

# Unshielded Radial Power Inductor

AIUR-03 Series



**RoHS**  
Compliant



12.0 x  $\Phi$ 9.0 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-03 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)	SRF (Min)
Units	$\mu$ H	%		MHz	$\Omega$	A	MHz
Symbol	L	J, K			DCR	Isat*	
AIUR-03-1R0	1.0	M	20	7.96	0.013	10.0	150
AIUR-03-1R5	1.5	M	20	7.96	0.016	8.5	130
AIUR-03-2R2	2.2	M	20	7.96	0.021	6.5	100
AIUR-03-3R3	3.3	M	20	7.96	0.025	5.5	79
AIUR-03-4R7	4.7	M	20	7.96	0.030	4.3	51
AIUR-03-6R8	6.8	M	20	7.96	0.035	3.7	29
AIUR-03-100	10	J, K	50	2.52	0.045	3.0	14
AIUR-03-120	12	J, K	50	2.52	0.050	2.7	13
AIUR-03-150	15	J, K	50	2.52	0.056	2.3	12
AIUR-03-180	18	J, K	40	2.52	0.061	2.2	11
AIUR-03-220	22	J, K	40	2.52	0.070	2.0	9.2
AIUR-03-270	27	J, K	40	2.52	0.080	1.7	8.5
AIUR-03-330	33	J, K	30	2.52	0.090	1.6	7.8
AIUR-03-390	39	J, K	30	2.52	0.10	1.5	6.9
AIUR-03-470	47	J, K	30	2.52	0.16	1.4	6.5
AIUR-03-560	56	J, K	30	2.52	0.18	1.3	5.4
AIUR-03-680	68	J, K	30	2.52	0.21	1.2	4.9
AIUR-03-820	82	J, K	30	2.52	0.23	1.1	4.1
AIUR-03-101	100	J, K	20	0.796	0.28	0.91	3.7
AIUR-03-121	120	J, K	20	0.796	0.32	0.84	3.4
AIUR-03-151	150	J, K	20	0.796	0.37	0.75	3.2
AIUR-03-181	180	J, K	20	0.796	0.58	0.69	2.8
AIUR-03-221	220	J, K	20	0.796	0.65	0.64	2.7
AIUR-03-331	330	J, K	20	0.796	0.85	0.54	2.3
AIUR-03-391	390	J, K	20	0.796	1.00	0.48	2.1
AIUR-03-471	470	J, K	20	0.796	1.10	0.46	1.9
AIUR-03-561	560	J, K	20	0.796	1.40	0.41	1.8
AIUR-03-681	680	J, K	20	0.796	1.60	0.38	1.6
AIUR-03-821	820	J, K	20	0.796	1.80	0.35	1.5
AIUR-03-102	1000	J, K	50	0.252	2.90	0.29	1.3

### Test Conditions and equipments

DCR: QuadTech Milliohmmeter

Isat: 10% inductance drops from initial value

ABRACON IS  
ISO 9001:2008  
CERTIFIED



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Revised: 07.24.12

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Compliant



12.0 x  $\Phi$ 9.0 mm

## OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

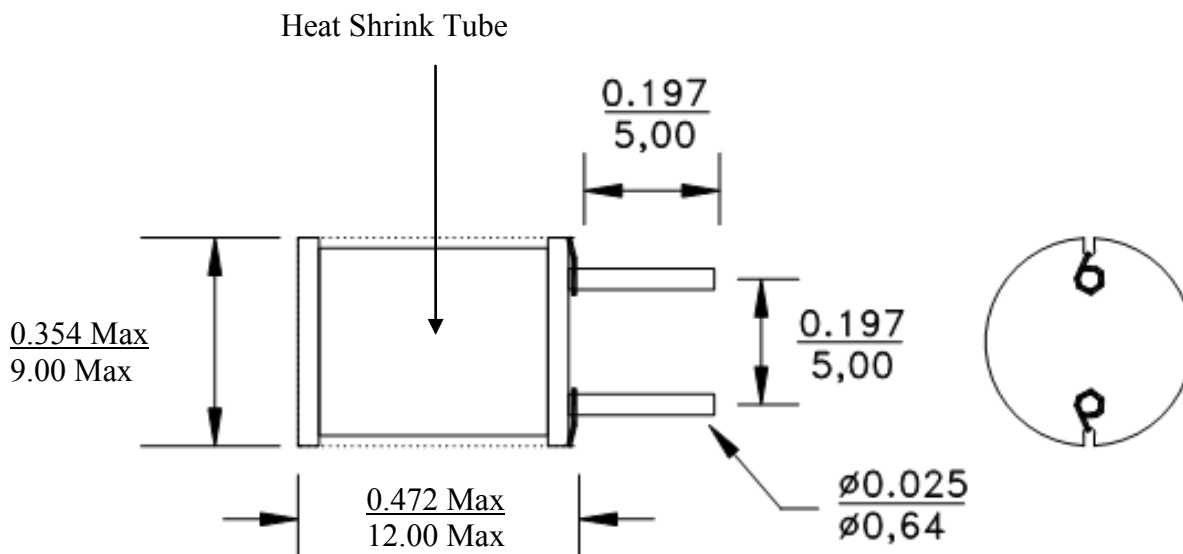
Packing (200pcs / box)

AIUR-03-

**Inductance Code**  
Please refer to the  
Electrical Spec Table

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

## 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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