

# Unshielded Radial Power Inductor

AIUR-12 Series



RoHS  
Compliant



7.20 x ø8.20mm

## 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-12 Series  |
| Operating temperature: | -40°C to + 85°C |
| Storage temperature:   | -55°C to + 25°C |

| Part Number | Inductance | Tolerance | DCR (Max) | Rated Current (Max) | SRF (Max) | Q (Min) | Inductance Code |
|-------------|------------|-----------|-----------|---------------------|-----------|---------|-----------------|
| Units       | μH         | %         | Ω         | A                   | MHz       |         |                 |
| Symbol      | L          | K         | DCR       | IDC                 |           |         |                 |
| AIUR-12-100 | 10         | K         | 0.07      | 1.50                | 20.0      | 30      | 100K            |
| AIUR-12-150 | 15         | K         | 0.08      | 1.10                | 10.0      | 30      | 150K            |
| AIUR-12-220 | 22         | K         | 0.11      | 1.00                | 10.0      | 30      | 220K            |
| AIUR-12-330 | 33         | K         | 0.15      | 0.92                | 5.0       | 30      | 330K            |
| AIUR-12-470 | 47         | K         | 0.28      | 0.78                | 5.0       | 30      | 470K            |
| AIUR-12-680 | 68         | K         | 0.30      | 0.77                | 2.0       | 30      | 680K            |
| AIUR-12-101 | 100        | K         | 0.50      | 0.66                | 2.0       | 30      | 101K            |
| AIUR-12-151 | 150        | K         | 0.54      | 0.52                | 2.0       | 30      | 151K            |
| AIUR-12-221 | 220        | K         | 1.05      | 0.44                | 2.0       | 30      | 221K            |
| AIUR-12-331 | 330        | K         | 1.21      | 0.38                | 2.0       | 30      | 331K            |
| AIUR-12-471 | 470        | K         | 1.87      | 0.31                | 1.0       | 30      | 471K            |
| AIUR-12-681 | 680        | K         | 2.70      | 0.25                | 1.0       | 30      | 681K            |
| AIUR-12-102 | 1000       | K         | 3.80      | 0.17                | 1.0       | 30      | 102K            |
| AIUR-12-152 | 1500       | K         | 5.40      | 0.13                | 1.0       | 30      | 152K            |
| AIUR-12-182 | 1800       | K         | 6.80      | 0.12                | 1.0       | 30      | 182K            |
| AIUR-12-222 | 2200       | K         | 11.00     | 0.11                | 1.0       | 30      | 222K            |
| AIUR-12-472 | 4700       | K         | 18.00     | 0.07                | 0.3       | 30      | 472K            |

### Test Conditions and equipments

Test frequency: 100KHz, 0.1Vrms

Rated Current: The DC current at which the inductance drops to 90% of its initial value

## PART IDENTIFICATION:

AIUR-12-

Packing (484pcs / Box)

**Inductance Code**

Please refer to the  
Electrical Spec Table

**Tolerance**

K: ±10%

ABRACON IS  
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CERTIFIED



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Revised: 09.21.12

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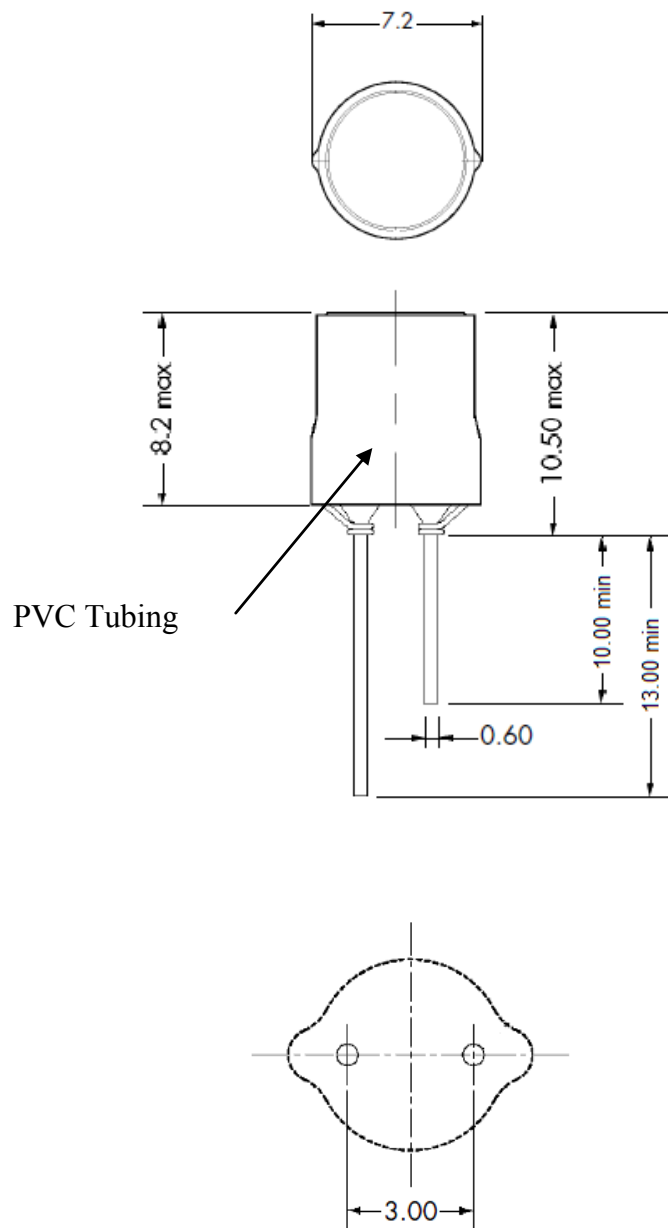


RoHS  
Compliant



7.20 x  $\phi$ 8.20mm

## OUTLINE DRAWING:



Dimension: mm

**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.

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