AIAC-1812

FEATURES:

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

RoHS Compliant 4.7 x 3.5 x 3.5mm

> 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:

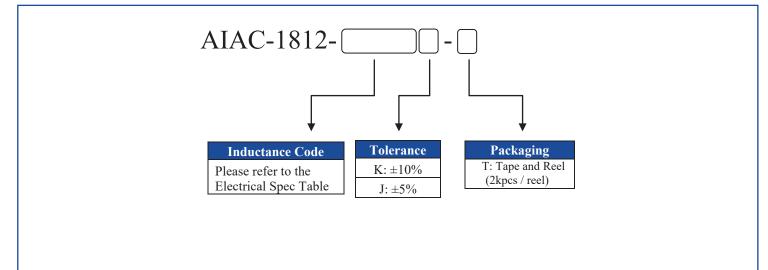
PARAMETERS	
ABRACON P/N:	AIAC-1812
Operating temperature:	-40 °C ~ +125 °C
Storage temperature:	$-25^{\circ}C$ to $+60^{\circ}C$

Part Number	Inductance	Tolerance	DCR (Max)	Q(Min)	SRF(Min)	Rated Current (Max)	Inductance Code
Units	nH	%	mΩ		GHz	Α	
Symbol	L	J, K	DCR			IDC	
AIAC-1812-22N	22	K	4.8	100.0	3.20	3.2	22NK
AIAC-1812-27N	27	K	4.6	100.0	2.70	3.5	27NK
AIAC-1812-33N	33	K	5.9	100.0	2.50	3.0	33NK
AIAC-1812-39N	39	J	5.6	100.0	2.10	2.8	39NJ
AIAC-1812-47N	47	J	6.9	100.0	2.10	2.8	47NJ
AIAC-1812-56N	56	J	6.4	100.0	1.50	2.9	56NJ
AIAC-1812-68N	68	J	8.1	100.0	1.50	2.9	68NJ
AIAC-1812-82N	82	J	8.9	100.0	1.30	2.6	82NJ
AIAC-1812-R10	100	J	10.0	100.0	1.20	2.5	R10J
AIAC-1812-R12	120	J	11.1	100.0	1.10	2.2	R12J

Test Conditions and equipments

Test frequency: 150MHz Equipment: HP4191A

> PART IDENTIFICATION:





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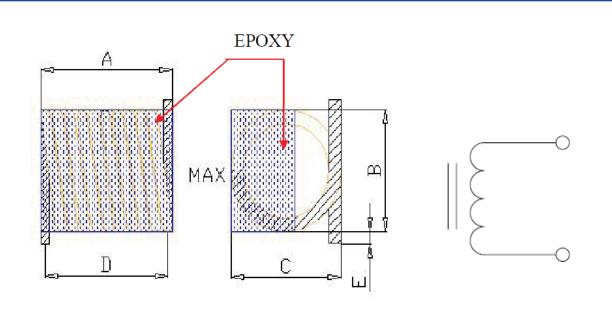
REVISED: 11/09/2020

ABRACON IS ISO9001-20 CERTIFIED

AIAC-1812

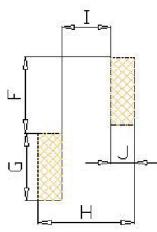


DOUTLINE DRAWING:



Inductance code	Α	B	С	D	E
All others	4.7±0.3	3.5±0.2	3.5±0.2	42+04	1.0±0.3
R12J only	4.9±0.3	3.8±0.2	3.8±0.2	4.3±0.4	

Recommended Landing Pattern



F	G	Η	Ι	J
2.7	5.2	5.8	2.9	1.5

Dimension: inch (mm)



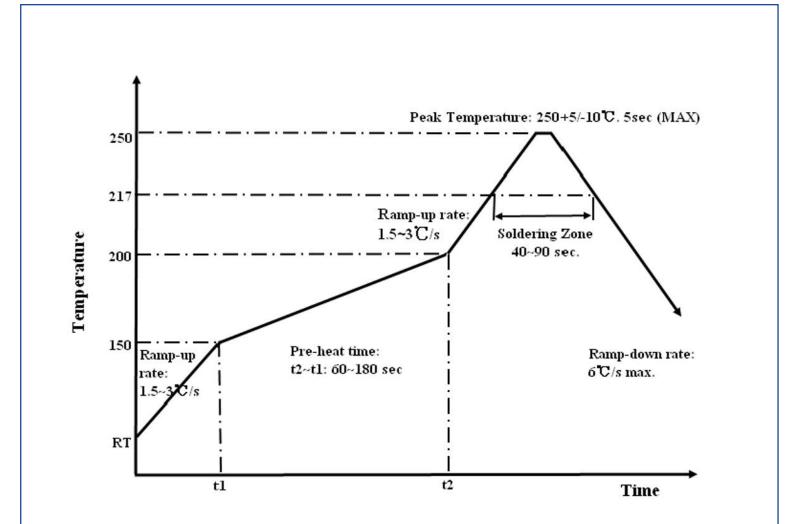
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REFLOW PROFILE:





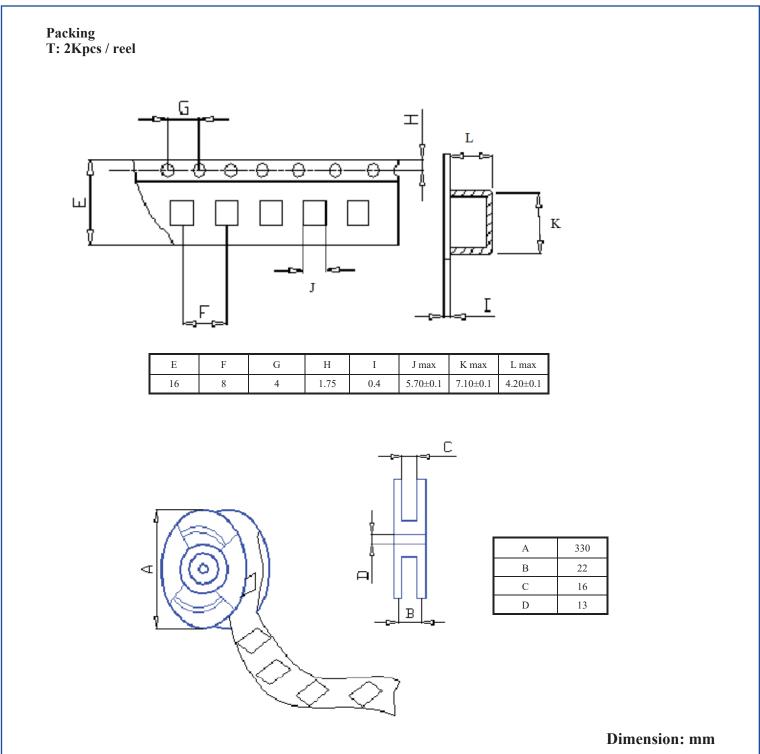
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REVISED: 11/09/2020

ABRACON IS ISO9001-2015 CERTIFIED

AIAC-1812

▷ TAPE & REEL:



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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON:

<u>AIAC-1812-R10J-T</u> <u>AIAC-1812-33NK-T</u> <u>AIAC-1812-56NJ-T</u> <u>AIAC-1812-39NJ-T</u> <u>AIAC-1812-68NJ-T</u> <u>AIAC-1812-68</u>