

# Mini Drum Core Inductor

AIUR-02H Series



RoHS  
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:	-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)	Inductance Code
Units	$\mu$ H	%		MHz	$\Omega$	A		
Symbol	L	J, K, M			DCR	Isat	Idc	
AIUR-02H-1R0	1.0	M	15	7.96	0.021	8.60	3.5	1R0M
AIUR-02H-2R2	2.2	M	15	7.96	0.026	6.30	3.2	2R2M
AIUR-02H-3R3	3.3	M	15	7.96	0.030	5.40	2.7	3R3M
AIUR-02H-4R7	4.7	M	15	7.96	0.034	4.60	2.5	4R7M
AIUR-02H-6R8	6.8	M	15	7.96	0.037	4.10	2.3	6R8M
AIUR-02H-100	10	J, K	20	2.52	0.044	3.40	2.0	100J/100K
AIUR-02H-120	12	J, K	20	2.52	0.049	3.10	1.9	120J/120K
AIUR-02H-150	15	J, K	20	2.52	0.054	2.90	1.8	150J/150K
AIUR-02H-180	18	J, K	20	2.52	0.058	2.66	1.6	180J/180K
AIUR-02H-220	22	J, K	20	2.52	0.065	2.40	1.4	220J/220K
AIUR-02H-270	27	J, K	20	2.52	0.072	2.20	1.3	270J/270K
AIUR-02H-330	33	J, K	20	2.52	0.080	2.05	1.1	330J/330K
AIUR-02H-390	39	J, K	20	2.52	0.101	1.85	1.1	390J/390K
AIUR-02H-470	47	J, K	20	2.52	0.121	1.77	0.99	470J/470K
AIUR-02H-560	56	J, K	20	2.52	0.145	1.48	0.90	560J/560K
AIUR-02H-680	68	J, K	20	2.52	0.161	1.36	0.81	680J/680K
AIUR-02H-820	82	J, K	20	2.52	0.174	1.30	0.76	820J/820K
AIUR-02H-101	100	J, K	20	0.79	0.21	1.40	0.72	101J/101K
AIUR-02H-121	120	J, K	20	0.79	0.24	1.25	0.67	121J/121K
AIUR-02H-151	150	J, K	20	0.79	0.27	1.15	0.61	151J/151K
AIUR-02H-181	180	J, K	20	0.79	0.30	1.08	0.54	181J/181K
AIUR-02H-221	220	J, K	20	0.79	0.34	1.00	0.50	221J/221K
AIUR-02H-271	270	J, K	20	0.79	0.39	0.90	0.41	271J/271K
AIUR-02H-331	330	J, K	20	0.79	0.62	0.78	0.39	331J/331K
AIUR-02H-391	390	J, K	20	0.79	0.69	0.74	0.37	391J/391K
AIUR-02H-471	470	J, K	20	0.79	0.77	0.68	0.32	471J/471K
AIUR-02H-561	560	J, K	20	0.79	0.83	0.64	0.30	561J/561K
AIUR-02H-681	680	J, K	15	0.79	0.94	0.59	0.27	681J/681K
AIUR-02H-821	820	J, K	15	0.79	1.03	0.56	0.24	821J/821K
AIUR-02H-102	1000	J, K	15	0.25	1.18	0.51	0.22	102J/102K

## 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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12.0 x  $\phi$ 8.5 mm

## ➤ OPTIONS & PART IDENTIFICATION:

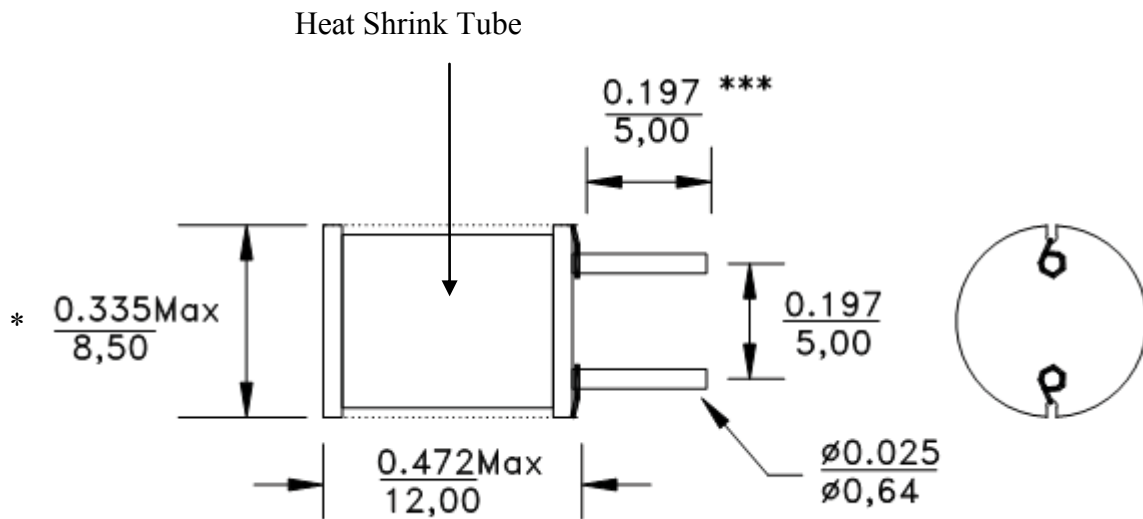
AIUR-02H  -

Lead Length
Blank: 5mm (0.197in)
L: 17mm (0.67in)
P: 10mm (0.39in)

Inductance Code
Please refer to the Electrical Spec Table

Tolerance
J: $\pm$ 5%
K: $\pm$ 10%
M: $\pm$ 20%

## ➤ OUTLINE DRAWING:



\*For 220 $\mu$ H and up, diameter = 0.354/9.0 Max  
 \*\*\* Optional lead length: L: 0.67/17, P: 0.39/10

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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