

# Unshielded Radial Power Inductor

AIUR-12 Series



RoHS/RoHS II compliant



7.20 x  $\phi$ 8.20mm

## 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 + 85°C |

| Part Number<br>AIUR-12-<br>Inductance Code | Inductance | Tolerance | DCR<br>(Max) | Rated Current<br>(Max) | SRF<br>(Max) | Q<br>(Min) | Marking |
|--|------------|-----------|--------------|------------------------|--------------|------------|---------|
| Units                                      | $\mu$ H    | %         | $\Omega$     | 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 or when temperature rise reaches 30°C, whichever is sooner.

## PART IDENTIFICATION:

AIUR-12-

Packing (484pcs / Box)

### Inductance Code

Please refer to the  
Electrical Spec Table

### Tolerance

K:  $\pm$ 10%

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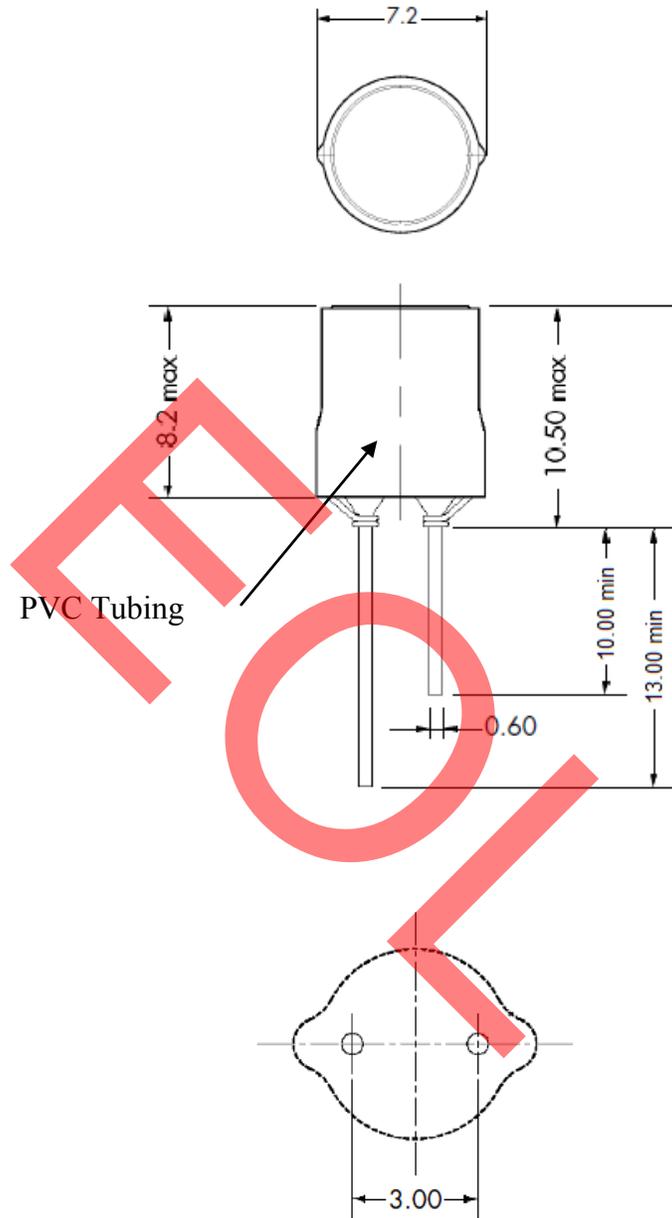


RoHS  
Compliant



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.

ABRACON IS  
ISO 9001:2008  
CERTIFIED



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