

# Unshielded Radial Power Inductor

AIUR-06 Series



RoHS/RoHS II Compliant



18.03 x  $\phi$ 13.0mm

## FEATURES:

- Ferrite core with heat shrink tube
- High Reliability

## APPLICATIONS:

- Switching Power Supplies
- Noise Filtering
- DC to DC Converters
- Electronic Household Appliances
- Buzzers and Alarm Systems
- Television and Audio Equipment

## STANDARD SPECIFICATIONS:

### PARAMETERS

|                        |                |
|------------------------|----------------|
| ABRACON P/N:           | AIUR-06 Series |
| Operating temperature: | -25°C ~ +85°C  |
| Storage temperature:   | -25°C ~ +85°C  |

| Part Number | Inductance | Tolerance | DCR (Max) | Saturation Current (Max) | Temperature Rise Current (Max) | Inductance Code |
|-------------|------------|-----------|-----------|--------------------------|--------------------------------|-----------------|
| Units       | $\mu$ H    | %         | $\Omega$  | A                        | A                              |                 |
| Symbol      | L          | K         | DCR       | Isat                     | I <sub>DC</sub>                |                 |
| AIUR-06-3R9 | 3.9        | K         | 0.016     | 14.2                     | 6.5                            | 3R9K            |
| AIUR-06-4R7 | 4.7        | K         | 0.018     | 13.0                     | 6.2                            | 4R7K            |
| AIUR-06-5R6 | 5.6        | K         | 0.021     | 11.0                     | 5.9                            | 5R6K            |
| AIUR-06-6R8 | 6.8        | K         | 0.023     | 10.0                     | 5.6                            | 6R8K            |
| AIUR-06-8R2 | 8.2        | K         | 0.026     | 9.5                      | 5.3                            | 8R2K            |
| AIUR-06-100 | 10         | K         | 0.031     | 8.8                      | 5.0                            | 100K            |
| AIUR-06-120 | 12         | K         | 0.036     | 7.9                      | 4.6                            | 120K            |
| AIUR-06-150 | 15         | K         | 0.040     | 7.1                      | 4.4                            | 150K            |
| AIUR-06-180 | 18         | K         | 0.041     | 7.4                      | 4.2                            | 180K            |
| AIUR-06-220 | 22         | K         | 0.043     | 6.1                      | 4.0                            | 220K            |
| AIUR-06-270 | 27         | K         | 0.046     | 5.5                      | 3.8                            | 270K            |
| AIUR-06-330 | 33         | K         | 0.051     | 5.2                      | 3.6                            | 330K            |
| AIUR-06-390 | 39         | K         | 0.054     | 4.5                      | 3.3                            | 390K            |
| AIUR-06-470 | 47         | K         | 0.063     | 4.1                      | 3.2                            | 470K            |
| AIUR-06-560 | 56         | K         | 0.075     | 3.8                      | 2.7                            | 560K            |
| AIUR-06-680 | 68         | K         | 0.078     | 3.5                      | 2.4                            | 680K            |
| AIUR-06-820 | 82         | K         | 0.088     | 3.1                      | 2.2                            | 820K            |
| AIUR-06-101 | 100        | K         | 0.108     | 2.8                      | 2.1                            | 101K            |
| AIUR-06-121 | 120        | K         | 0.127     | 2.6                      | 2.0                            | 121K            |
| AIUR-06-151 | 150        | K         | 0.162     | 2.4                      | 1.9                            | 151K            |
| AIUR-06-181 | 180        | K         | 0.228     | 2.1                      | 1.6                            | 181K            |
| AIUR-06-221 | 220        | K         | 0.252     | 1.9                      | 1.5                            | 221K            |
| AIUR-06-271 | 270        | K         | 0.270     | 1.75                     | 1.4                            | 271K            |
| AIUR-06-331 | 330        | K         | 0.394     | 1.62                     | 1.3                            | 331K            |
| AIUR-06-391 | 390        | K         | 0.416     | 1.40                     | 1.1                            | 391K            |
| AIUR-06-471 | 470        | K         | 0.568     | 1.30                     | 1.0                            | 471K            |
| AIUR-06-561 | 560        | K         | 0.650     | 1.20                     | 0.95                           | 561K            |
| AIUR-06-681 | 680        | K         | 0.740     | 1.10                     | 0.82                           | 681K            |
| AIUR-06-821 | 820        | K         | 1.0       | 0.96                     | 0.75                           | 821K            |
| AIUR-06-102 | 1000       | K         | 1.2       | 0.88                     | 0.65                           | 102K            |
| AIUR-06-122 | 1200       | K         | 1.5       | 0.80                     | 0.61                           | 122K            |
| AIUR-06-152 | 1500       | K         | 1.7       | 0.72                     | 0.54                           | 152K            |
| AIUR-06-182 | 1800       | K         | 1.8       | 0.66                     | 0.46                           | 182K            |
| AIUR-06-222 | 2200       | K         | 2.4       | 0.60                     | 0.41                           | 222K            |
| AIUR-06-272 | 2700       | K         | 2.8       | 0.54                     | 0.39                           | 272K            |
| AIUR-06-332 | 3300       | K         | 3.7       | 0.48                     | 0.35                           | 332K            |
| AIUR-06-392 | 3900       | K         | 5.0       | 0.42                     | 0.31                           | 392K            |
| AIUR-06-472 | 4700       | K         | 5.6       | 0.40                     | 0.28                           | 472K            |
| AIUR-06-562 | 5600       | K         | 6.3       | 0.37                     | 0.25                           | 562K            |
| AIUR-06-682 | 6800       | K         | 8.4       | 0.34                     | 0.22                           | 682K            |
| AIUR-06-822 | 8200       | K         | 9.6       | 0.31                     | 0.20                           | 822K            |
| AIUR-06-103 | 10000      | K         | 10.5      | 0.29                     | 0.16                           | 103K            |
| AIUR-06-123 | 12000      | K         | 14.5      | 0.25                     | 0.13                           | 123K            |
| AIUR-06-153 | 15000      | K         | 20.5      | 0.23                     | 0.10                           | 153K            |

## Test Conditions and equipments

Test frequency: 1kHz, 0.1Vrms

Isat: max. 10% inductance drop from initial value

IDC: The DC current at which the temperature rise is 40°C max

ABRACON IS  
ISO 9001:2008  
CERTIFIED



**ABRACON**  
CORPORATION

Visit [www.abracon.com](http://www.abracon.com) for Terms & Conditions of Sale

30332 Esperanza, Rancho Santa Margarita, California 92688  
tel 949-546-8000 | fax 949-546-8001 | [www.abracon.com](http://www.abracon.com)

Revised: 05.25.2016

# Unshielded Radial Power Inductor

AIUR-06 Series



RoHS/RoHS II Compliant



18.03 x  $\phi$ 13.0mm

## PART IDENTIFICATIONS:

AIUR-06-  

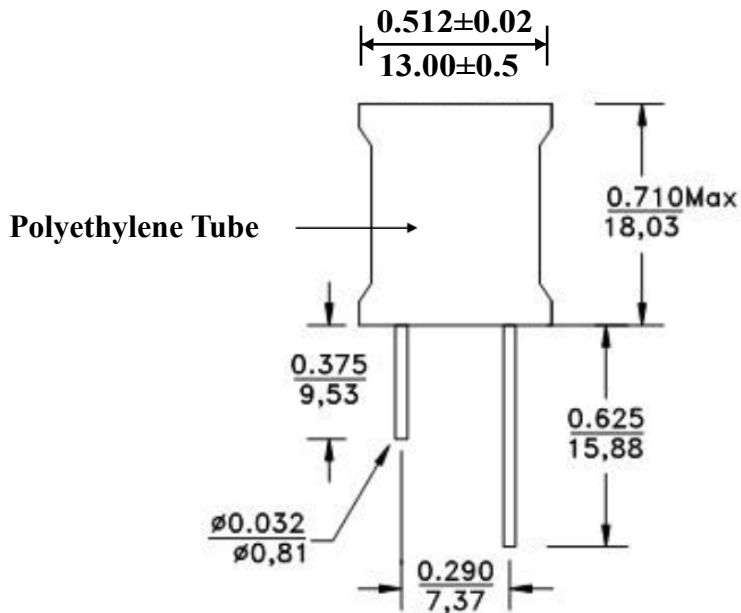
### Inductance Code

Please refer to the  
Electrical Spec Table

### Tolerance

K:  $\pm 10\%$

## OUTLINE DRAWING:



Dimension: mm

Packing (250pcs / Box)

**ATTENTION:** Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

ABRACON IS  
ISO 9001:2008  
CERTIFIED



**ABRACON**  
CORPORATION

Visit [www.abracon.com](http://www.abracon.com) for Terms & Conditions of Sale

30332 Esperanza, Rancho Santa Margarita, California 92688  
tel 949-546-8000 | fax 949-546-8001 | [www.abracon.com](http://www.abracon.com)

Revised: 05.25.2016

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## ABRACON:

[AIUR-06-100K](#) [AIUR-06-101K](#) [AIUR-06-102K](#) [AIUR-06-103K](#) [AIUR-06-120K](#) [AIUR-06-121K](#) [AIUR-06-122K](#) [AIUR-06-123K](#) [AIUR-06-150K](#) [AIUR-06-151K](#) [AIUR-06-152K](#) [AIUR-06-153K](#) [AIUR-06-180K](#) [AIUR-06-181K](#) [AIUR-06-182K](#) [AIUR-06-220K](#) [AIUR-06-221K](#) [AIUR-06-222K](#) [AIUR-06-270K](#) [AIUR-06-271K](#) [AIUR-06-272K](#) [AIUR-06-330K](#) [AIUR-06-331K](#) [AIUR-06-332K](#) [AIUR-06-390K](#) [AIUR-06-391K](#) [AIUR-06-392K](#) [AIUR-06-3R9K](#) [AIUR-06-470K](#) [AIUR-06-471K](#) [AIUR-06-472K](#) [AIUR-06-4R7K](#) [AIUR-06-560K](#) [AIUR-06-561K](#) [AIUR-06-562K](#) [AIUR-06-5R6K](#) [AIUR-06-680K](#) [AIUR-06-681K](#) [AIUR-06-682K](#) [AIUR-06-6R8K](#) [AIUR-06-820K](#) [AIUR-06-821K](#) [AIUR-06-822K](#) [AIUR-06-8R2K](#)