# Surface Mount Bluetooth/WLAN Antenna (2470MHz)

### AMCA72-2R470G-S1F-T



**RoHS / RoHS II Compliant** 



7.0x 2.0 x 1.0mm

### Moisture Sensitivity Level (MSL) - MSL = 1

### **FEATURES:**

- 2470MHz, Bandwidth ≥200MHz
- Suitable for RoHS compliant reflow
- Gain 2.6dBi (Peak) / 0.7dBi (Average)
- VSWR <2:1
- Small size 7.0 x 2.0 x 1.0mm (0.275 x 0.078 x 0.039inch)
- Non Ground Mounting type.
- Power Handling 3W Max
- Matched to 50 Ohm

### > APPLICATIONS:

- Wireless application ISM band, including WiFi / Bluetooth
- High density applications
- Bluetooth headsets or ear pieces
- Computer mouse and keyboards
- PROFINET Industrial automation
- Video Game systems
- 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	2470MHz			
Bandwidth	≥200 MHz			
Peak Gain	2.7 dBi typ.			
Average Gain	1.0 dBi typ			
VSWR	<2:1			
Impedance	50 Ohm			
Power Capability	3W max			

### PART IDENTIFICATION:

## AMCA72-2R470G-S1F-T4

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

Packaging

Blank: Bulk or Cut Tape

T4: T/R 4000pcs per reel



## **Surface Mount WLAN Antenna (2470MHz)**

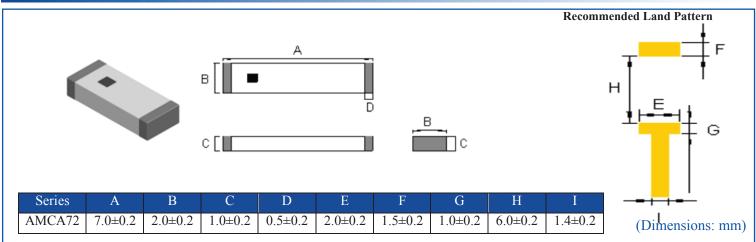
### AMCA72-2R470G-S1F-T



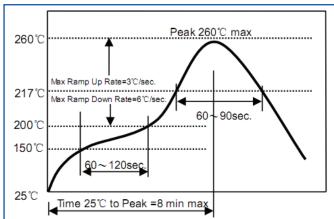


7.0x 2.0 x 1.0mm

### **OUTLINE DIMENSIONS:**



#### **REFLOW PROFILE:**

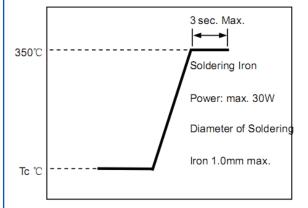


- Preheat condition: 150 ~200 /60~120°C sec.
- Allowed time above 217°C: 60~90sec.
- Max temp: 260°C
- Max time at max temp: 10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Allowed Reflow time: 2x max

[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.]



REVISED: 05.17.2017

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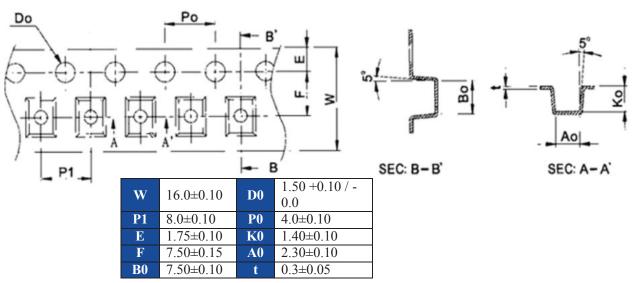




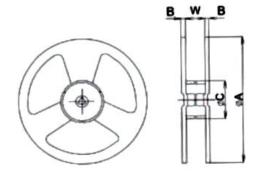
7.0x 2.0 x 1.0mm

### **TAPE & REEL:**

Packaging: 4000 Units per reel

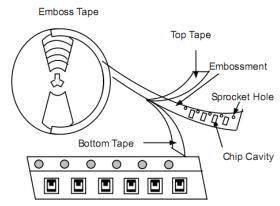


#### **Reel Dimensions**



Smaa	Dimensions (mm)				
Spec	A	W	C	В	
13"*16mm	330±1	16.5±0.2	100±0.5	2.3±0.2	
	Spec 13"*16mm	A	Spec A W	Spec A W C	

### **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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