AIAC-2712C-35N5J-T Datasheet
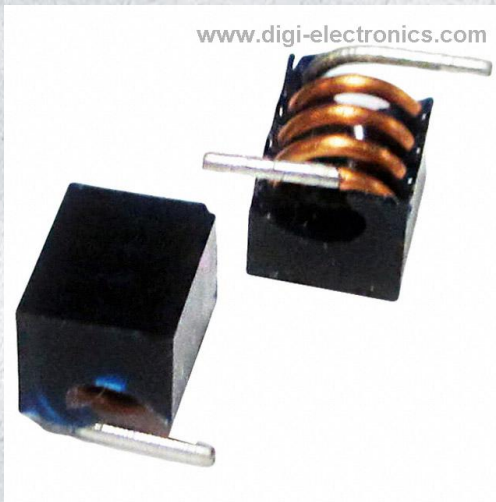
https://www.DiGi-Electronics.com

DiGi Electronics Part Number	AIAC-2712C-35N5J-T-DG
Manufacturer	Abracon LLC
Manufacturer Product Number	AIAC-2712C-35N5J-T
Description	FIXED IND 35.5NH 2.7A 6.2MOHM SM
Detailed Description	35.5 nH Unshielded Wirewound Inductor 2.7 A 6.2m Ohm Max Nonstandard

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
AIAC-2712C-35N5J-T	Abracon LLC
Series:	Product Status:
AIAC-2712C	Active
Type:	Material - Core:
Wirewound	Air
Inductance:	Tolerance:
35.5 nH	±5%
Current Rating (Amps):	Current - Saturation (Isat):
2.7 A	-
Shielding:	DC Resistance (DCR):
Unshielded	6.2mOhm Max
Q @ Freq:	Frequency - Self Resonant:
100 @ 150MHz	1.2GHz
Ratings:	Operating Temperature:
-	-40°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
150 MHz	Surface Mount
Package / Case:	Supplier Device Package:
Nonstandard	-
Size / Dimension:	Height - Seated (Max):
0.236" L x 0.098" W (6.00mm x 2.50mm)	0.110" (2.80mm)

Environmental & Export classification

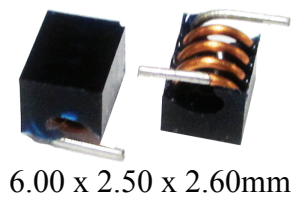|	
RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.8000	

SMT Air Coil Inductor

AIAC-2712C

RoHS
Compliant

6.00 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-2712C
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-2712C-17N5	17.50	J	4.5	100.0	2.2	3.5	17N5J
AIAC-2712C-22N0	22.00	J	5.0	100.0	2.0	3.0	22N0J
AIAC-2712C-28N0	28.00	J	5.6	100.0	1.8	2.8	28N0J
AIAC-2712C-35N5	35.50	J	6.2	100.0	1.2	2.7	35N5J
AIAC-2712C-43N5	43.50	J	6.7	100.0	1.0	2.5	43N5J

Test Conditions and equipments
Test frequency: 150MHz
Equipment: HP4191A

▷ **PART IDENTIFICATION:**

AIAC-2712C-☐☐-☐

Inductance Code	Tolerance	Packaging
Please refer to the Electrical Spec Table	J: ±5%	T: Tape and Reel (2,000kpcs / reel)
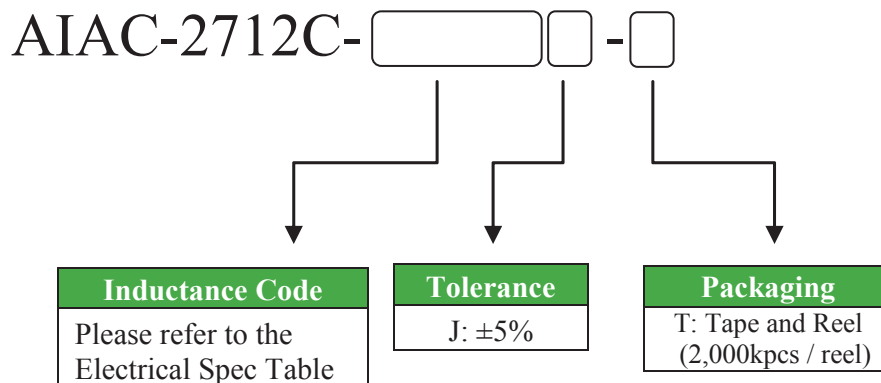
SMT Air Coil Inductor

AIAC-2712C
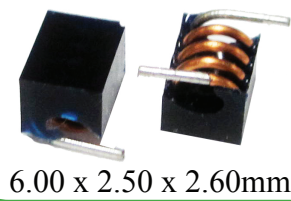
RoHS
Compliant

6.00 x 2.50 x 2.60mm

▷ OUTLINE DRAWING:

EPOXY

MAX
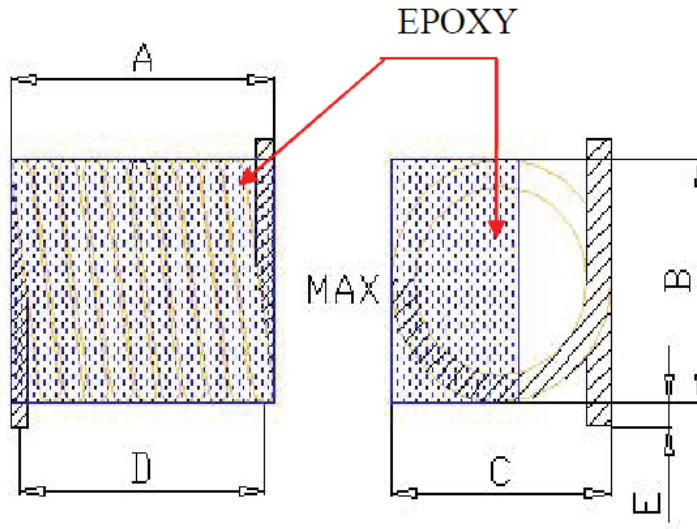
A	**B**	**C**	**D**	**E**
6.00±0.3	2.50±0.2	2.60±0.2	5.80±0.3	0.70±0.2

Schematic
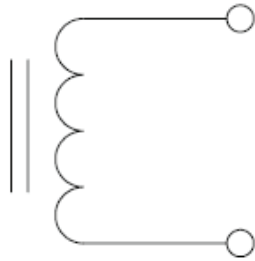
Recommended Land Pattern
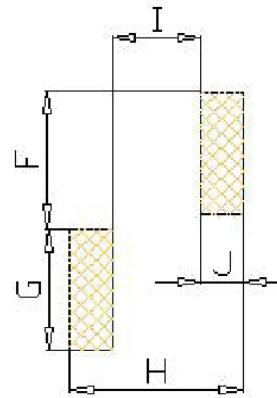
F	**G**	**H**	**I**	**J**
2.8	3.3	7.4	4.9	1.3

Dimension: mm

ABRACON CORPORATION

Revised: 11.20.12

SMT Air Coil Inductor

AIAC-2712C

RoHS
Compliant
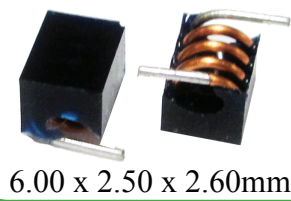
6.00 x 2.50 x 2.60mm

▷ REFLOW PROFILE:
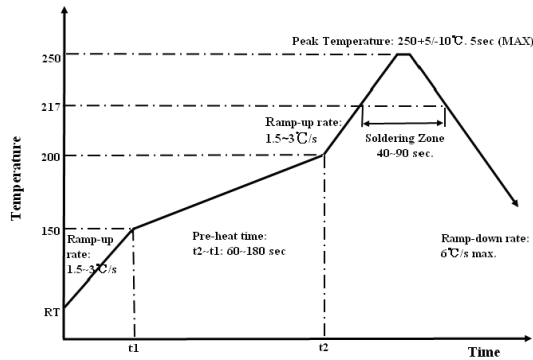
▷ TAPE & REEL:

Packing
T: 2,000pcs / reel
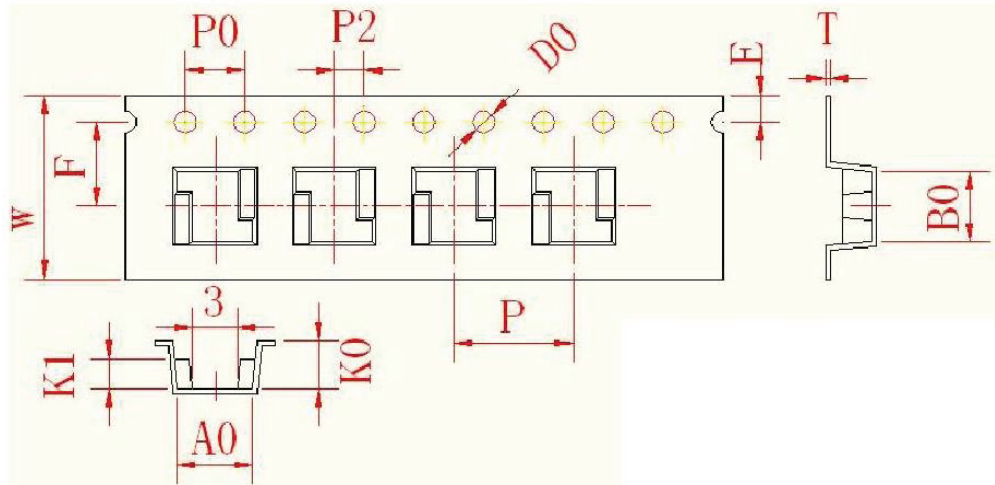
W	A0	B0	K0	K1	P	F	E	D0	P0	P2	T
16.0±0.3	4.7±0.1	6.8±0.1	3.2±0.1	2.0±0.1	8.0±0.1	7.5±0.1	1.75±0.1	1.5+0.1/-0	4.0±0.1	2.0±0.1	0.35±0.05
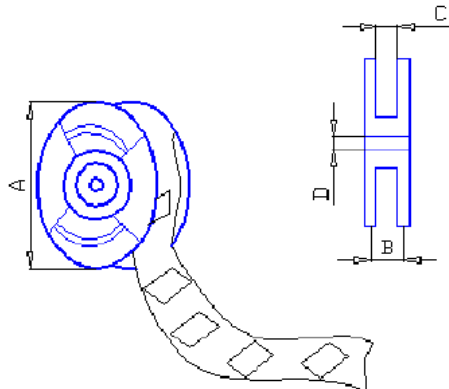
A	330
B	22
C	16
D	13

Dimension: mm

![DiGi Electronics logo]

OUR CERTIFICATE

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