



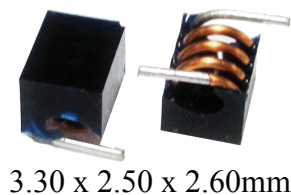
**THE DATASHEET OF  
AIAC-1512C-12N5J-T**



# SMT Air Coil Inductor

AIAC-1512C

RoHS  
Compliant



3.30 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-1512C
Operating temperature:	-40 °C ~ +125 °C
Storage temperature:	-25°C to + 60°C

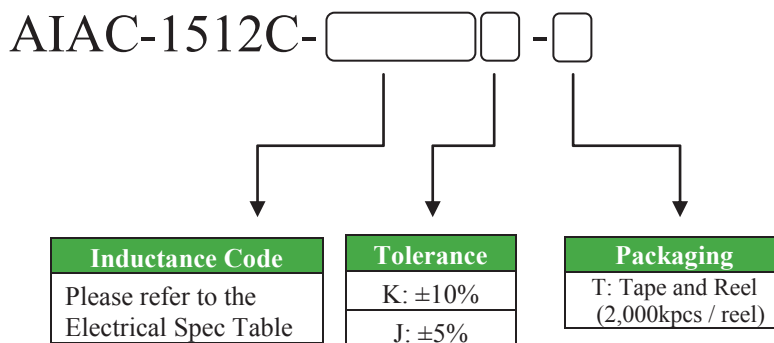
Part Number	Inductance	Tolerance	DCR (Max)	Q(Min)	SRF(Min)	Rated Current (Max)	Inductance Code
Units	nH	%	mΩ		GHz	A	
Symbol	L	J, K	DCR			IDC	
AIAC-1512C-2N5	2.50	K	0.8	145.0	3.0	4.8	2N5K
AIAC-1512C-5N0	5.00	K	1.5	140.0	3.0	4.6	5N0K
AIAC-1512C-8N0	8.00	K	2.3	140.0	3.0	4.5	8N0K
AIAC-1512C-12N5	12.50	J	3.0	137.0	3.0	4.3	12N5J
AIAC-1512C-18N5	18.50	J	3.9	132.0	2.5	4.0	18N5J

## Test Conditions and equipments

Test frequency: 150MHz

Equipment: HP4191A

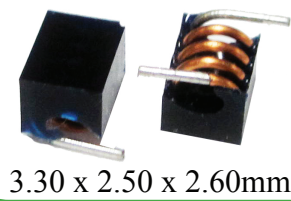
## PART IDENTIFICATION:



# SMT Air Coil Inductor

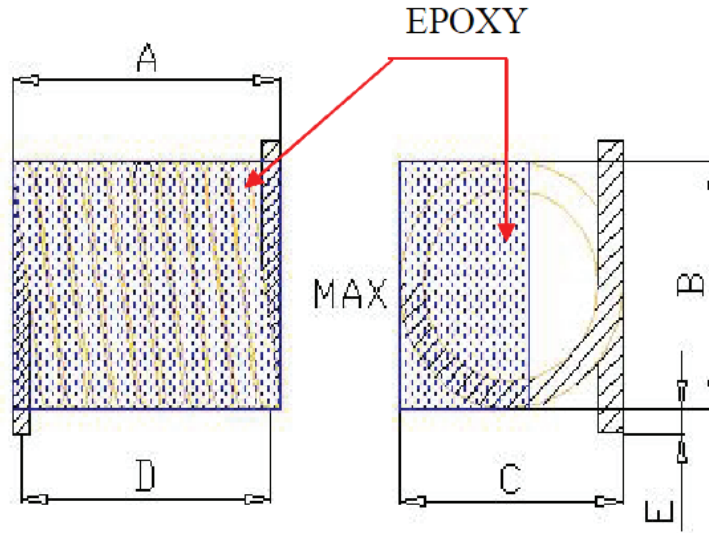
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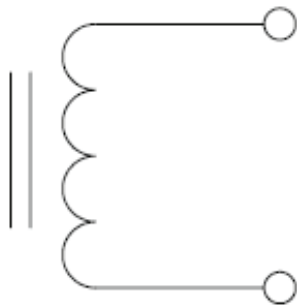
3.30 x 2.50 x 2.60mm

## OUTLINE DRAWING:

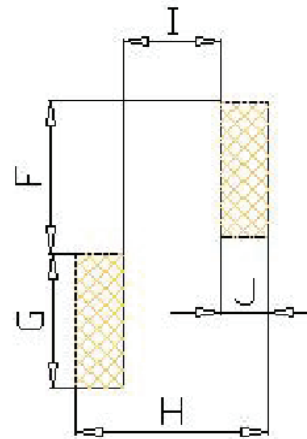


A	B	C	D	E
3.30±0.3	2.50±0.2	2.60±0.2	2.90±0.3	0.70±0.2

Schematic



Recommended Land Pattern



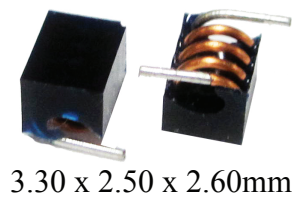
F	G	H	I	J
2.8	3.3	4.2	1.7	1.3

Dimension: mm

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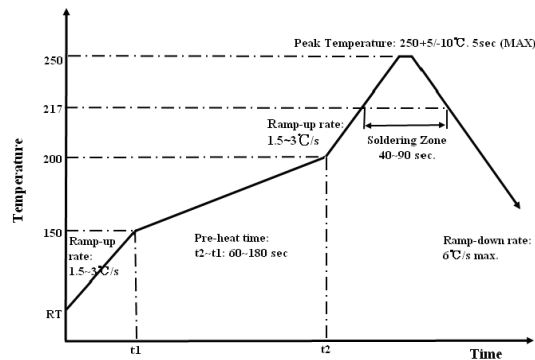
AIAC-1512C

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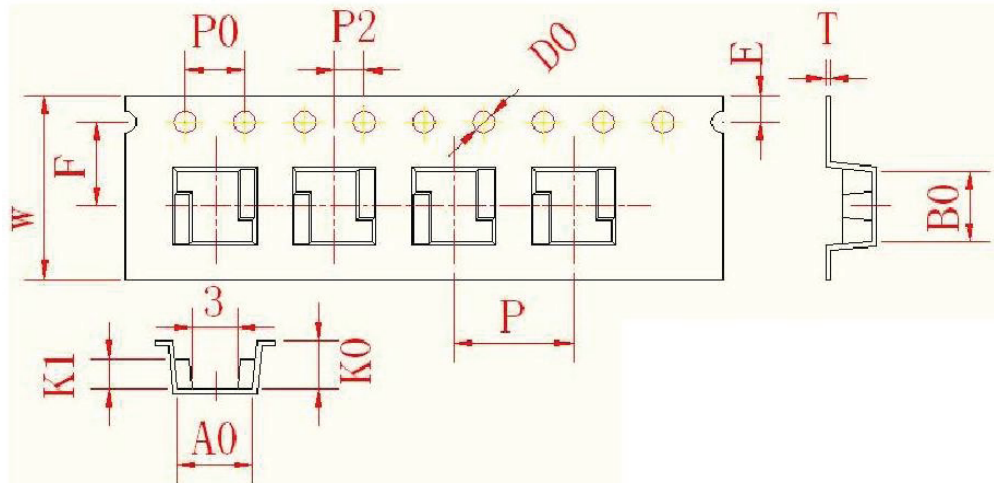
3.30 x 2.50 x 2.60mm

## REFLOW PROFILE:

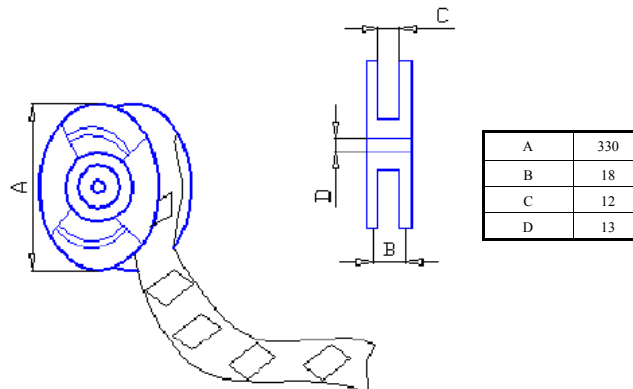


## TAPE & REEL:

Packing  
T: 2,000pcs / reel



W	A0	B0	K0	K1	P	F	E	D0	P0	P2	T
12.0±0.3	5.1±0.1	4.6±0.1	3.1±0.1	1.9±0.1	8.0±0.1	5.5±0.1	1.75±0.1	1.5+0.1/-0	4.0±0.1	2.0±0.1	0.35±0.05



Dimension: mm

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- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management