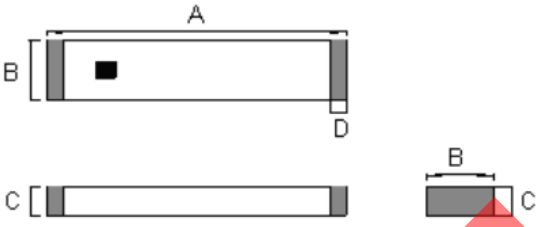
RoHS / RoHS II Compliant



5.2 x 2.1 x 1.1mm

OUTLINE DIMENSIONS:





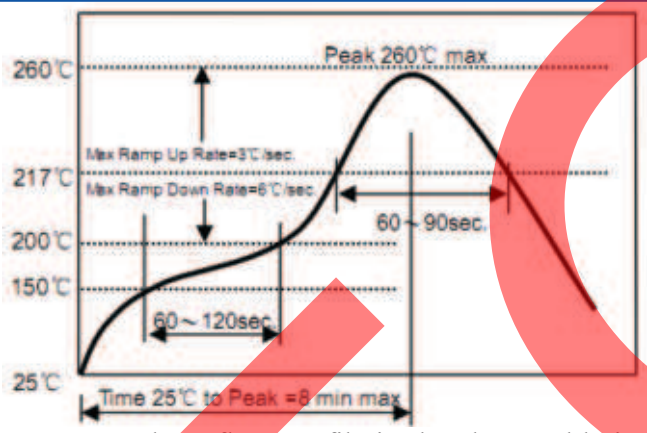
Recommended Land Pattern



Series	A	B	C	D	E	F	G	H	I
AMCA52	5.2±0.2	2.1±0.2	1.1±0.2	0.5±0.2	2.0±0.2	1.5±0.2	1.0±0.2	4.0±0.2	1.4±0.2

(Dimensions: mm)

REFLOW PROFILE:

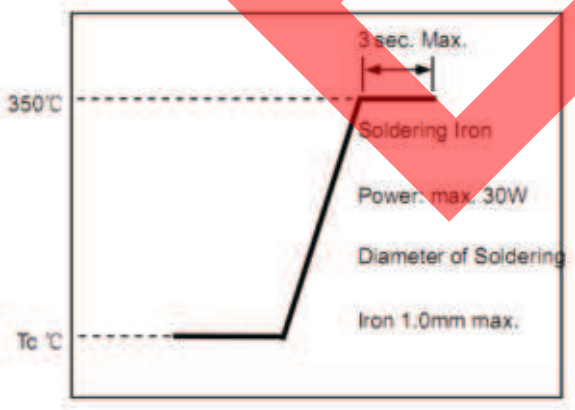


- Preheat condition: 150 ~200 /60~120ºC sec.
- Allowed time above 217ºC: 60~90sec.
- Max temp: 260ºC
- Max time at max temp: 10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Allowed Reflow time: 2x max

[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: 120ºC, 60ºC ~ 300 sec.



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

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

LOL

ABRACON LLC
The Power of Linking Together
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

Surface Mount WLAN Antenna (2350MHz)

AMCA52-2R350G-S1F-T

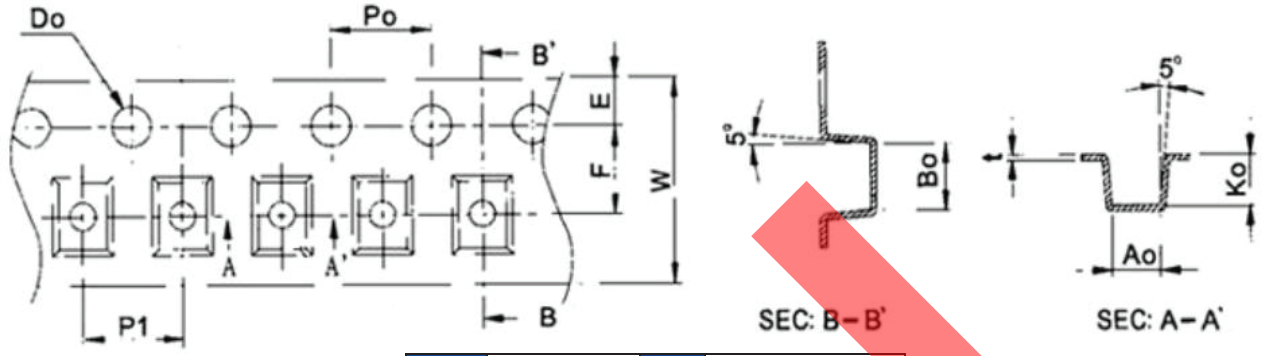
RoHS / RoHS II Compliant



5.2 x 2.1 x 1.1mm

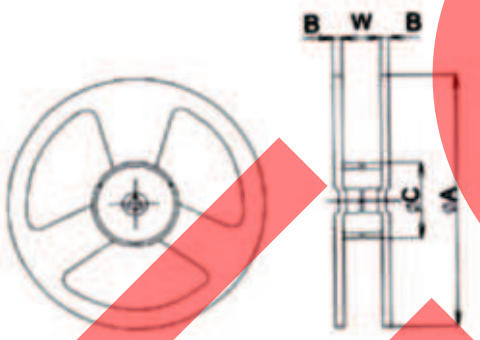
TAPE & REEL:

Packaging: 4000 Units per reel



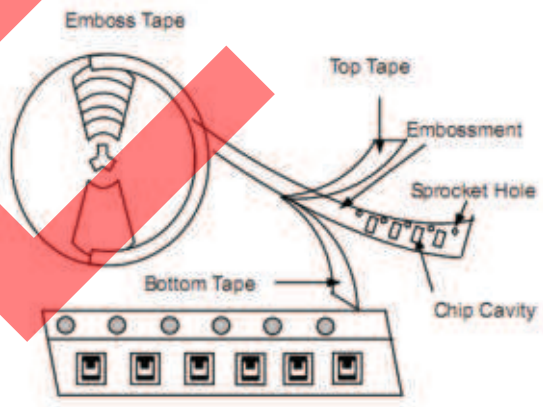
W	12.0±0.10	**D0**	1.50 +0.10 / -0.0
P1	8.0±0.10	**P0**	4.0±0.10
E	1.75±0.10	**K0**	1.20±0.10
F	5.50±0.15	**A0**	2.35±0.10
B0	5.50±0.10	**t**	0.3±0.05

Reel Dimensions



Type	Spec	Dimensions (mm)			
		A	W	C	B
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.

ABRACON LLC
The Power of Linking Together

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