Surface Mount WiMAX Antenna (2800MHz)



3.2 x 1.6 x 1.2mm

AMCA31-2R800G-S1F-T

RoHS / RoHS II Compliant

Moisture Sensitivity Level (MSL) – MSL = 1

FEATURES:

- 2800MHz, Bandwidth ≥150MHz
- Suitable for RoHS compliant reflow
- Gain 0.5dBi (Peak) / -1dBi (Average)
- VSWR <2:1
- Small size – 3.2 x 1.6 x 1.2mm (0.125 x 0.62 x 0.047 inch)
- Non Ground Mounting type.
- Power Handling 3W Max
- Matched to 50 Ohm.

APPLICATIONS:

- Wireless application - WiMAX (2.800GHz)
- User Equipments (UE), e.g. dongles, modems.
- Alternative to larger PCB solution
- Sunspot analysis

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	2800MHz
Bandwidth	≥100 MHz
Peak Gain	0.5 dBi typ.
Average Gain	-1 dBi typ
VSWR	<2:1
Impedance	50 Ohm
Power Capability	3W max

PART IDENTIFICATION:

AMCA31-2R800G-S1F-T3

Packaging
Blank: Bulk or Cut Tape
T3 : T/R 3000pcs per reel

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 (2800MHz)

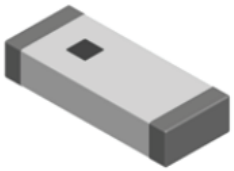


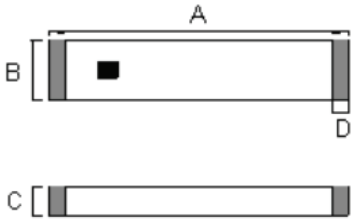
3.2 x 1.6 x 1.2mm

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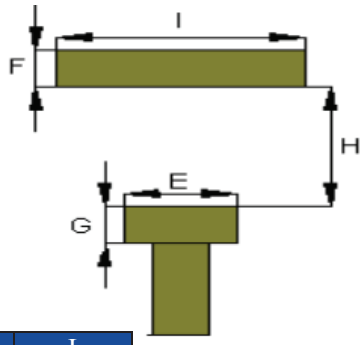
Pb RoHS / RoHS II Compliant

OUTLINE DIMENSIONS:





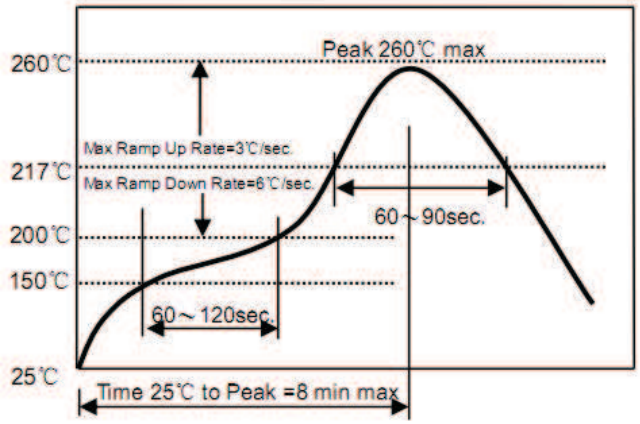
Recommended Land Pattern



Series	A	B	C	D	E	F	G	H	I
AMCA31	3.2±0.2	1.6±0.2	1.2±0.2	0.5±0.2	1.6±0.2	0.8±0.2	0.8±0.2	2.6±0.2	3.5±0.2

(Dimensions: mm)

REFLOW PROFILE:

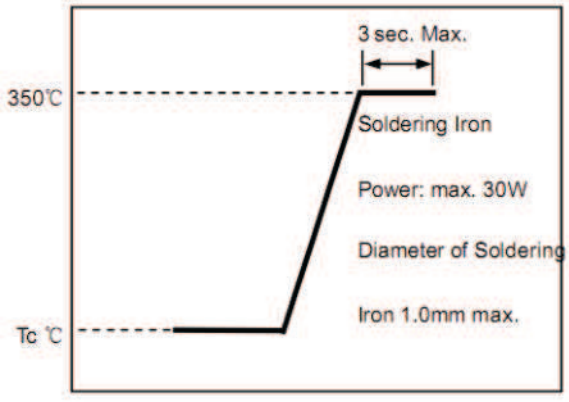


- Preheat condition: 150 ~200 /60~120ºC sec.
- Allowed time above 217ºC: 60~90sec.
- Max temp: 260ºC
- Max time at max temp: 10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Allowed Reflow time: 2x max

[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.]

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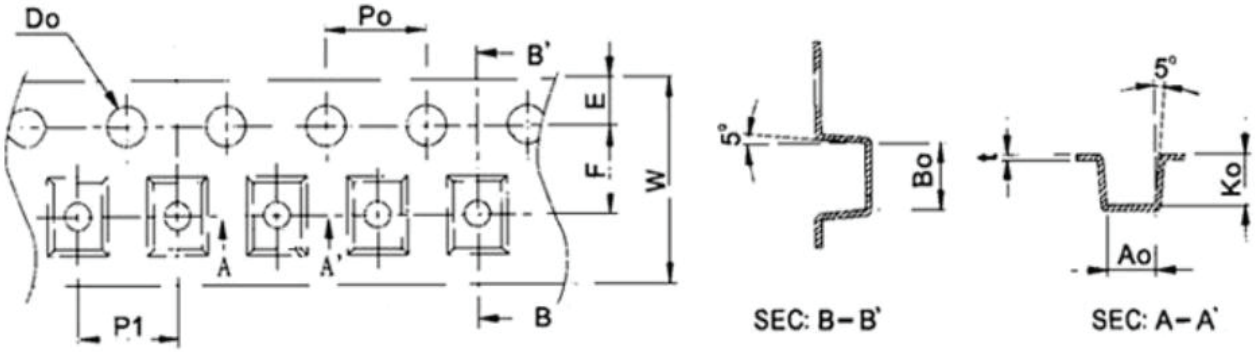
RoHS / RoHS II Compliant



3.2 x 1.6 x 1.2mm

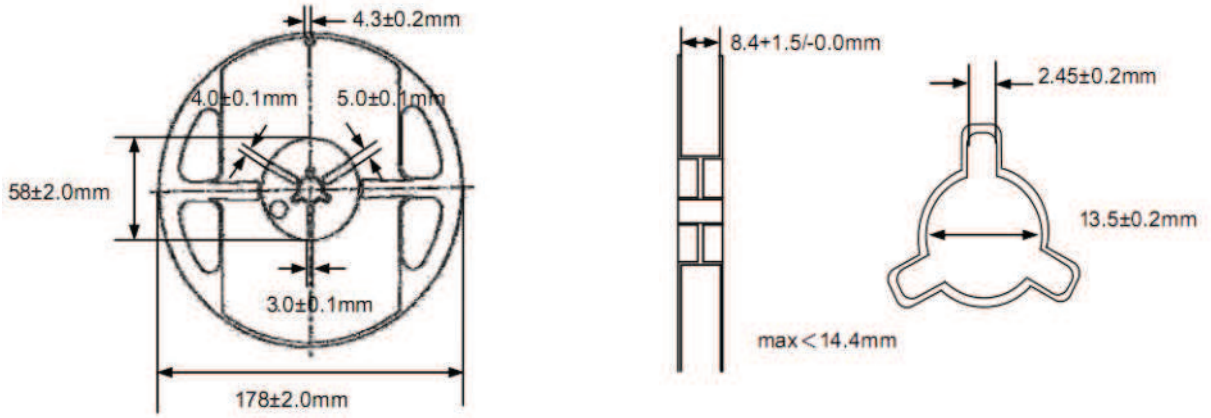
TAPE & REEL:

Packaging: 3000 Units per reel

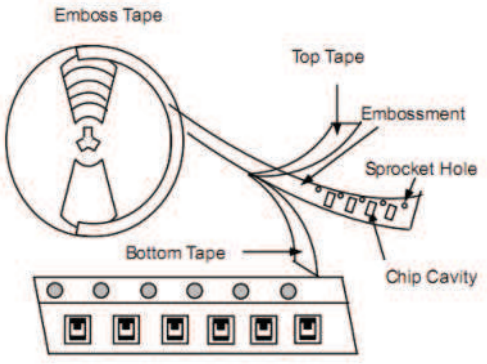


W	8.0±0.10	**D0**	1.50 +0.10 / -0.0
P1	4.0±0.10	**P0**	4.0±0.10
E	1.75±0.10	**K0**	1.50±0.10
F	3.50±0.15	**A0**	1.80±0.10
B0	3.50±0.10	**t**	0.22±0.10

Reel Dimensions



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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