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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Unshielded Radial Power Inductor

AIUR-05 Series

 RoHS/RoHS II Compliant



9.0 x  $\phi$ 8.5 mm

## 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-05 Series   |
| Operating temperature: | -25°C to + 85°C  |
| Storage temperature:   | -25°C to + 125°C |

| Part Number | Inductance | Tolerance | Q (Min) | Test Frequency | DCR (Max) | Saturation Current (Max) | Temperature Rise Current (Max) | SRF (Min) | Inductance Code |
|-------------|------------|-----------|---------|----------------|-----------|--------------------------|--------------------------------|-----------|-----------------|
| Units       | $\mu$ H    | %         |         | MHz            | $\Omega$  | A                        | A                              | MHz       |                 |
| Symbol      | L          | M, K      |         |                | DCR       | Isat                     | I <sub>DC</sub>                |           |                 |
| AIUR-05-2R2 | 2.2        | M         | 10      | 7.96           | 0.012     | 5.00                     | 3.0                            | 50        | 2R2M            |
| AIUR-05-3R3 | 3.3        | M         | 10      | 7.96           | 0.013     | 4.50                     | 2.8                            | 38        | 3R3M            |
| AIUR-05-4R7 | 4.7        | M         | 10      | 7.96           | 0.017     | 3.70                     | 2.7                            | 30        | 4R7M            |
| AIUR-05-6R8 | 6.8        | M         | 10      | 7.96           | 0.022     | 3.10                     | 2.3                            | 24        | 6R8M            |
| AIUR-05-100 | 10         | K         | 10      | 2.52           | 0.031     | 2.50                     | 2.1                            | 19        | 100K            |
| AIUR-05-150 | 15         | K         | 10      | 2.52           | 0.042     | 2.00                     | 1.4                            | 15        | 150K            |
| AIUR-05-220 | 22         | K         | 10      | 2.52           | 0.070     | 1.60                     | 1.2                            | 12        | 220K            |
| AIUR-05-330 | 33         | K         | 10      | 2.52           | 0.092     | 1.30                     | 1.0                            | 10        | 330K            |
| AIUR-05-470 | 47         | K         | 10      | 2.52           | 0.130     | 1.10                     | 0.9                            | 8.2       | 470K            |
| AIUR-05-680 | 68         | K         | 10      | 2.52           | 0.160     | 0.91                     | 0.63                           | 6.6       | 680K            |
| AIUR-05-101 | 100        | K         | 10      | 0.796          | 0.230     | 0.75                     | 0.59                           | 5.4       | 101K            |
| AIUR-05-151 | 150        | K         | 10      | 0.796          | 0.400     | 0.61                     | 0.46                           | 4.3       | 151K            |
| AIUR-05-221 | 220        | K         | 10      | 0.796          | 0.530     | 0.50                     | 0.38                           | 3.5       | 221K            |
| AIUR-05-331 | 330        | K         | 10      | 0.796          | 0.780     | 0.41                     | 0.30                           | 2.8       | 331K            |
| AIUR-05-471 | 470        | K         | 10      | 0.796          | 1.000     | 0.34                     | 0.28                           | 2.3       | 471K            |
| AIUR-05-681 | 680        | K         | 10      | 0.796          | 1.500     | 0.28                     | 0.22                           | 1.9       | 680K            |
| AIUR-05-102 | 1000       | K         | 10      | 0.252          | 2.200     | 0.23                     | 0.18                           | 1.5       | 102K            |
| AIUR-05-152 | 1500       | K         | 10      | 0.252          | 3.500     | 0.18                     | 0.15                           | 1.2       | 152K            |

### Test Conditions and equipments

DCR: QuadTech Milliohmmeter

Isat: 10% inductance drops from initial value

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

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## OPTIONS & PART IDENTIFICATION:

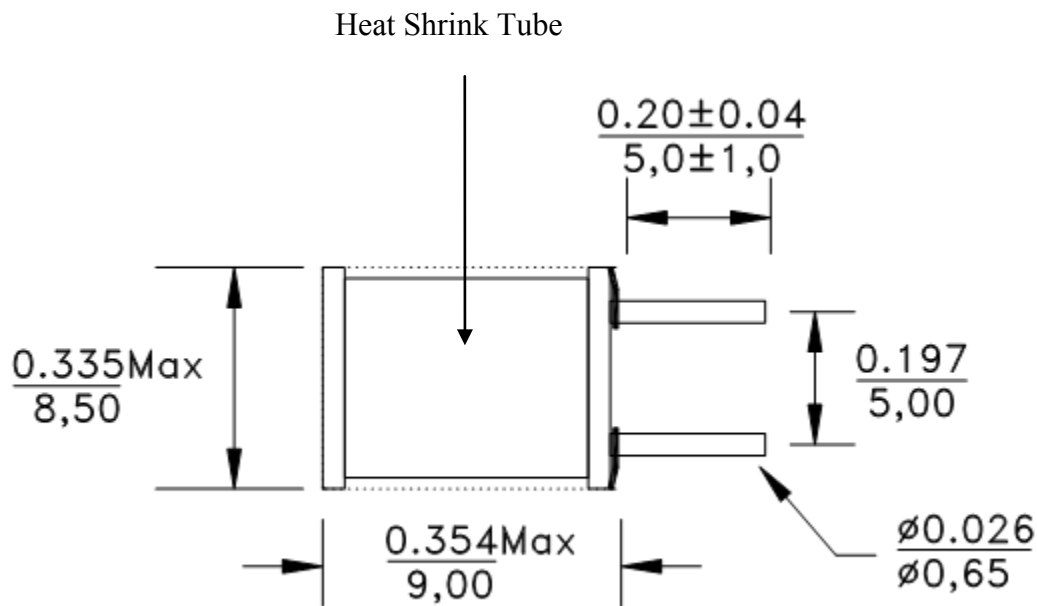
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AIUR-05-

Packing (200pcs / box)

| Inductance Code                           | Tolerance     |
|---|---------------|
| Please refer to the Electrical Spec Table | 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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