

AIUR-02H-120K Datasheet



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| | |
|------------------------------|---|
| DiGi Electronics Part Number | AIUR-02H-120K-DG |
| Manufacturer | Abracon LLC |
| Manufacturer Product Number | AIUR-02H-120K |
| Description | FIXED IND 12UH 1.9A 49 MOHM TH |
| Detailed Description | 12 μ H Unshielded Drum Core, Wirewound Inductor 1.9 A 49mOhm Max Radial, Vertical Cylinder |



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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

AIUR-02H-120K

Series:

AIUR-02H

Type:

Drum Core, Wirewound

Inductance:

12 μ H

Current Rating (Amps):

1.9 A

Shielding:

Unshielded

Q @ Freq:

20 @ 2.52MHz

Ratings:

-

Inductance Frequency - Test:

1 kHz

Package / Case:

Radial, Vertical Cylinder

Size / Dimension:

0.335" Dia (8.50mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 10%

Current - Saturation (Isat):

3.1A

DC Resistance (DCR):

49mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Mounting Type:

Through Hole

Supplier Device Package:

-

Height - Seated (Max):

0.472" (12.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

Mini Drum Core Inductor

AIUR-02H Series



RoHS/RoHS II compliant

12.0 x ϕ 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 | μ H | % | Ω | A | | |
| Symbol | L | K, M, N | DCR | Isat | I _{DC} | |
| 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_{DC}: The DC current at which the temperature rise is 40°C max

Mini Drum Core Inductor

AIUR-02H Series



RoHS/RoHS II compliant



12.0 x ϕ 8.5 mm

➤ OPTIONS & PART IDENTIFICATION:

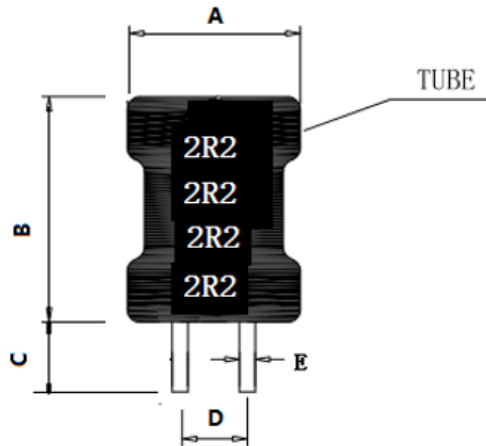
AIUR-02H -

| 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

Mini Drum Core Inductor

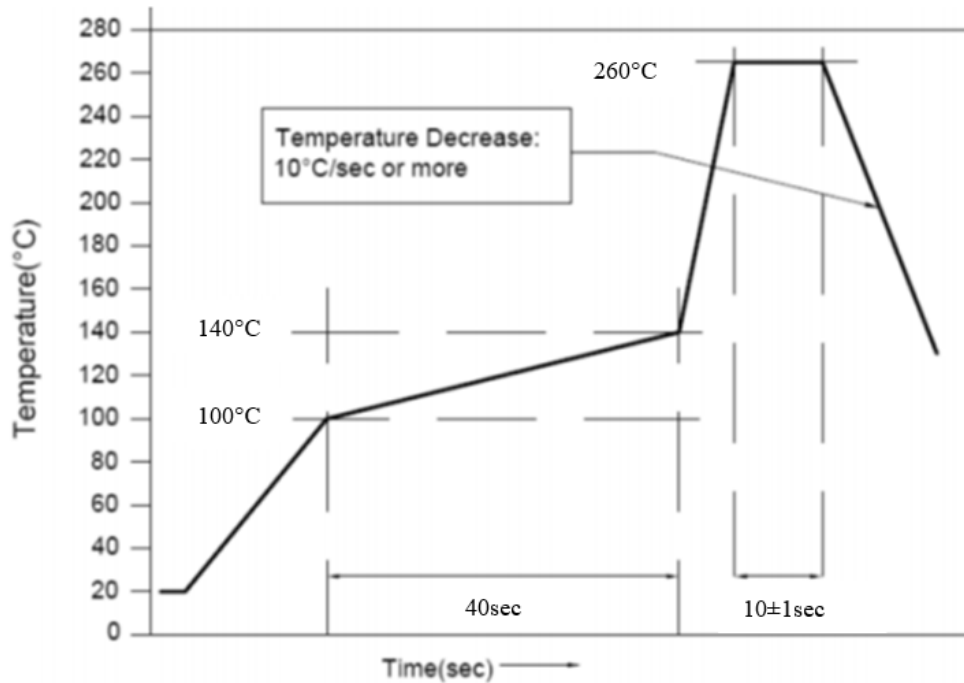
AIUR-02H Series



RoHS/RoHS II compliant

12.0 x ϕ 8.5 mm

➤ WAVE SOLDERING PROFILE:



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