# Surface Mount WLAN Antenna (2800MHz)

#### AMCA31-2R800G-S1F-T



RoHS / RoHS II Compliant

• Wireless application - WiMax (2.800GHz)

• Alternative to larger PCB solution

• User Equipments (UE), e.g. dongles, modems.

**APPLICATIONS:** 

Sunspot analysis



3.2 x 1.6 x 1.2mm

### 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  $-3.2 \times 1.6 \times 1.2 \text{mm}$  (0.125 x 0.62 x 0.047 inch)
- Non Ground Mounting type.
- Power Handling 3W Max
- Matched to 50 Ohm.

#### STANDARD SPECIFICATIONS

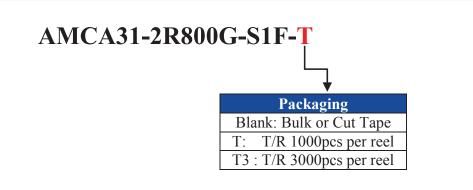
#### **Maximum Ratings**

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

#### **Electrical Characteristics**

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:







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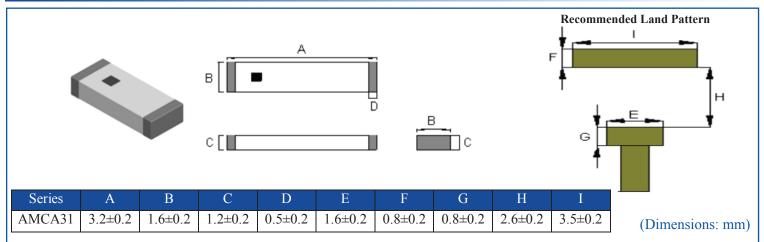
AMCA31-2R800G-S1F-T



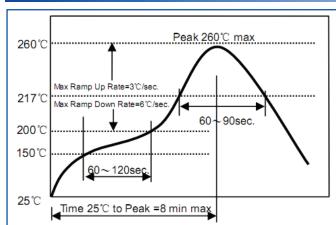


3.2 x 1.6 x 1.2mm

#### **OUTLINE DIMENSIONS:**



#### **REFLOW PROFILE:**

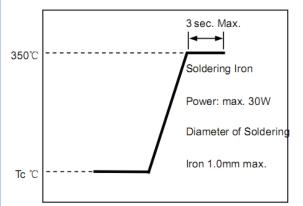


- Preheat condition: 150 ~200 /60~120°C sec.
- Allowed time above 217°C: 60~90sec.
- Max temp: 260°C
- Max time at max temp: 10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Allowed Reflow time: 2x max

[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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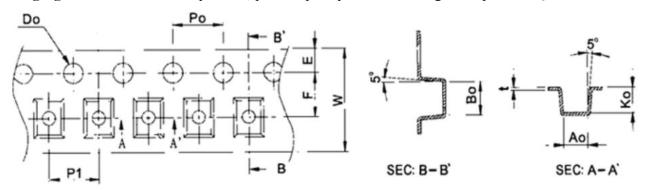




3.2 x 1.6 x 1.2mm

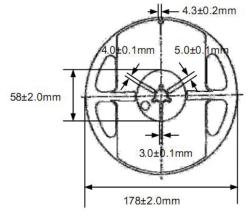
#### **TAPE & REEL:**

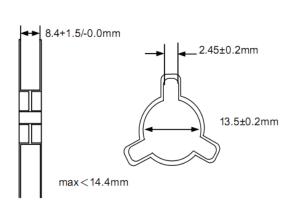
Packaging: 1000 or 3000 Units per reel, please specify when ordering. 1000pcs MOQ.



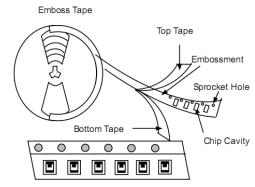
$\mathbf{W}$	$8.0\pm0.10$	D0	1.50 +0.10 / -0.0
P1	4.0±0.10	P0	4.0±0.10
E	1.75±0.10	K0	1.50±0.10
F	3.50±0.15	A0	1.80±0.10
В0	3.50±0.10	t	0.22±0.10

#### **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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