

# Mini Drum Core Inductor

AIUR-02H Series



RoHS/RoHS II compliant



12.0 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-02H Series                           |
| Operating temperature: | -40°C to + 125°C (including self-heating) |
| Storage temperature:   | -40°C to + 125°C                          |

| Part Number  | Inductance | Tolerance | DCR (Max) | Saturation Current (Max) | Temperature Rise Current (Max) | Inductance Code |
|--------------|------------|-----------|-----------|--------------------------|--------------------------------|-----------------|
| Units        | $\mu$ H    | %         | $\Omega$  | A                        |                                |                 |
| Symbol       | L          | K, M, N   | DCR       | Isat                     | I <sub>DC</sub>                |                 |
| AIUR-02H-1R0 | 1.0        | N         | 0.021     | 8.60                     | 3.5                            | 1R0N            |
| AIUR-02H-2R2 | 2.2        | M         | 0.026     | 6.30                     | 3.2                            | 2R2M            |
| AIUR-02H-3R3 | 3.3        | M         | 0.030     | 5.40                     | 2.7                            | 3R3M            |
| AIUR-02H-4R7 | 4.7        | M         | 0.034     | 4.60                     | 2.5                            | 4R7M            |
| AIUR-02H-6R8 | 6.8        | M         | 0.037     | 4.10                     | 2.3                            | 6R8M            |
| AIUR-02H-100 | 10         | K         | 0.044     | 3.40                     | 2.0                            | 100K            |
| AIUR-02H-120 | 12         | K         | 0.049     | 3.10                     | 1.9                            | 120K            |
| AIUR-02H-150 | 15         | K         | 0.054     | 2.90                     | 1.8                            | 150K            |
| AIUR-02H-180 | 18         | K         | 0.058     | 2.66                     | 1.6                            | 180K            |
| AIUR-02H-220 | 22         | K         | 0.065     | 2.40                     | 1.4                            | 220K            |
| AIUR-02H-270 | 27         | K         | 0.072     | 2.20                     | 1.3                            | 270K            |
| AIUR-02H-330 | 33         | K         | 0.080     | 2.05                     | 1.1                            | 330K            |
| AIUR-02H-390 | 39         | K         | 0.101     | 1.85                     | 1.1                            | 390K            |
| AIUR-02H-470 | 47         | K         | 0.121     | 1.77                     | 0.99                           | 470K            |
| AIUR-02H-560 | 56         | K         | 0.145     | 1.48                     | 0.90                           | 560K            |
| AIUR-02H-680 | 68         | K         | 0.161     | 1.36                     | 0.81                           | 680K            |
| AIUR-02H-820 | 82         | K         | 0.174     | 1.30                     | 0.76                           | 820K            |
| AIUR-02H-101 | 100        | K         | 0.21      | 1.40                     | 0.72                           | 101K            |
| AIUR-02H-121 | 120        | K         | 0.24      | 1.25                     | 0.67                           | 121K            |
| AIUR-02H-151 | 150        | K         | 0.27      | 1.15                     | 0.61                           | 151K            |
| AIUR-02H-181 | 180        | K         | 0.30      | 1.08                     | 0.54                           | 181K            |
| AIUR-02H-221 | 220        | K         | 0.34      | 1.00                     | 0.50                           | 221K            |
| AIUR-02H-271 | 270        | K         | 0.39      | 0.90                     | 0.41                           | 271K            |
| AIUR-02H-331 | 330        | K         | 0.62      | 0.78                     | 0.39                           | 331K            |
| AIUR-02H-391 | 390        | K         | 0.69      | 0.74                     | 0.37                           | 391K            |
| AIUR-02H-471 | 470        | K         | 0.77      | 0.68                     | 0.32                           | 471K            |
| AIUR-02H-561 | 560        | K         | 0.83      | 0.64                     | 0.30                           | 561K            |
| AIUR-02H-681 | 680        | K         | 0.94      | 0.59                     | 0.27                           | 681K            |
| AIUR-02H-821 | 820        | K         | 1.03      | 0.56                     | 0.24                           | 821K            |
| AIUR-02H-102 | 1000       | K         | 1.30      | 0.51                     | 0.22                           | 102K            |
| AIUR-02H-222 | 2200       | K         | 3.00      | 0.20                     | 0.10                           | 222K            |

## Test Conditions and equipments

Test frequency: 1KHz, 0.25V

Isat: 30% inductance drops from initial value.

I<sub>DC</sub>: The DC current at which the temperature rise is 40°C max

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## ➤ OPTIONS & PART IDENTIFICATION:

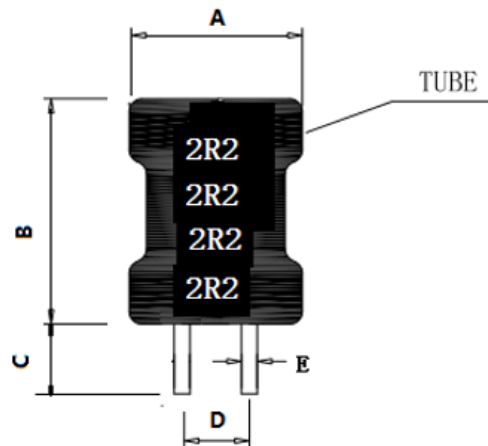
AIUR-02H  -

| Lead Length |
|-------------|
| Blank: 5mm  |

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

| Tolerance    |
|--------------|
| K: $\pm$ 10% |
| M: $\pm$ 20% |
| N: $\pm$ 30% |

## ➤ MECHANICAL DIMENSIONS:



| A         | B          | C           | D    | E   |
|-----------|------------|-------------|------|-----|
| 9.0 (max) | 12.0 (max) | 5.0 $\pm$ 1 | 5Ref | 0.6 |

Dimension: inch/mm

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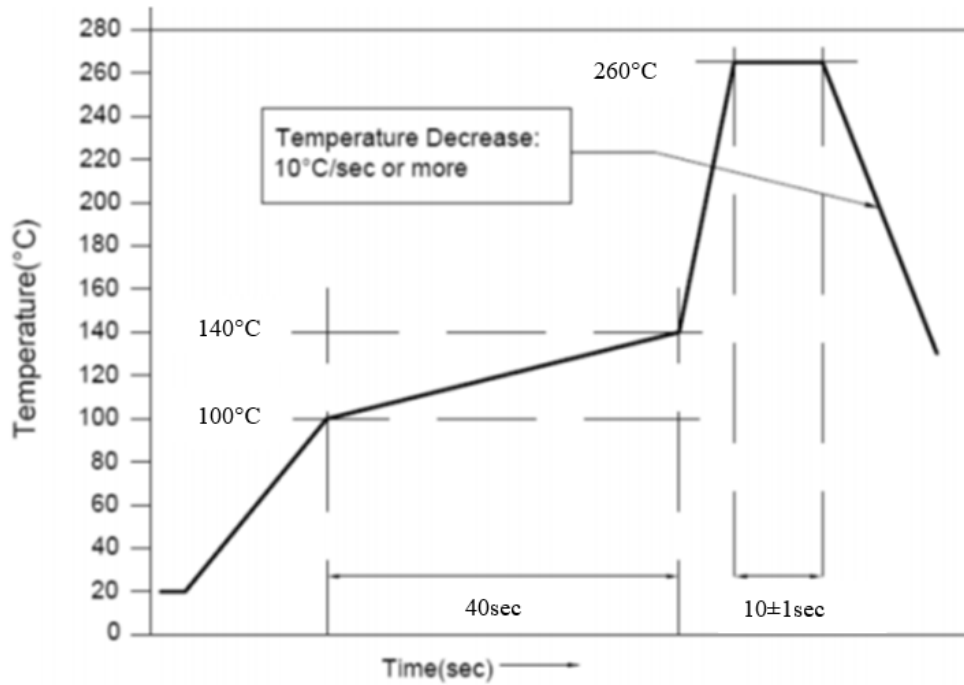


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## WAVE SOLDERING PROFILE:



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REVISED: 03-05-21

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