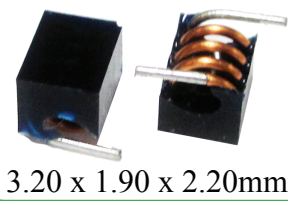


# SMT Air Coil Inductor

AIAC-1008C



**RoHS**  
Compliant



3.20 x 1.90 x 2.20mm

## FEATURES:

- High current design
- Wide Range Frequency Response
- Excellent Q & SRF
- Standard flat cap top suitable for automatic placement.

## APPLICATIONS:

- Widely used in Cordless Phones, High Frequency Communication Equipments, Intercom, CATV, RFID
- Suitable for metal sensors and proximity sensors
- Noise suppression for RF power supply/bias
- I/O filtering, frequency selection for audio devices such as Loudspeakers, Hifi
- Impedance Matching for transceivers
- Improves switch isolation for RF circuit

## STANDARD SPECIFICATIONS:

|                        |                  |
|------------------------|------------------|
| ABRACON P/N:           | AIAC-1008C       |
| Operating temperature: | -40 °C ~ +125 °C |
| Storage temperature:   | -25°C to + 60°C  |

| Part Number    | Inductance | Tolerance | DCR (Max) | Q(Min) | SRF(Min) | Rated Current (Max) | Inductance Code |
|----------------|------------|-----------|-----------|--------|----------|---------------------|-----------------|
| Units          | nH         | %         | mΩ        |        | MHz      | mA                  |                 |
| Symbol         | L          | K         | DCR       |        |          | IDC                 |                 |
| AIAC-1008C-6N8 | 6.8        | K         | 4.0       | 80     | >3000    | 1200                | 6N8             |
| AIAC-1008C-8N2 | 8.2        | K         | 5.0       | 80     | >3000    | 950                 | 8N2             |
| AIAC-1008C-10N | 10         | K         | 6.0       | 70     | >3000    | 950                 | 10N             |
| AIAC-1008C-12N | 12         | K         | 6.5       | 70     | >3000    | 900                 | 12N             |
| AIAC-1008C-15N | 15         | K         | 7.3       | 70     | 2500     | 900                 | 15N             |
| AIAC-1008C-18N | 18         | K         | 9.6       | 70     | 2500     | 840                 | 18N             |
| AIAC-1008C-22N | 22         | K         | 10.8      | 70     | 2400     | 840                 | 22N             |
| AIAC-1008C-27N | 27         | K         | 13.9      | 70     | 1600     | 600                 | 27N             |
| AIAC-1008C-33N | 33         | K         | 19.5      | 70     | 1600     | 500                 | 33N             |
| AIAC-1008C-39N | 39         | K         | 21.6      | 70     | 1500     | 500                 | 39N             |

## Test Conditions and equipments

Test frequency: 300MHz

Equipment: HP4286A/HP16191A

## PART IDENTIFICATION:

AIAC-1008C-  - 

### Inductance Code

Please refer to the  
Electrical Spec Table

### Tolerance

K: ±10%

### Packaging

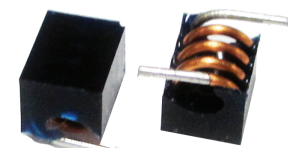
T: Tape and Reel  
(3kpcs / reel)

# SMT Air Coil Inductor

AIAC-1008C

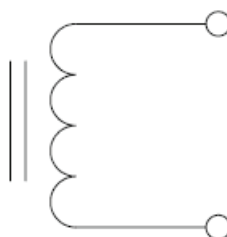
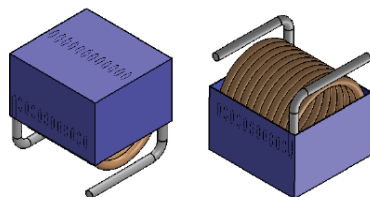
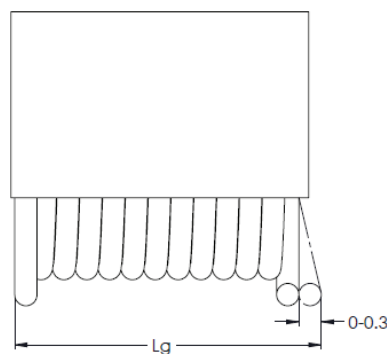
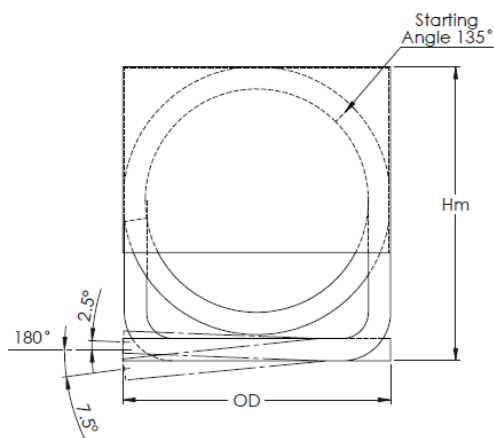


**RoHS**  
Compliant



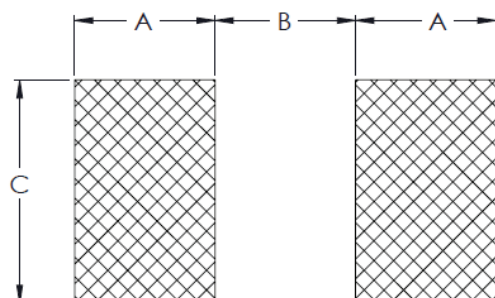
3.20 x 1.90 x 2.20mm

## OUTLINE DRAWING:



|           |          |
|-----------|----------|
| <b>Hm</b> | 2.20 Max |
| <b>OD</b> | 1.90 Max |
| <b>Lg</b> | 3.20 Max |

## Recommended Land Pattern



|          |          |
|----------|----------|
| <b>A</b> | 1.02 Min |
| <b>B</b> | 1.27 Min |
| <b>C</b> | 2.54 Min |

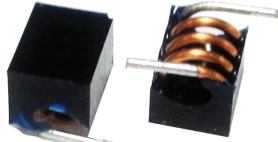
**Dimension: mm**

# SMT Air Coil Inductor

AIAC-1008C

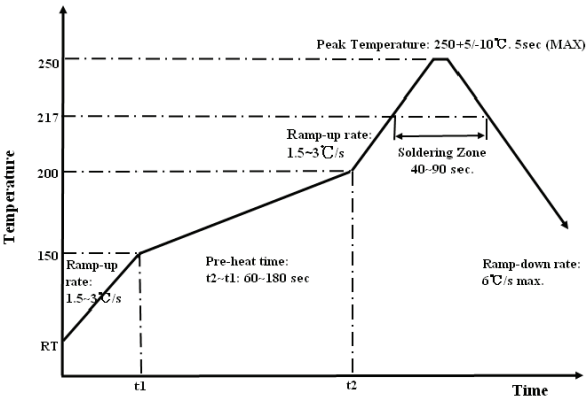


RoHS  
Compliant



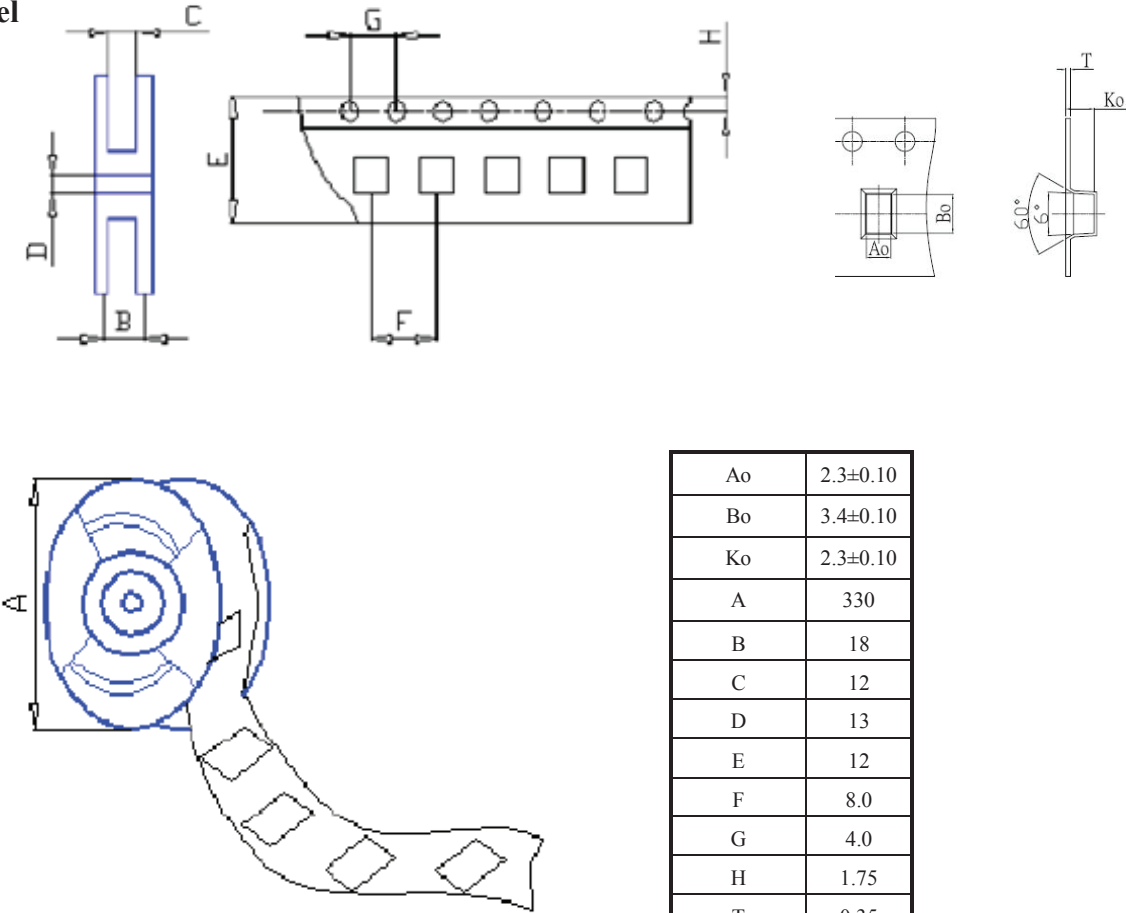
3.20 x 1.90 x 2.20mm

## REFLOW PROFILE:



## TAPE & REEL:

Packing  
T: 3,000pcs / reel



Dimension: 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.