



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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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# 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:	-25°C to + 85°C
Storage temperature:	-25°C to + 85°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	I <sub>DC</sub>	
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	1.30	0.51	0.22	102J/102K
AIUR-02H-222	2200	J, K	15	0.25	3.00	0.20	0.10	222J/222K

## Test Conditions and equipments

DCR: QuadTech Milliohmmeter

Isat: 10% inductance drops from initial value

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

ABRACON IS  
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AIUR-02H Series



RoHS/RoHS II compliant



12.0 x  $\phi$ 8.5 mm

## OPTIONS & PART IDENTIFICATION:

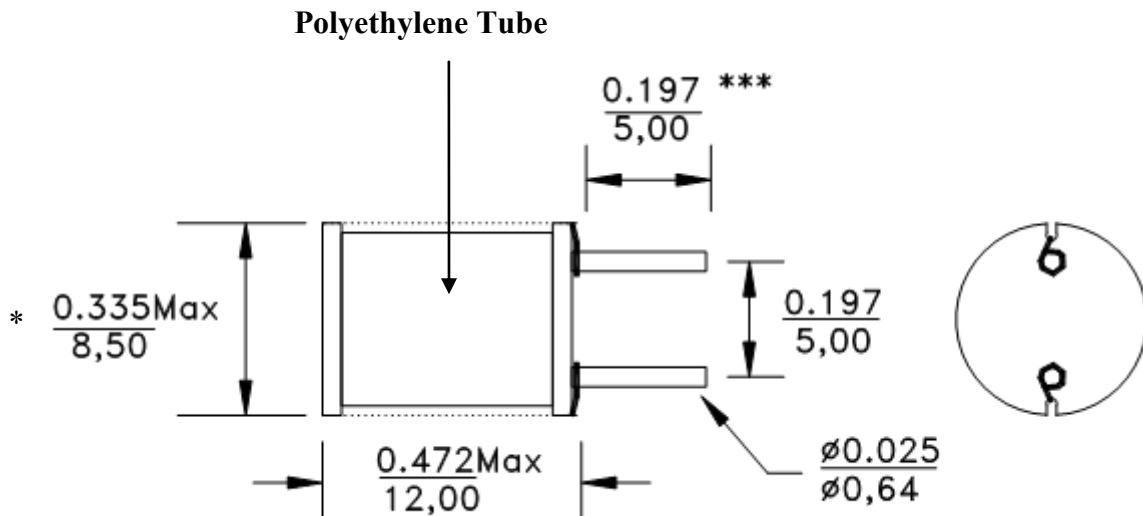
AIUR-02H    -      

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

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

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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