

AIRD-06-391K Datasheet



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| | |
|------------------------------|--|
| DiGi Electronics Part Number | AIRD-06-391K-DG |
| Manufacturer | Abracon LLC |
| Manufacturer Product Number | AIRD-06-391K |
| Description | FIXED IND 390UH 1.6A 320 MOHM TH |
| Detailed Description | 390 μ H Unshielded Drum Core, Wirewound Inductor 1.6 A 320mOhm Max Radial, Vertical Cylinder |



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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

AIRD-06-391K

Series:

AIRD-06

Type:

Drum Core, Wirewound

Inductance:

390 μ H

Current Rating (Amps):

1.6 A

Shielding:

Unshielded

Q @ Freq:

15 @ 50kHz

Ratings:

-

Inductance Frequency - Test:

1 kHz

Package / Case:

Radial, Vertical Cylinder

Size / Dimension:

0.827" Dia (21.00mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 10%

Current - Saturation (Isat):

4.9A

DC Resistance (DCR):

320mOhm 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:

8504.50.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

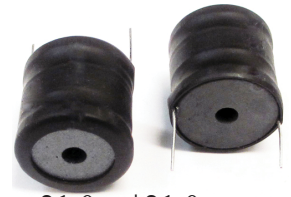
EAR99

Power Line Inductor

AIRD-06



RoHS
Compliant



21.0 x ϕ 21.0 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 | Q min | DCR (Max) | Saturation Current (Max) | Temperature Rise Current (Max) | Inductance Code |
|-------------|------------|-----------|-------|-----------|--------------------------|--------------------------------|-----------------|
| Units | μ H | % | | Ω | A | A | |
| Symbol | L | K, M, N | | DCR | Isat | Irms | |
| AIRD-06-1R0 | 1.0 | N | 15 | 0.003 | 108 | 11.4 | 1R0M |
| AIRD-06-1R2 | 1.2 | N | 15 | 0.003 | 108 | 11.4 | 1R0M |
| AIRD-06-1R5 | 1.5 | N | 15 | 0.003 | 83 | 11.4 | 1R5M |
| AIRD-06-1R8 | 1.8 | N | 15 | 0.003 | 68 | 11.4 | 1R8M |
| AIRD-06-2R2 | 2.2 | N | 15 | 0.004 | 68 | 11.4 | 2R2M |
| AIRD-06-2R7 | 2.7 | N | 15 | 0.005 | 58 | 11.4 | 2R7M |
| AIRD-06-3R3 | 3.3 | M | 15 | 0.005 | 58 | 11.4 | 3R3M |
| AIRD-06-3R9 | 3.9 | M | 15 | 0.005 | 50 | 11.4 | 3R9M |
| AIRD-06-4R7 | 4.7 | M | 15 | 0.005 | 50 | 11.4 | 4R7M |
| AIRD-06-5R6 | 5.6 | M | 15 | 0.006 | 44 | 11.4 | 5R6M |
| AIRD-06-6R8 | 6.8 | M | 15 | 0.007 | 39 | 11.4 | 6R8M |
| AIRD-06-8R2 | 8.2 | M | 15 | 0.007 | 36 | 11.4 | 8R2M |
| AIRD-06-100 | 10 | K | 15 | 0.009 | 30 | 11.4 | 100K |
| AIRD-06-120 | 12 | K | 15 | 0.009 | 27 | 11.4 | 120K |
| AIRD-06-150 | 15 | K | 15 | 0.013 | 25 | 9.0 | 150K |
| AIRD-06-180 | 18 | K | 15 | 0.018 | 22 | 7.2 | 180K |
| AIRD-06-220 | 22 | K | 15 | 0.019 | 21 | 7.2 | 220K |
| AIRD-06-270 | 27 | K | 15 | 0.026 | 20.5 | 5.5 | 270K |
| AIRD-06-330 | 33 | K | 15 | 0.029 | 18.6 | 5.5 | 330K |
| AIRD-06-390 | 39 | K | 15 | 0.030 | 17.0 | 5.5 | 390K |
| AIRD-06-470 | 47 | K | 15 | 0.035 | 15.1 | 5.5 | 470K |
| AIRD-06-560 | 56 | K | 15 | 0.039 | 13.6 | 5.5 | 560K |
| AIRD-06-680 | 68 | K | 15 | 0.053 | 12.7 | 4.8 | 680K |
| AIRD-06-820 | 82 | K | 15 | 0.060 | 11.3 | 4.8 | 820K |
| AIRD-06-101 | 100 | K | 15 | 0.080 | 10.4 | 4.0 | 101K |
| AIRD-06-121 | 120 | K | 15 | 0.090 | 9.4 | 4.0 | 121K |
| AIRD-06-151 | 150 | K | 15 | 0.098 | 8.6 | 4.0 | 151K |
| AIRD-06-181 | 180 | K | 15 | 0.110 | 7.8 | 4.0 | 181K |
| AIRD-06-221 | 220 | K | 15 | 0.150 | 7.0 | 2.8 | 221K |
| AIRD-06-271 | 270 | K | 15 | 0.213 | 6.3 | 2.0 | 271K |
| AIRD-06-331 | 330 | K | 15 | 0.305 | 5.2 | 1.6 | 331K |
| AIRD-06-391 | 390 | K | 15 | 0.320 | 4.9 | 1.6 | 391K |
| AIRD-06-471 | 470 | K | 15 | 0.355 | 4.5 | 1.6 | 471K |
| AIRD-06-561 | 560 | K | 15 | 0.388 | 4.1 | 1.6 | 561K |
| AIRD-06-681 | 680 | K | 15 | 0.430 | 3.7 | 1.6 | 681K |
| AIRD-06-821 | 820 | K | 15 | 0.590 | 3.4 | 1.3 | 821K |
| AIRD-06-102 | 1000 | K | 15 | 0.818 | 3.1 | 1.0 | 102K |
| AIRD-06-122 | 1200 | K | 15 | 1.140 | 2.7 | 0.8 | 122K |
| AIRD-06-152 | 1500 | K | 15 | 1.260 | 2.4 | 0.8 | 152K |
| AIRD-06-182 | 1800 | K | 15 | 1.390 | 2.2 | 0.8 | 182K |
| AIRD-06-222 | 2200 | K | 15 | 1.540 | 2.0 | 0.8 | 222K |

Test Conditions and equipments

Test frequency: 1KHz 0.25V_{RMS}

Irms: Δ T of 40°C temperature rise max



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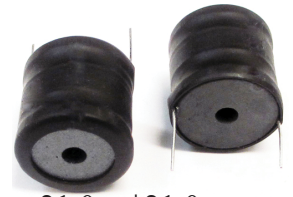
ABRACON IS
ISO9001-2015
CERTIFIED

Power Line Inductor

AIRD-06



RoHS
Compliant



21.0 x ϕ 21.0 mm

➤ PART NUMBER IDENTIFICATION

AIRD-06-

Inductance Code

Please refer to the
Electrical Spec Table

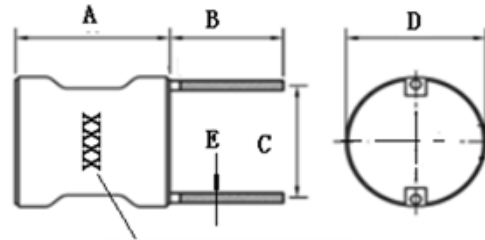
Tolerance

N: \pm 30%

M: \pm 20%

K: \pm 10%

➤ MECHANICAL DIMENSIONS



Inductance Code
e.g. 8R2M
681K

| A | B | C | D | E |
|------------|--------------|--------------|------------|-----------|
| 21.0 (max) | 12.5 \pm 1 | 19.0 \pm 1 | 21.0 (max) | 1.8 (max) |

Dimension: inch (mm)

Packaging (50 Pcs/Box)

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