

AIAC-1008C-22NK-T Datasheet



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DiGi Electronics Part Number	AIAC-1008C-22NK-T-DG
Manufacturer	Abracon LLC
Manufacturer Product Number	AIAC-1008C-22NK-T
Description	FIXED IND 22NH 840MA 10.8MOHM SM
Detailed Description	22 nH Unshielded Wirewound Inductor 840 mA 10.8mOhm Max Nonstandard



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RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

AIAC-1008C-22NK-T

Series:

AIAC-1008C

Type:

Wirewound

Inductance:

22 nH

Current Rating (Amps):

840 mA

Shielding:

Unshielded

Q @ Freq:

70 @ 300MHz

Ratings:

-

Inductance Frequency - Test:

300 MHz

Package / Case:

Nonstandard

Size / Dimension:

0.126" L x 0.075" W (3.20mm x 1.90mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

Air

Tolerance:

±10%

Current - Saturation (Isat):

-

DC Resistance (DCR):

10.8mOhm Max

Frequency - Self Resonant:

2.4GHz

Operating Temperature:

-40°C ~ 125°C

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.087" (2.20mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

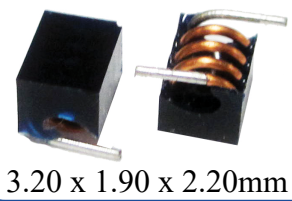
1 (Unlimited)

ECCN:

EAR99

SMT Air Coil Inductor

AIAC-1008C


RoHS
Compliant


3.20 x 1.90 x 2.20mm

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

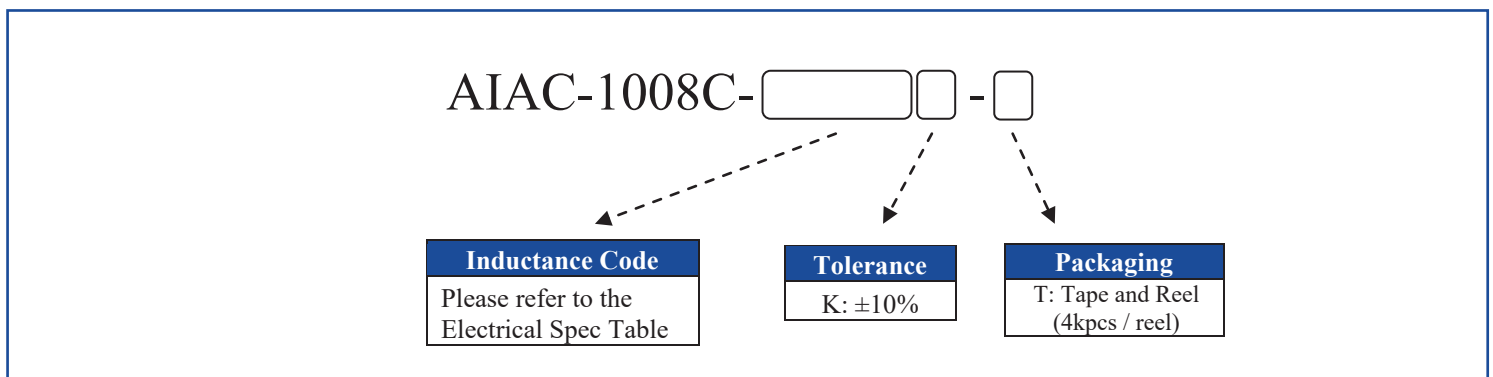
Part Number	Inductance	Tolerance	DCR (Max)	Q(Min)	SRF(Min)	Rated Current (Max)	Inductance Code
Units	nH	%	mΩ		MHz	mA	
Symbol	L	K	DCR			IDC	
AIAC-1008C-6N8	6.8	K	4.0	80	>3000	1200	6N8
AIAC-1008C-8N2	8.2	K	5.0	80	>3000	950	8N2
AIAC-1008C-10N	10	K	6.0	70	>3000	950	10N
AIAC-1008C-12N	12	K	6.5	70	>3000	900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

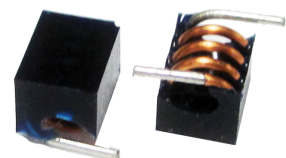


SMT Air Coil Inductor

AIAC-1008C

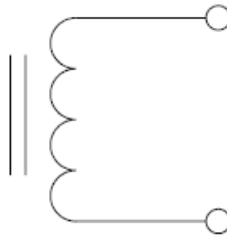
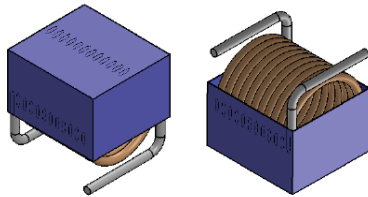
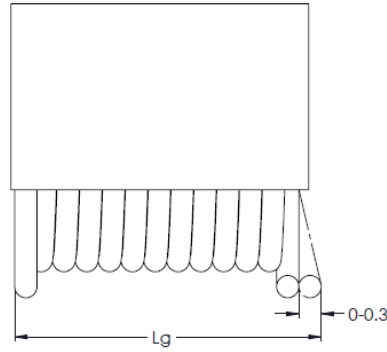
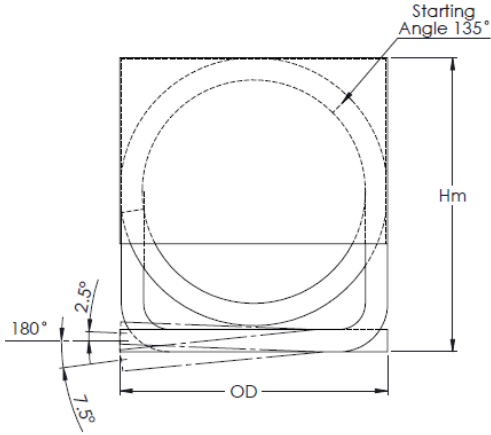


RoHS
Compliant



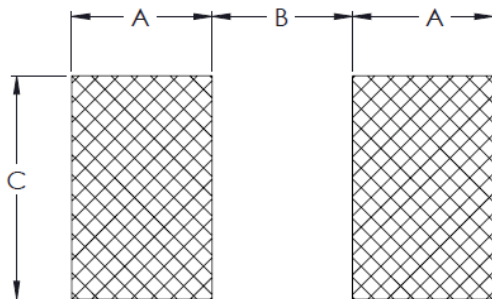
3.20 x 1.90 x 2.20mm

OUTLINE DRAWING:



Hm	2.20 Max
OD	1.90 Max
Lg	3.20 Max

Recommended Land Pattern



A	1.02 Min
B	1.27 Min
C	2.54 Min

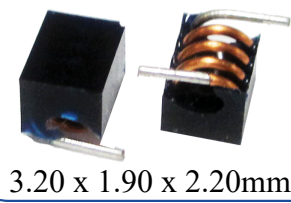
Dimension: mm

SMT Air Coil Inductor

AIAC-1008C

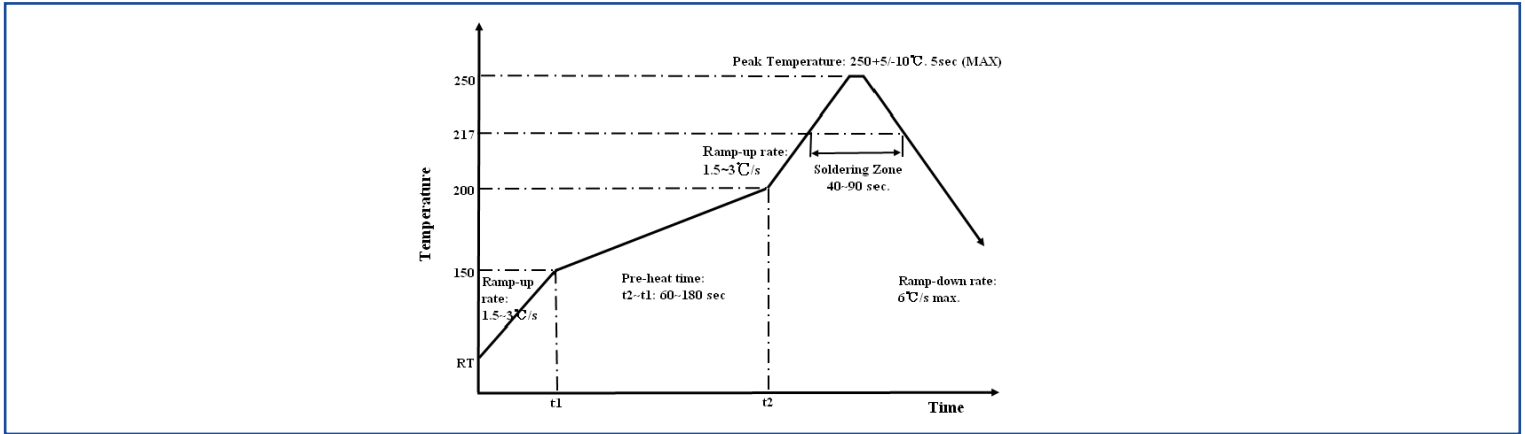


RoHS
Compliant



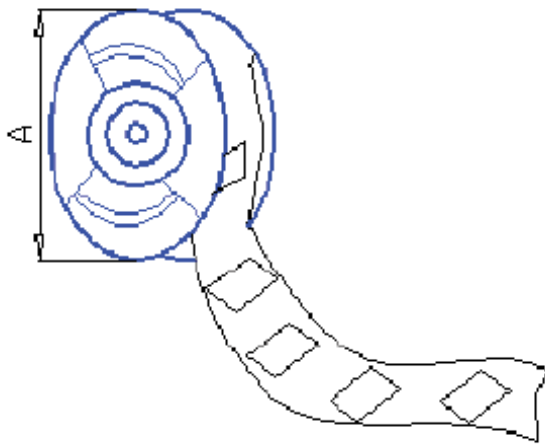
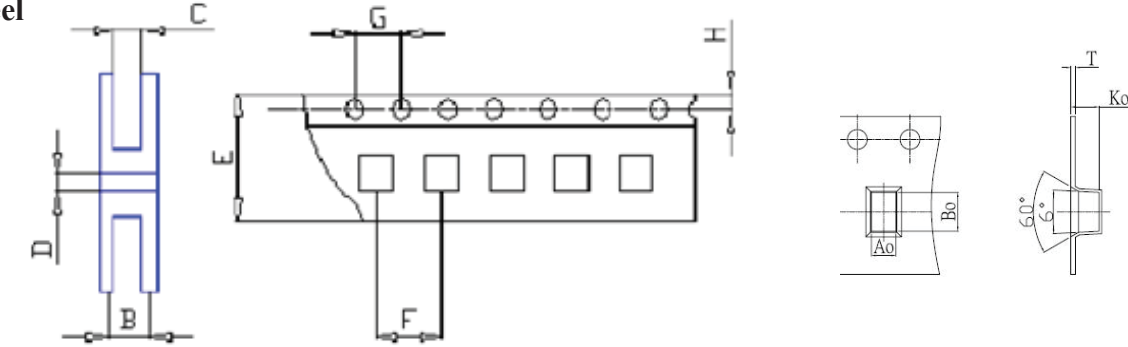
3.20 x 1.90 x 2.20mm

REFLOW PROFILE:



TAPE & REEL:

Packing
T: 4,000pcs / reel



Ao	2.3±0.10
Bo	3.4±0.10
Ko	2.3±0.10
A	330
B	18
C	12
D	13
E	12
F	8.0
G	4.0
H	1.75
T	0.35

Dimension: mm

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