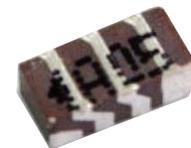


# WiFi / Bluetooth Chip Antenna 2400 ~ 2485MHz



4.0 x 2.0 x 1.2 mm

**ACA-101-T**



RoHS / RoHS II Compliant



Moisture Sensitivity Level (MSL) – MSL = 1

## FEATURES:

- Chip Antenna constructed from solid dielectric ceramic material
- Suitable for RoHS compliant reflow
- Gain 1.09 (Peak) / -3.49 (Average) [dBi]
- VSWR 1.0 ~ 3.0 : 1
- Small size – 4.0 x 2.0 x 1.2mm (0.16 x 0.08 x 0.048 inch)
- Non Ground Mounting type.
- Linear Polarization
- Matched to 50 Ohm.

## APPLICATIONS:

- Wireless application - Bluetooth / WLAN (2.445GHz)
- 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

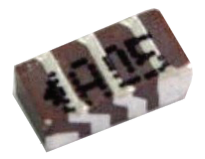
### Maximum Ratings

Item	Value
ESD Voltage	15kV [HBM Class 3B]
Operating Temperature Range	-40°C to + 85°C
Storage Temperature Range	-40°C to + 85°C

### Electrical Characteristics

Item	Spec		
Frequency Range	2400 ~ 2485MHz		
VSWR	3.0: 1 Max (Typ 2.5:1)		
Polarization	Linear		
Input Impedance [Ω]	50Ohm		
Frequency [MHz]	2400MHz	2442.5MHz (CF)	2485MHz
Total Gain	1.09 (Peak) / -3.49 (Average)		
Gain [dBi]	Peak	Theta	Phi
	Azimuth	-5.01	2.75
	Elevation 1	0.98	1.78
	Elevation 2	-7.04	2.61
	Average	Theta	Phi
	Azimuth	-4.81	-1.67
	Elevation 1	-2.67	-4.72
	Elevation 2	-11.31	-1.41

# WiFi / Bluetooth Chip Antenna 2400 ~ 2485MHz



4.0 x 2.0 x 1.2 mm

**ACA-101-T**

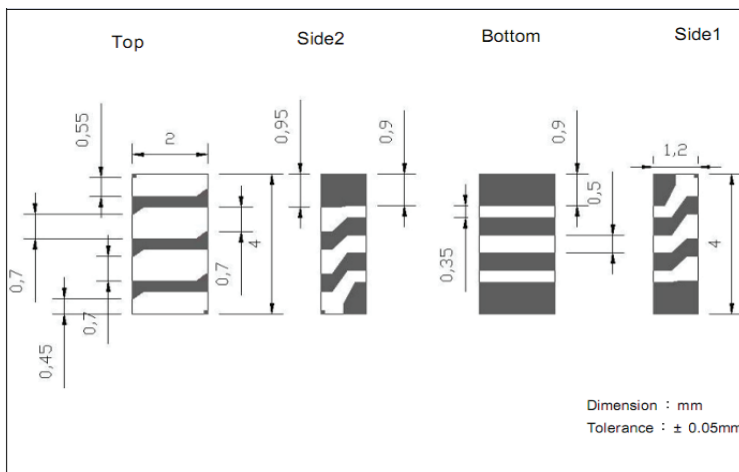
**Pb** | RoHS / RoHS II Compliant |

## PART IDENTIFICATION:

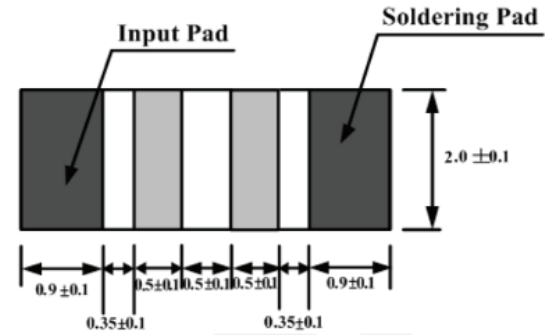
ACA-101-

<b>Packaging</b>
Blank: Bulk
T: Tape and Reel

## OUTLINE DIMENSIONS:

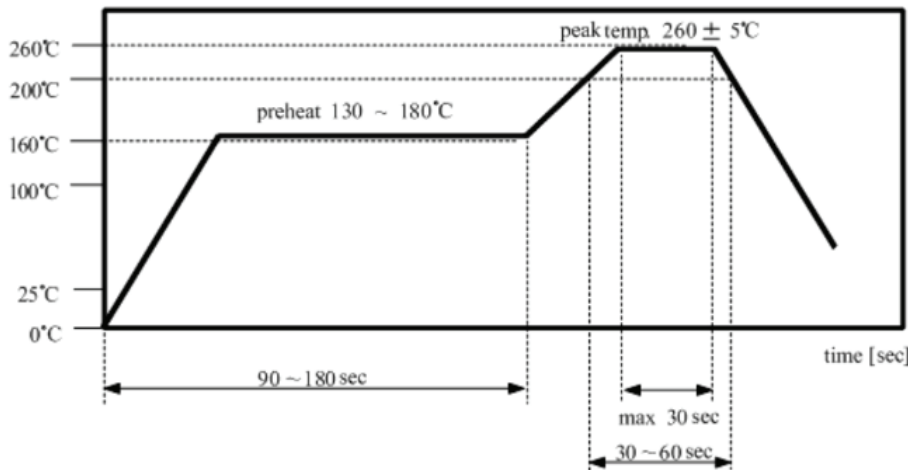


### Recommended Land Pattern



<b>Size [mm]</b>	L = 4.0 ± 0.1 (Cpk:2:51)
	W = 2.0 ± 0.1 (Cpk 2.31)
	T = 1.2 ± 0.1 (Cpk 2.37)
<b>Flatness [mm]</b>	0.04

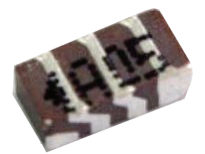
## REFLOW PROFILE:



# WiFi / Bluetooth Chip Antenna 2400 ~ 2485MHz

**ACA-101-T**

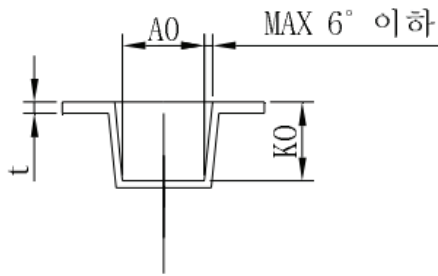
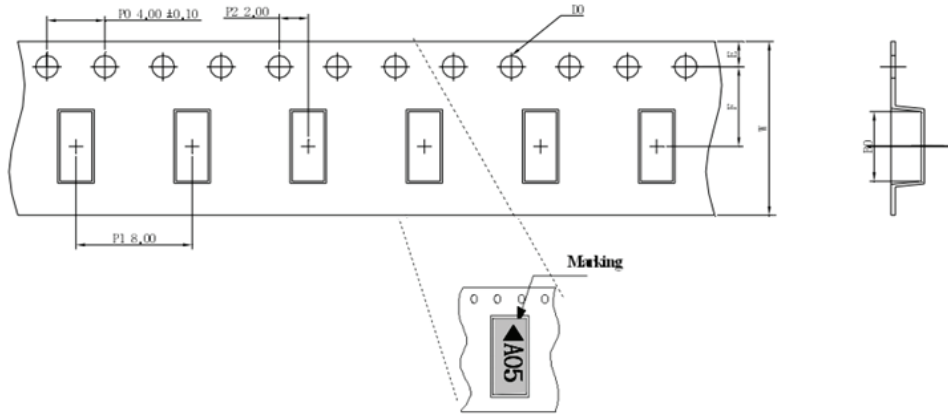
**Pb** | RoHS / RoHS II Compliant |



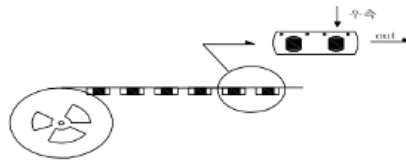
4.0 x 2.0 x 1.2 mm

## TAPE & REEL:

**Packaging:** 1,000 Units Per Reel



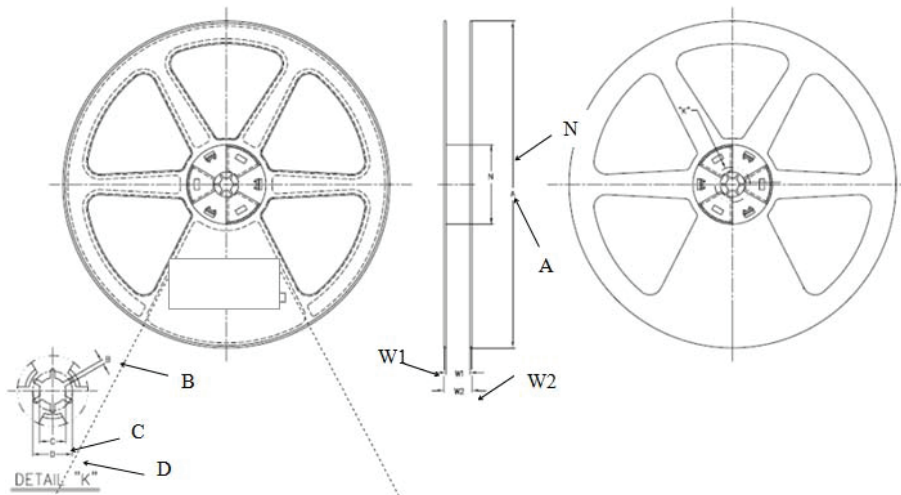
TAPING STYLE



A0	2.30±0.10	E	1.75±0.10
B0	4.30±0.10	F	5.50
K0	1.40±0.10	t	0.30±0.05
D0	1.55±0.05	w	12.00±0.30

(Dimensions: mm)

## Reel Dimensions:



A	330+0.2/-2.0
B	2.0+0.5/-0.2
C	13.0+0.5/-0
D	20.2 min
N	80+3.0/-0
W1	12.4+3.0/-0
W2	16.4+2.0/-0

(Dimensions: mm)

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