

# Unshielded Radial Power Inductor

AIUR-11 Series



11.43 x  $\phi$ 9.53mm

## 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-11 Series   |
| Operating temperature: | -40°C to + 85°C  |
| Storage temperature:   | -40°C to + 125°C |

| Part Number<br>AIUR-11-<br>Inductance Code | Inductance | Tolerance | DCR<br>(Max) | I <sub>DC</sub> (Max) | I <sub>RMS</sub> (Max) | Marking |
|--|------------|-----------|--------------|-----------------------|------------------------|---------|
| Units                                      | $\mu$ H    | %         | $\Omega$     | A                     | A                      |         |
| Symbol                                     | L          | M, K      | DCR          | I <sub>DC</sub>       | I <sub>RMS</sub>       |         |
| AIUR-11-3R9                                | 3.9        | M         | 0.022        | 6.80                  | 1.60                   | 3R9M    |
| AIUR-11-4R7                                | 4.7        | M         | 0.024        | 6.20                  | 1.60                   | 4R7M    |
| AIUR-11-5R6                                | 5.6        | M         | 0.025        | 5.60                  | 1.60                   | 5R6M    |
| AIUR-11-6R8                                | 6.8        | M         | 0.028        | 5.10                  | 1.60                   | 6R8M    |
| AIUR-11-8R2                                | 8.2        | M         | 0.030        | 4.60                  | 1.60                   | 8R2M    |
| AIUR-11-100                                | 10         | K         | 0.034        | 4.20                  | 1.60                   | 100K    |
| AIUR-11-120                                | 12         | K         | 0.038        | 3.80                  | 1.60                   | 120K    |
| AIUR-11-150                                | 15         | K         | 0.043        | 3.30                  | 1.60                   | 150K    |
| AIUR-11-180                                | 18         | K         | 0.049        | 3.10                  | 1.60                   | 180K    |
| AIUR-11-120                                | 22         | K         | 0.054        | 2.70                  | 1.60                   | 120K    |
| AIUR-11-270                                | 27         | K         | 0.059        | 2.50                  | 1.60                   | 270K    |
| AIUR-11-330                                | 33         | K         | 0.066        | 2.30                  | 1.60                   | 330K    |
| AIUR-11-390                                | 39         | K         | 0.078        | 2.20                  | 1.60                   | 390K    |
| AIUR-11-470                                | 47         | K         | 0.102        | 1.90                  | 1.30                   | 470K    |
| AIUR-11-560                                | 56         | K         | 0.138        | 1.60                  | 1.00                   | 560K    |
| AIUR-11-680                                | 68         | K         | 0.168        | 1.45                  | 1.00                   | 680K    |
| AIUR-11-820                                | 82         | K         | 0.174        | 1.30                  | 1.00                   | 820K    |
| AIUR-11-101                                | 100        | K         | 0.180        | 1.20                  | 1.00                   | 101K    |
| AIUR-11-121                                | 120        | K         | 0.234        | 1.10                  | 0.80                   | 121K    |
| AIUR-11-151                                | 150        | K         | 0.276        | 1.00                  | 0.80                   | 151K    |
| AIUR-11-181                                | 180        | K         | 0.300        | 0.92                  | 0.80                   | 181K    |
| AIUR-11-221                                | 220        | K         | 0.353        | 0.86                  | 0.80                   | 221K    |
| AIUR-11-271                                | 270        | K         | 0.500        | 0.76                  | 0.62                   | 271K    |
| AIUR-11-331                                | 330        | K         | 0.635        | 0.700                 | 0.490                  | 331K    |
| AIUR-11-391                                | 390        | K         | 0.720        | 0.620                 | 0.490                  | 391K    |
| AIUR-11-471                                | 470        | K         | 0.816        | 0.600                 | 0.490                  | 471K    |
| AIUR-11-561                                | 560        | K         | 1.030        | 0.540                 | 0.385                  | 561K    |
| AIUR-11-681                                | 680        | K         | 1.200        | 0.510                 | 0.385                  | 681K    |
| AIUR-11-821                                | 820        | K         | 1.54         | 0.450                 | 0.300                  | 821K    |
| AIUR-11-102                                | 1000       | K         | 2.16         | 0.390                 | 0.246                  | 102K    |
| AIUR-11-122                                | 1200       | K         | 2.40         | 0.360                 | 0.246                  | 122K    |
| AIUR-11-152                                | 1500       | K         | 2.76         | 0.340                 | 0.246                  | 152K    |
| AIUR-11-182                                | 1800       | K         | 3.60         | 0.300                 | 0.190                  | 182K    |
| AIUR-11-222                                | 2200       | K         | 4.00         | 0.245                 | 0.190                  | 222K    |
| AIUR-11-272                                | 2700       | K         | 6.00         | 0.238                 | 0.150                  | 272K    |
| AIUR-11-332                                | 3300       | K         | 6.72         | 0.225                 | 0.150                  | 332K    |
| AIUR-11-392                                | 3900       | K         | 8.80         | 0.200                 | 0.120                  | 392K    |
| AIUR-11-472                                | 4700       | K         | 11.00        | 0.185                 | 0.095                  | 472K    |
| AIUR-11-562                                | 5600       | K         | 13.20        | 0.170                 | 0.095                  | 562K    |
| AIUR-11-682                                | 6800       | K         | 14.50        | 0.150                 | 0.095                  | 682K    |

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Revised: 09.28.12

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AIUR-11 Series



RoHS  
Compliant



| Part Number<br>AIUR-11-<br>Inductance Code | Inductance | Tolerance | DCR<br>(Max) | I <sub>DC</sub> (Max) | I <sub>RMS</sub> (Max) | Marking |
|--|------------|-----------|--------------|-----------------------|------------------------|---------|
| Units                                      | $\mu$ H    | %         | $\Omega$     | A                     | A                      |         |
| Symbol                                     | L          | K         | DCR          | I <sub>DC</sub>       | I <sub>RMS</sub>       |         |
| AIUR-11-822                                | 8200       | K         | 16.55        | 0.140                 | 0.095                  | 822K    |
| AIUR-11-103                                | 10000      | K         | 20.40        | 0.130                 | 0.076                  | 103K    |
| AIUR-11-123                                | 12000      | K         | 24.00        | 0.120                 | 0.076                  | 123K    |
| AIUR-11-153                                | 15000      | K         | 27.60        | 0.100                 | 0.076                  | 153K    |
| AIUR-11-183                                | 18000      | K         | 37.20        | 0.096                 | 0.060                  | 183K    |
| AIUR-11-223                                | 22000      | K         | 42.00        | 0.088                 | 0.060                  | 223K    |
| AIUR-11-273                                | 27000      | K         | 58.80        | 0.082                 | 0.046                  | 273K    |
| AIUR-11-333                                | 33000      | K         | 64.80        | 0.074                 | 0.046                  | 333K    |
| AIUR-11-393                                | 39000      | K         | 72.00        | 0.064                 | 0.046                  | 393K    |
| AIUR-11-473                                | 47000      | K         | 94.20        | 0.046                 | 0.036                  | 473K    |
| AIUR-11-563                                | 56000      | K         | 105.00       | 0.043                 | 0.036                  | 563K    |
| AIUR-11-683                                | 68000      | K         | 115.00       | 0.040                 | 0.036                  | 683K    |

## Test Conditions

Test frequency: 1KHz, 0.1Vrms

I<sub>DC</sub>: The DC current at which L drops 5% typical from its initial value

I<sub>RMS</sub>:  $\Delta T < 40^{\circ}\text{C}$  temperature rise

## PART IDENTIFICATION:

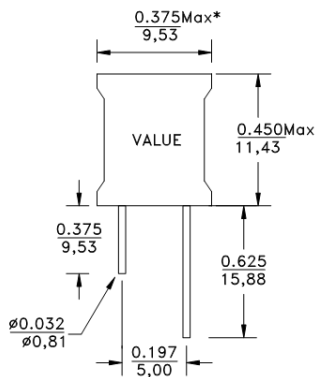
AIUR-11-  

Packing (420pcs / Box)

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

**Tolerance**  
M:  $\pm 20\%$   
K:  $\pm 10\%$

## OUTLINE DRAWING:



Dimension: inch/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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