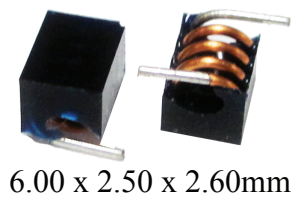


# SMT Air Coil Inductor

AIAC-2712C

**RoHS**  
Compliant



6.00 x 2.50 x 2.60mm

## 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:

| PARAMETERS             |                  |
|------------------------|------------------|
| ABRACON P/N:           | AIAC-2712C       |
| Operating temperature: | -40 °C ~ +125 °C |
| Storage temperature:   | -25°C to + 60°C  |

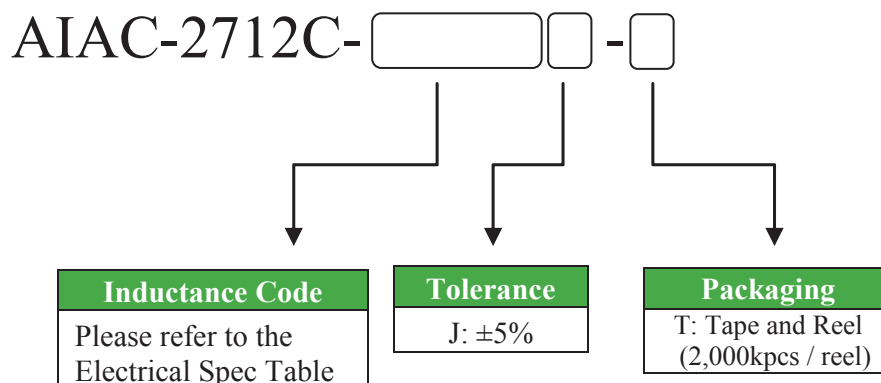
| Part Number     | Inductance | Tolerance | DCR (Max) | Q(Min) | SRF(Min) | Rated Current (Max) | Inductance Code |
|-----------------|------------|-----------|-----------|--------|----------|---------------------|-----------------|
| Units           | nH         | %         | mΩ        |        | GHz      | A                   |                 |
| Symbol          | L          | J         | DCR       |        |          | IDC                 |                 |
| AIAC-2712C-17N5 | 17.50      | J         | 4.5       | 100.0  | 2.2      | 3.5                 | 17N5J           |
| AIAC-2712C-22N0 | 22.00      | J         | 5.0       | 100.0  | 2.0      | 3.0                 | 22N0J           |
| AIAC-2712C-28N0 | 28.00      | J         | 5.6       | 100.0  | 1.8      | 2.8                 | 28N0J           |
| AIAC-2712C-35N5 | 35.50      | J         | 6.2       | 100.0  | 1.2      | 2.7                 | 35N5J           |
| AIAC-2712C-43N5 | 43.50      | J         | 6.7       | 100.0  | 1.0      | 2.5                 | 43N5J           |

## Test Conditions and equipments

Test frequency: 150MHz

Equipment: HP4191A

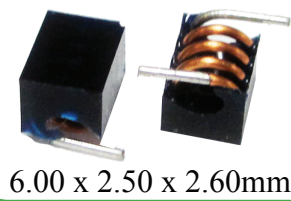
## PART IDENTIFICATION:



# SMT Air Coil Inductor

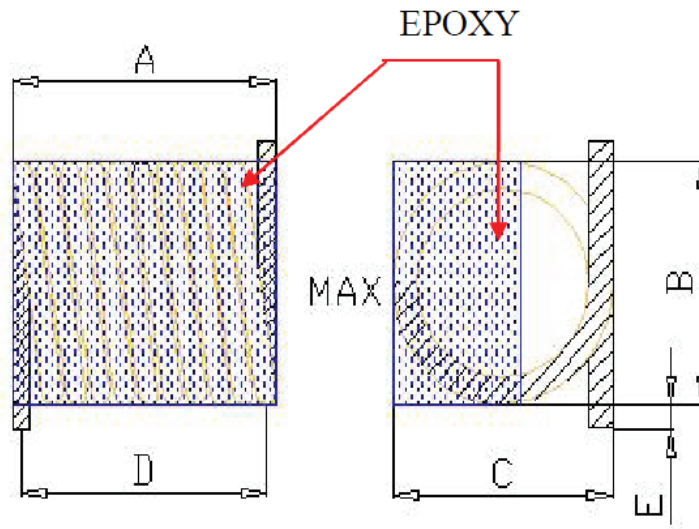
AIAC-2712C

**RoHS**  
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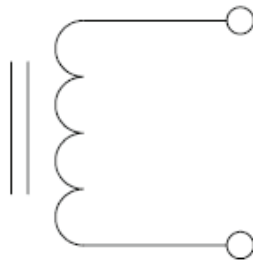
6.00 x 2.50 x 2.60mm

## OUTLINE DRAWING:

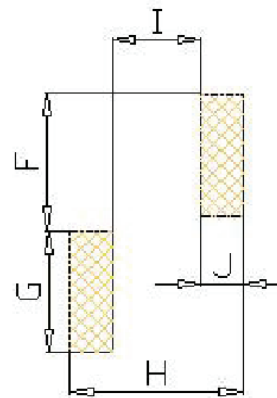


| A        | B        | C        | D        | E        |
|----------|----------|----------|----------|----------|
| 6.00±0.3 | 2.50±0.2 | 2.60±0.2 | 5.80±0.3 | 0.70±0.2 |

Schematic



Recommended Land Pattern



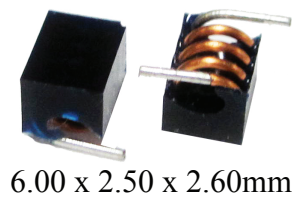
| F   | G   | H   | I   | J   |
|-----|-----|-----|-----|-----|
| 2.8 | 3.3 | 7.4 | 4.9 | 1.3 |

Dimension: mm

# SMT Air Coil Inductor

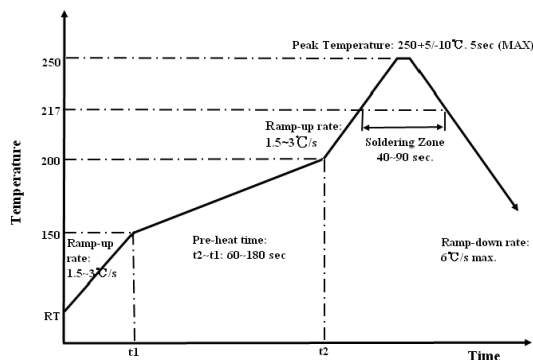
AIAC-2712C

RoHS  
Compliant



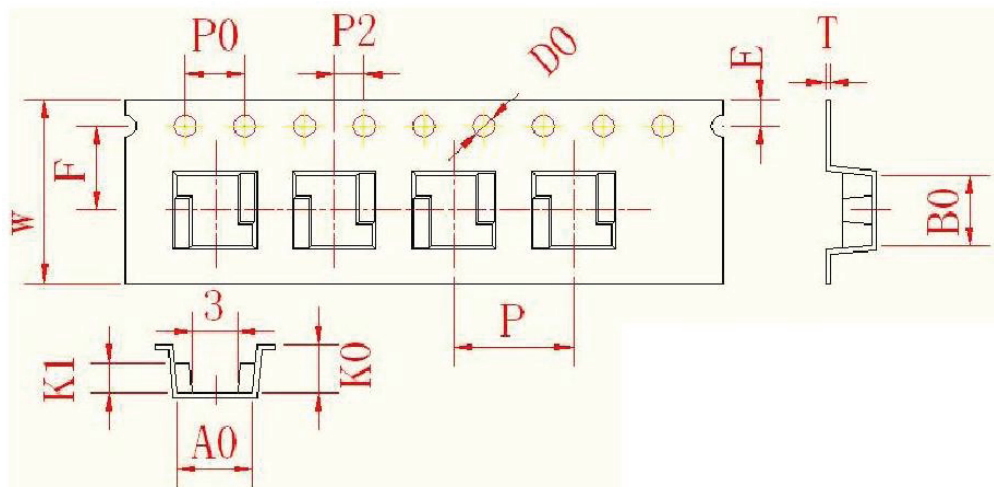
6.00 x 2.50 x 2.60mm

## REFLOW PROFILE:

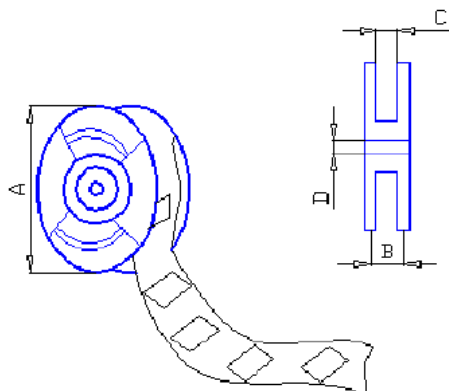


## TAPE & REEL:

Packing  
T: 2,000pcs / reel



| W        | A0      | B0      | K0      | K1      | P       | F       | E        | D0         | P0      | P2      | T         |
|----------|---------|---------|---------|---------|---------|---------|----------|------------|---------|---------|-----------|
| 16.0±0.3 | 4.7±0.1 | 6.8±0.1 | 3.2±0.1 | 2.0±0.1 | 8.0±0.1 | 7.5±0.1 | 1.75±0.1 | 1.5+0.1/-0 | 4.0±0.1 | 2.0±0.1 | 0.35±0.05 |



|   |     |
|---|-----|
| A | 330 |
| B | 22  |
| C | 16  |
| D | 13  |

Dimension: mm

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Revised: 11.20.12

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