



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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# Unshielded Radial Power Inductor

AIUR-06 Series

 RoHS/RoHS II Compliant



## 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-06 Series
Operating temperature:	-25°C ~ +85°C
Storage temperature:	-25°C ~ +85°C

Part Number	Inductance	Tolerance	DCR (Max)	Saturation Current (Max)	Temperature Rise Current (Max)	Inductance Code
Units	$\mu$ H	%	$\Omega$	A	A	
Symbol	L	K	DCR	Isat	Idc	
AIUR-06-3R9	3.9	K	0.016	14.2	6.5	3R9K
AIUR-06-4R7	4.7	K	0.018	13.0	6.2	4R7K
AIUR-06-5R6	5.6	K	0.021	11.0	5.9	5R6K
AIUR-06-6R8	6.8	K	0.023	10.0	5.6	6R8K
AIUR-06-8R2	8.2	K	0.026	9.5	5.3	8R2K
AIUR-06-100	10	K	0.031	8.8	5.0	100K
AIUR-06-120	12	K	0.036	7.9	4.6	120K
AIUR-06-150	15	K	0.040	7.1	4.4	150K
AIUR-06-180	18	K	0.041	7.4	4.2	180K
AIUR-06-220	22	K	0.043	6.1	4.0	220K
AIUR-06-270	27	K	0.046	5.5	3.8	270K
AIUR-06-330	33	K	0.051	5.2	3.6	330K
AIUR-06-390	39	K	0.054	4.5	3.3	390K
AIUR-06-470	47	K	0.063	4.1	3.2	470K
AIUR-06-560	56	K	0.075	3.8	2.7	560K
AIUR-06-680	68	K	0.078	3.5	2.4	680K
AIUR-06-820	82	K	0.088	3.1	2.2	820K
AIUR-06-101	100	K	0.108	2.8	2.1	101K
AIUR-06-121	120	K	0.127	2.6	2.0	121K
AIUR-06-151	150	K	0.162	2.4	1.9	151K
AIUR-06-181	180	K	0.228	2.1	1.6	181K
AIUR-06-221	220	K	0.252	1.9	1.5	221K
AIUR-06-271	270	K	0.270	1.75	1.4	271K
AIUR-06-331	330	K	0.394	1.62	1.3	331K
AIUR-06-391	390	K	0.416	1.40	1.1	391K
AIUR-06-471	470	K	0.568	1.30	1.0	471K
AIUR-06-561	560	K	0.650	1.20	0.95	561K
AIUR-06-681	680	K	0.740	1.10	0.82	681K
AIUR-06-821	820	K	1.0	0.96	0.75	821K
AIUR-06-102	1000	K	1.2	0.88	0.65	102K
AIUR-06-122	1200	K	1.5	0.80	0.61	122K
AIUR-06-152	1500	K	1.7	0.72	0.54	152K
AIUR-06-182	1800	K	1.8	0.66	0.46	182K
AIUR-06-222	2200	K	2.4	0.60	0.41	222K
AIUR-06-272	2700	K	2.8	0.54	0.39	272K
AIUR-06-332	3300	K	3.7	0.48	0.35	332K
AIUR-06-392	3900	K	5.0	0.42	0.31	392K
AIUR-06-472	4700	K	5.6	0.40	0.28	472K
AIUR-06-562	5600	K	6.3	0.37	0.25	562K
AIUR-06-682	6800	K	8.4	0.34	0.22	682K
AIUR-06-822	8200	K	9.6	0.31	0.20	822K
AIUR-06-103	10000	K	10.5	0.29	0.16	103K
AIUR-06-123	12000	K	14.5	0.25	0.13	123K
AIUR-06-153	15000	K	20.5	0.23	0.10	153K

## Test Conditions and equipments

Test frequency: 1kHz, 0.1Vrms

Isat: max. 10% inductance drop from initial value

IDC: The DC current at which the temperature rise is 40°C max

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# Unshielded Radial Power Inductor

AIUR-06 Series

 RoHS/RoHS II Compliant



18.03 x  $\phi$ 13.0mm

## PART IDENTIFICATIONS:

AIUR-06-

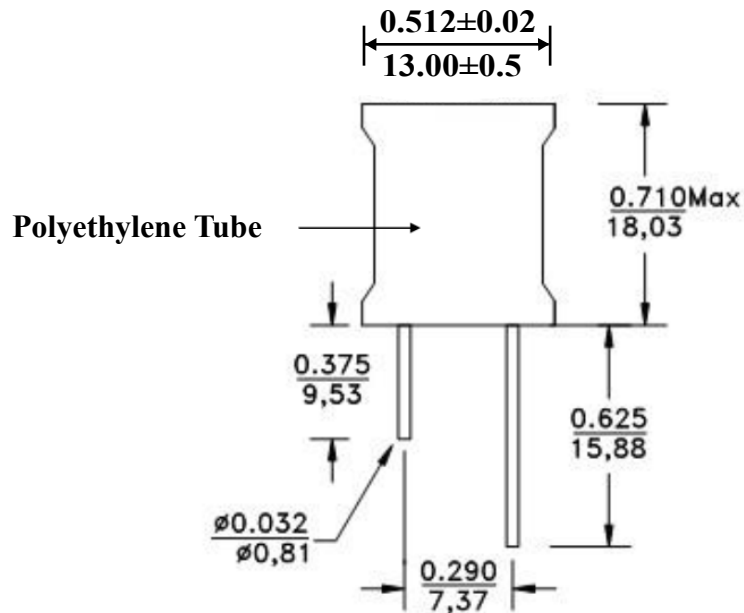
### Inductance Code

Please refer to the  
Electrical Spec Table

### Tolerance

K:  $\pm 10\%$

## OUTLINE DRAWING:



Dimension: mm

Packing (250pcs / Box)

**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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