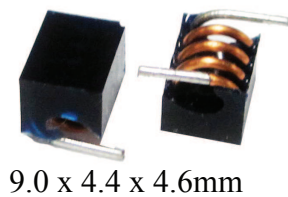


SMT Air Coil Inductor

AIAC-4125C

RoHS
Compliant



9.0 x 4.4 x 4.6mm

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-4125C |
| Operating temperature: | -40 °C ~ +125 °C |
| Storage temperature: | -25°C to + 60°C |

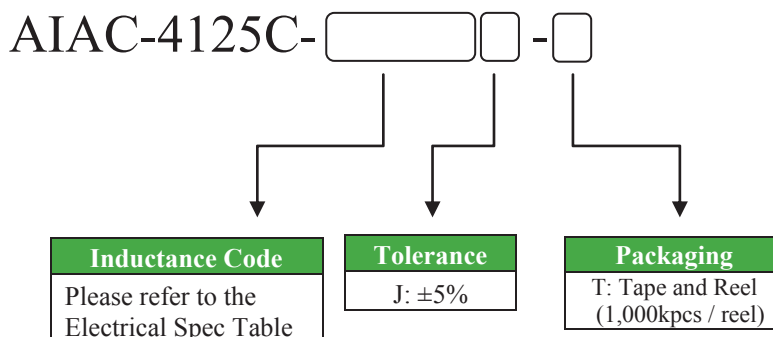
| Part Number | Inductance | Tolerance | DCR (Max) | Q(Min) | SRF(Min) | Rated Current (Max) | Inductance Code |
|-----------------|------------|-----------|-----------|--------|----------|---------------------|-----------------|
| Units | nH | % | mΩ | | GHz | A | |
| Symbol | L | J | DCR | | | IDC | |
| AIAC-4125C-R090 | 90 | J | 14.0 | 100 | 1.0 | 3.5 | R090 |
| AIAC-4125C-R111 | 111 | J | 9.5 | 100 | 1.0 | 3.5 | R111 |
| AIAC-4125C-R130 | 130 | J | 10.8 | 100 | 0.9 | 3.0 | R130 |
| AIAC-4125C-R169 | 169 | J | 12.0 | 100 | 0.8 | 3.0 | R169 |
| AIAC-4125C-R206 | 206 | J | 10.5 | 100 | 0.7 | 3.0 | R206 |
| AIAC-4125C-R222 | 222 | J | 14.0 | 100 | 0.6 | 3.0 | R222 |
| AIAC-4125C-R246 | 246 | J | 17.0 | 100 | 0.6 | 3.0 | R246 |
| AIAC-4125C-R307 | 307 | J | 22.0 | 100 | 0.5 | 3.0 | R307 |
| AIAC-4125C-R380 | 380 | J | 25.5 | 100 | 0.5 | 2.5 | R380 |
| AIAC-4125C-R422 | 422 | J | 39.0 | 100 | 0.4 | 2.5 | R422 |
| AIAC-4125C-R491 | 491 | J | 40.0 | 100 | 0.4 | 2.0 | R491 |
| AIAC-4125C-R538 | 538 | J | 42.0 | 100 | 0.4 | 2.0 | R538 |

Test Conditions and equipments

Test frequency: 50MHz

Equipment: HP4191A

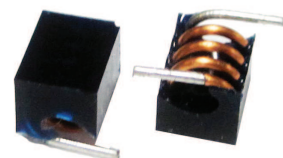
PART IDENTIFICATION:



SMT Air Coil Inductor

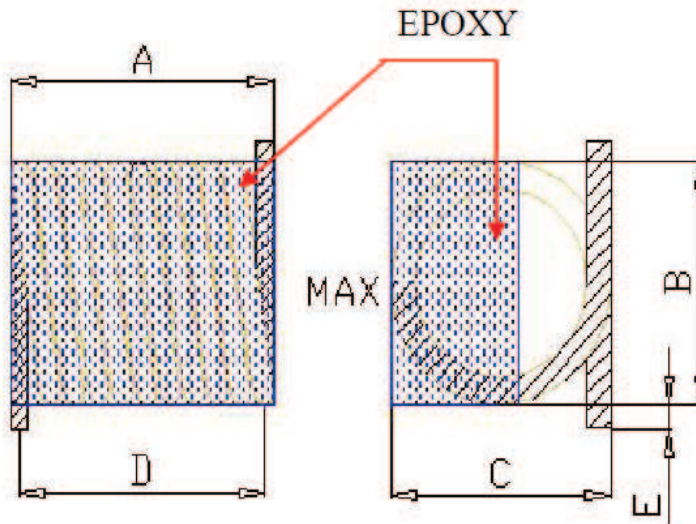
AIAC-4125C

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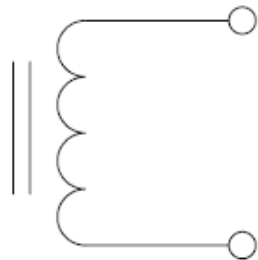
9.0 x 4.4 x 4.6mm

OUTLINE DRAWING:

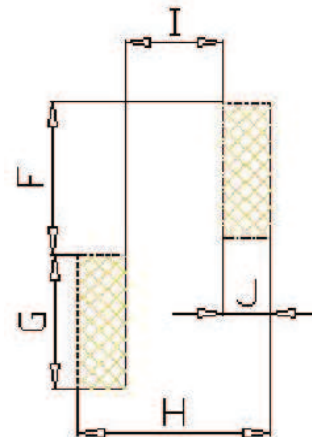


| A | B | C | D | E |
|---------|---------|---------|---------|---------|
| 9.0 max | 4.4±0.3 | 4.6±0.4 | 8.0±0.5 | 1.3±0.4 |

Schematic



Recommended Land Pattern



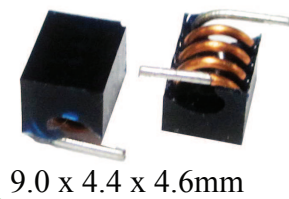
| F | G | H | I | J |
|-----|-----|------|-----|-----|
| 2.4 | 4.7 | 10.0 | 6.0 | 2.1 |

Dimension: mm

SMT Air Coil Inductor

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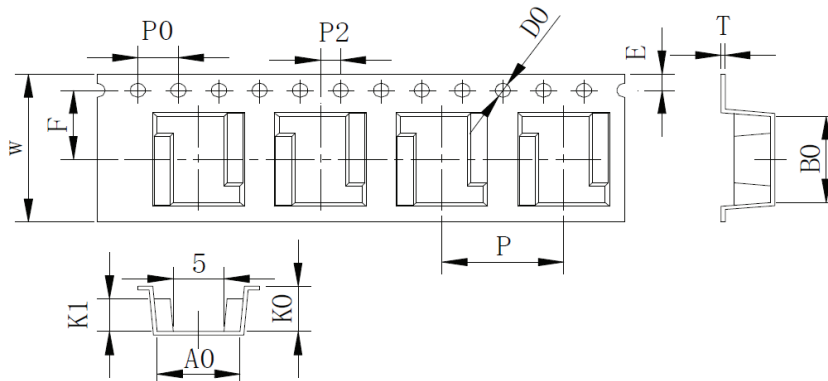
9.0 x 4.4 x 4.6mm

REFLOW PROFILE:

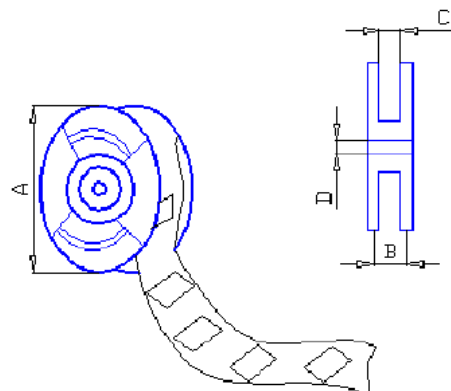


TAPE & REEL:

Packing
T: 1,000pcs / reel



| W | A0 | B0 | K0 | K1 | P | F | E | D0 | P0 | P2 | T |
|----------|---------|---------|---------|---------|-----------|---------|----------|------------|---------|---------|-----------|
| 16.0±0.3 | 8.2±0.1 | 9.3±0.1 | 4.9±0.1 | 3.6±0.1 | 12.00±0.1 | 7.5±0.1 | 1.75±0.1 | 1.5+0.1/-0 | 4.0±0.1 | 2.0±0.1 | 0.40±0.05 |



| | |
|---|------|
| A | 330 |
| B | 22 |
| C | 16 |
| D | 13.5 |

Dimension: mm

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Revised: 11.20.12