

AIRD-01-420K Datasheet



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DiGi Electronics Part Number	AIRD-01-420K-DG
Manufacturer	Abracon LLC
Manufacturer Product Number	AIRD-01-420K
Description	FIXED IND 42UH 3.8A 50 MOHM TH
Detailed Description	42 μ H Unshielded Drum Core, Wirewound Inductor 3.8 A 50mOhm Max Radial, Vertical Cylinder



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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:

AIRD-01-420K

Series:

AIRD-01

Type:

Drum Core, Wirewound

Inductance:

42 μ H

Current Rating (Amps):

3.8 A

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

1 kHz

Package / Case:

Radial, Vertical Cylinder

Size / Dimension:

0.650" Dia (16.50mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 10%

Current - Saturation (Isat):

11.3A

DC Resistance (DCR):

50mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-25°C ~ 85°C

Mounting Type:

Through Hole

Supplier Device Package:

-

Height - Seated (Max):

0.827" (21.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

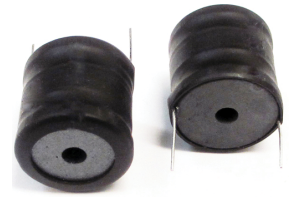
1 (Unlimited)

ECCN:

EAR99

THRU-HOLE DRUM CORE POWER INDUCTORS

AIRD-01


RoHS
Compliant
21.0 x ϕ 16.5 mm

FEATURES

- Ferrite core with UL tube
- Wire wound construction
- High current, low DCR

APPLICATIONS:

- Electronic Appliance
- Power Supplies
- TRIAC/SCR Control Circuits

STANDARD SPECIFICATIONS

Operating Temperature: -40°C ~ +125°C (including self-heat)

Storage Temperature: -40°C ~ +125°C

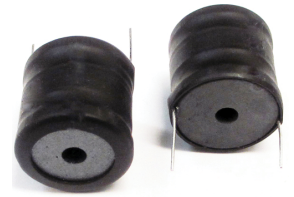
Part Number	Inductance	Tolerance	DCR (Max)	Saturation Current (Max)	Temperature Rise Current (Max)
Units	μ H	%	Ω	A	A
Symbol	L	K, M, N	DCR	Isat	Irms
AIRD-01-1R0	1.0	N	0.003	87.0	9.0
AIRD-01-1R2	1.2	N	0.003	68.0	9.0
AIRD-01-1R5	1.5	N	0.004	56.0	9.0
AIRD-01-1R8	1.8	N	0.004	56.0	9.0
AIRD-01-2R2	2.2	N	0.005	47.0	9.0
AIRD-01-2R7	2.7	N	0.005	47.0	9.0
AIRD-01-3R3	3.3	M	0.005	40.0	9.0
AIRD-01-3R9	3.9	M	0.006	36.0	9.0
AIRD-01-4R7	4.7	M	0.007	32.0	9.0
AIRD-01-5R6	5.6	M	0.007	29.0	9.0
AIRD-01-6R8	6.8	M	0.008	26.0	9.0
AIRD-01-8R2	8.2	M	0.009	24.5	9.0
AIRD-01-100	10	K	0.010	21.2	9.0
AIRD-01-120	12	K	0.011	19.0	9.0
AIRD-01-150	15	K	0.015	17.5	7.2
AIRD-01-180	18	K	0.016	16.5	7.2
AIRD-01-220	22	K	0.025	15.8	5.5
AIRD-01-270	27	K	0.030	14.4	4.5
AIRD-01-330	33	K	0.040	13.2	4.0
AIRD-01-390	39	K	0.046	11.8	4.0
AIRD-01-420	42	K	0.050	11.3	3.8
AIRD-01-470	47	K	0.062	11.0	2.8
AIRD-01-560	56	K	0.069	10.0	2.8
AIRD-01-680	68	K	0.077	8.9	2.8
AIRD-01-820	82	K	0.083	8.2	2.8
AIRD-01-101	100	K	0.095	7.5	2.8
AIRD-01-121	120	K	0.127	5.8	2.0
AIRD-01-151	150	K	0.181	5.6	1.6
AIRD-01-181	180	K	0.217	5.1	1.6
AIRD-01-221	220	K	0.240	4.3	1.6
AIRD-01-271	270	K	0.300	4.1	1.6
AIRD-01-331	330	K	0.336	3.8	1.3
AIRD-01-391	390	K	0.460	3.3	1.0
AIRD-01-471	470	K	0.636	3.2	0.8
AIRD-01-561	560	K	0.696	2.9	0.8
AIRD-01-681	680	K	0.700	2.9	0.8

Test Conditions and equipments

Test frequency: 1KHz 0.25V_{RMS}

Irms: Δ T of 40°C temperature rise max

THRU-HOLE DRUM CORE POWER INDUCTORS



21.0 x ϕ 16.5 mm

AIRD-01



RoHS
Compliant

➤ PART NUMBER IDENTIFICATION

AIRD-01-

Inductance Code

Please refer to the
Electrical Spec Table

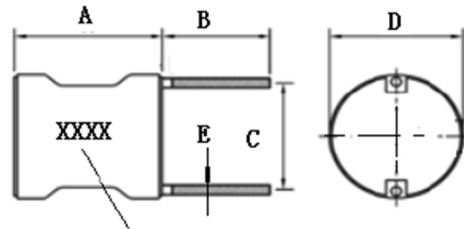
Tolerance

N: $\pm 30\%$

M: $\pm 20\%$

K: $\pm 10\%$

➤ MECHANICAL DIMENSIONS



Inductance Code
e.g. 1R0 M
8R2M
681K

A	B	C	D	E
21.0 (max)	12.5 \pm 1	14.5 \pm 1	16.5 (max)	1.6 (max)

Packaging (100 Pcs/Box)

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