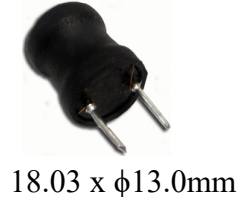


# Unshielded Radial Power Inductor

AIUR-06 Series

 RoHS/RoHS II Compliant



18.03 x φ13.0mm

## 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

## ELECTRICAL SPECIFICATIONS:

| Part Number | Inductance | Tolerance | DCR (Max) | Saturation Current (Max) | Temperature Rise Current (Max) | Inductance Code |
|-------------|------------|-----------|-----------|--------------------------|--------------------------------|-----------------|
| Units       | μH         | %         | Ω         | A                        | A                              |                 |
| Symbol      | L          | K         | DCR       | I <sub>sat</sub>         | 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        | J, K      | 0.108     | 2.8                      | 2.1                            | 101K            |
| AIUR-06-121 | 120        | J, K      | 0.127     | 2.6                      | 2.0                            | 121K            |
| AIUR-06-151 | 150        | J, K      | 0.162     | 2.4                      | 1.9                            | 151K            |
| AIUR-06-181 | 180        | J, K      | 0.228     | 2.1                      | 1.6                            | 181K            |
| AIUR-06-221 | 220        | J, K      | 0.252     | 1.9                      | 1.5                            | 221K            |
| AIUR-06-271 | 270        | J, K      | 0.270     | 1.75                     | 1.4                            | 271K            |
| AIUR-06-331 | 330        | J, K      | 0.394     | 1.62                     | 1.3                            | 331K            |
| AIUR-06-391 | 390        | J, K      | 0.416     | 1.40                     | 1.1                            | 391K            |
| AIUR-06-471 | 470        | J, K      | 0.568     | 1.30                     | 1.0                            | 471K            |
| AIUR-06-561 | 560        | J, K      | 0.650     | 1.20                     | 0.95                           | 561K            |
| AIUR-06-681 | 680        | J, K      | 0.740     | 1.10                     | 0.82                           | 681K            |
| AIUR-06-821 | 820        | J, K      | 1.0       | 0.96                     | 0.75                           | 821K            |
| AIUR-06-102 | 1000       | J, K      | 1.2       | 0.88                     | 0.65                           | 102K            |
| AIUR-06-122 | 1200       | J, K      | 1.5       | 0.80                     | 0.61                           | 122K            |
| AIUR-06-152 | 1500       | J, K      | 1.7       | 0.72                     | 0.54                           | 152K            |
| AIUR-06-182 | 1800       | J, K      | 1.8       | 0.66                     | 0.46                           | 182K            |
| AIUR-06-222 | 2200       | J, K      | 2.4       | 0.60                     | 0.41                           | 222K            |
| AIUR-06-272 | 2700       | J, K      | 2.8       | 0.54                     | 0.39                           | 272K            |
| AIUR-06-332 | 3300       | J, K      | 3.7       | 0.48                     | 0.35                           | 332K            |
| AIUR-06-392 | 3900       | J, K      | 5.0       | 0.42                     | 0.31                           | 392K            |
| AIUR-06-472 | 4700       | J, K      | 5.6       | 0.40                     | 0.28                           | 472K            |
| AIUR-06-562 | 5600       | J, K      | 6.3       | 0.37                     | 0.25                           | 562K            |
| AIUR-06-682 | 6800       | J, K      | 8.4       | 0.34                     | 0.22                           | 682K            |
| AIUR-06-822 | 8200       | J, K      | 9.6       | 0.31                     | 0.20                           | 822K            |
| AIUR-06-103 | 10000      | J, K      | 10.5      | 0.29                     | 0.16                           | 103K            |
| AIUR-06-123 | 12000      | J, K      | 14.5      | 0.25                     | 0.13                           | 123K            |
| AIUR-06-153 | 15000      | J, K      | 20.5      | 0.23                     | 0.10                           | 153K            |

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## Test Conditions and equipments

Test frequency: 1kHz 0.25Vrms

$I_{DC}$ : 10% inductance drops typical

$I_{sat}$ : max. 10% inductance drop from initial value

**Operating Temperature:** -40°C ~ +125 °C (including self-heating)

**Storage Temperature:** -40°C ~ +125 °C

**Operating Voltage (COILS-CORE):** 500V MAX

## ➤ PART IDENTIFICATION:

AIUR-06-

Packing (200pcs / Bag)

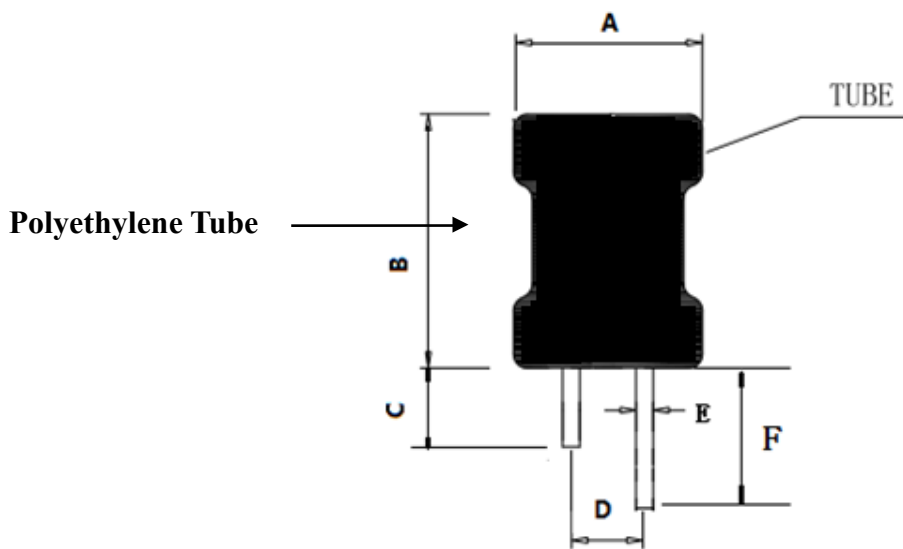
### Inductance Code

Please refer to the Electrical Spec Table

### Tolerance

J:  $\pm 5\%$   
K:  $\pm 10\%$

## ➤ OUTLINE DRAWING:



| A        | B        | C           | D       | E   | F            |
|----------|----------|-------------|---------|-----|--------------|
| 13.5 MAX | 18.0 MAX | 9.5 $\pm 1$ | 7.5 REF | 0.8 | 15.8 $\pm 1$ |

Dimension: mm

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