

# AIRD-06-1R5M Datasheet



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|                              |   |
|------------------------------|---|
| DiGi Electronics Part Number | AIRD-06-1R5M-DG   |
| Manufacturer                 | <a href="#">Abracon LLC</a>   |
| Manufacturer Product Number  | AIRD-06-1R5M  |
| Description                  | FIXED IND 1.5UH 11.4A 3 MOHM TH   |
| Detailed Description         | 1.5 $\mu$ H Unshielded Drum Core, Wirewound Inductor 11.4 A 3mOhm Max Radial, Vertical Cylinder |



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## Purchase and inquiry

Manufacturer Product Number:

AIRD-06-1R5M

Series:

AIRD-06

Type:

Drum Core, Wirewound

Inductance:

1.5  $\mu$ H

Current Rating (Amps):

11.4 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:

Obsolete

Material - Core:

Ferrite

Tolerance:

$\pm$ 20%

Current - Saturation (Isat):

83A

DC Resistance (DCR):

3mOhm 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:

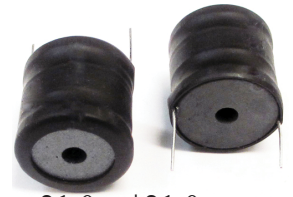
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# Power Line Inductor

## AIRD-06



**RoHS**  
Compliant



21.0 x  $\phi$ 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       | $\mu$ H    | %         |       | $\Omega$  | 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<sub>RMS</sub>

Irms:  $\Delta$ T of 40°C temperature rise max



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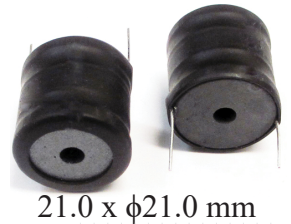
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# Power Line Inductor

AIRD-06



RoHS  
Compliant



21.0 x φ21.0 mm

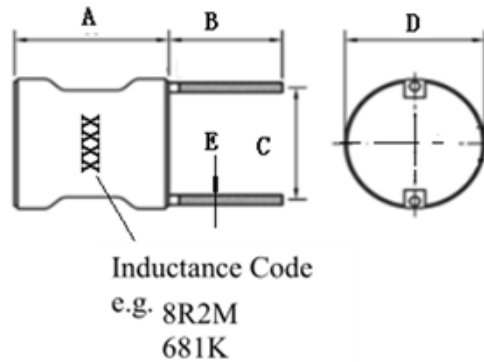
## ➤ PART NUMBER IDENTIFICATION

AIRD-06-  

**Inductance Code**  
Please refer to the  
Electrical Spec Table

| Tolerance |
|-----------|
| N: ±30%   |
| M: ±20%   |
| K: ±10%   |

## ➤ MECHANICAL DIMENSIONS



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

Dimension: inch (mm)

## Packaging (50 Pcs/Box)

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