

AIAC-1008C-82NK-T Datasheet



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DiGi Electronics Part Number AIAC-1008C-82NK-T-DG

Manufacturer Abracon LLC

Manufacturer Product Number AIAC-1008C-82NK-T

Description FIXED IND 82NH 320MA 51.5MOHM SM

Detailed Description 82 nH Unshielded Wirewound Inductor 320 mA 51.

5mOhm Max Nonstandard



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DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
AIAC-1008C-82NK-T	Abracon LLC
Series:	Product Status:
AIAC-1008C	Obsolete
Type:	Material - Core:
Wirewound	Air
Inductance:	Tolerance:
82 nH	±10%
Current Rating (Amps):	Current - Saturation (Isat):
320 mA	
Shielding:	DC Resistance (DCR):
Unshielded	51.5mOhm Max
Q @ Freq:	Frequency - Self Resonant:
70 @ 300MHz	1GHz
Ratings:	Operating Temperature:
	-40°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
300 MHz	Surface Mount
Package / Case:	Supplier Device Package:
Nonstandard	
Size / Dimension:	Height - Seated (Max):
0.126" L x 0.075" W (3.20mm x 1.90mm)	0.087" (2.20mm)

Environmental & Export classification

8504.50.8000

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	

SMT Air Coil Inductor

AIAC-1008C





> 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

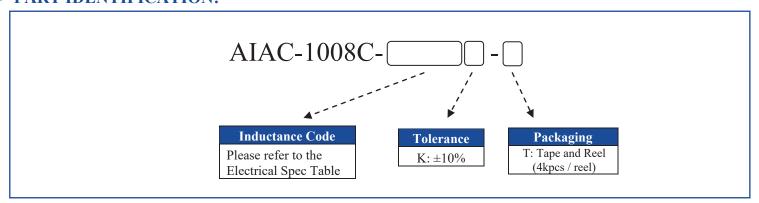
Part Number	Inductance	Tolerance	DCR (Max)	Q(Min)	SRF(Min)	Rated Current (Max)	Inductance Code
Units	nH	%	m Ω		MHz	mA	
Symbol	L	K	DCR			IDC	
AIAC-1008C-6N8	6.8	K	4.0	80	>3000	1200	6N8
AIAC-1008C-8N2	8.2	K	5.0	80	>3000	950	8N2
AIAC-1008C-10N	10	K	6.0	70	>3000	950	10N
AIAC-1008C-12N	12	K	6.5	70	>3000	900	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:





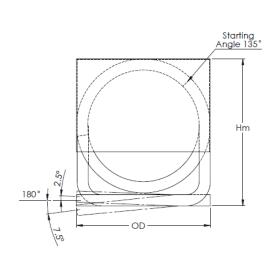
SMT Air Coil Inductor

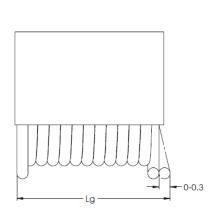
AIAC-1008C

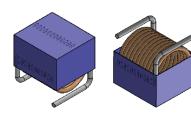


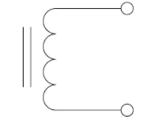


> OUTLINE DRAWING:



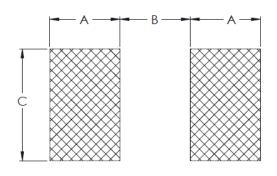






Hm	2.20 Max
OD	1.90 Max
Lg	3.20 Max

Recommended Land Pattern



A	1.02 Min
В	1.27 Min
C	2.54 Min

Dimension: mm



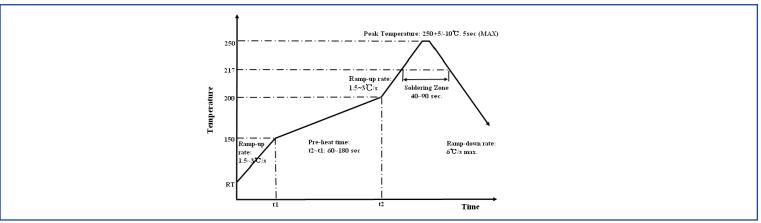
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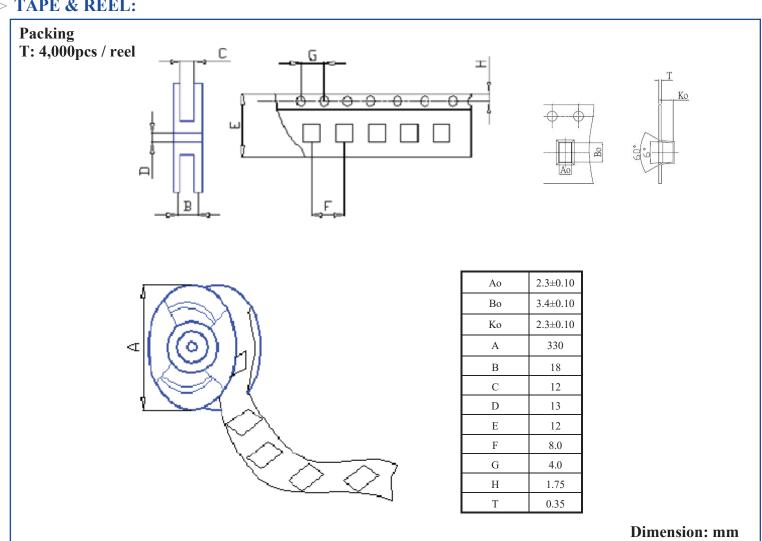




> REFLOW PROFILE:



> TAPE & REEL:



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