

# Unshielded Radial Power Inductor



## AIUR-06 Series

Request Samples



Check Inventory



18.0 x  $\phi$ 13.0mm

RoHS/RoHS II Compliant

MSL Level = 1

### 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

### Electrical Specifications

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	I <sub>sat</sub>	I <sub>DC</sub>	
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	J, K	0.416	1.40	1.1	391K
AIUR-06-471	470	J, K	0.568	1.30	1.0	471K
AIUR-06-561	560	J, K	0.650	1.20	0.95	561K
AIUR-06-681	680	J, K	0.740	1.10	0.82	681K
AIUR-06-821	820	J, K	1.0	0.96	0.75	821K

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Units	$\mu$ H	%	$\Omega$	A	A	
Symbol	L	J, K	DCR	Isat	IDC	
AIUR-06-152	1500	J, K	1.7	0.72	0.54	152K
AIUR-06-182	1800	J, K	1.8	0.66	0.46	182K
AIUR-06-222	2200	J, K	2.4	0.60	0.41	222K
AIUR-06-272	2700	J, K	2.8	0.54	0.39	272K
AIUR-06-332	3300	J, K	3.7	0.48	0.35	332K
AIUR-06-392	3900	J, K	5.0	0.42	0.31	392K
AIUR-06-472	4700	J, K	5.6	0.40	0.28	472K
AIUR-06-562	5600	J, K	6.3	0.37	0.25	562K
AIUR-06-682	6800	J, K	8.4	0.34	0.22	682K
AIUR-06-822	8200	J, K	9.6	0.31	0.20	822K
AIUR-06-103	10000	J, K	10.5	0.29	0.16	103K
AIUR-06-123	12000	J, K	14.5	0.25	0.13	123K
AIUR-06-153	15000	J, K	20.5	0.23	0.10	153K

### Test Conditions and equipment

Test frequency: 1kHz, 0.25Vrms

Isat: max. 10% inductance drop from initial value

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

**Operating Temperature:** -40°C ~ +125°C (Including Self-heating)

**Storage Temperature:** -40°C ~ +125°C

**Operating Voltage (COILS-CORE): 500V MAX**

**AIUR-06 Series is RoHS/RoHS II Compliant and Pb free**

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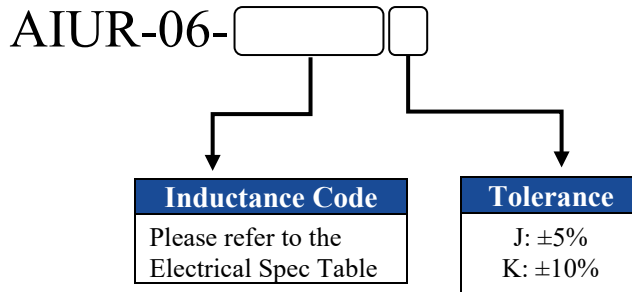


Check Inventory

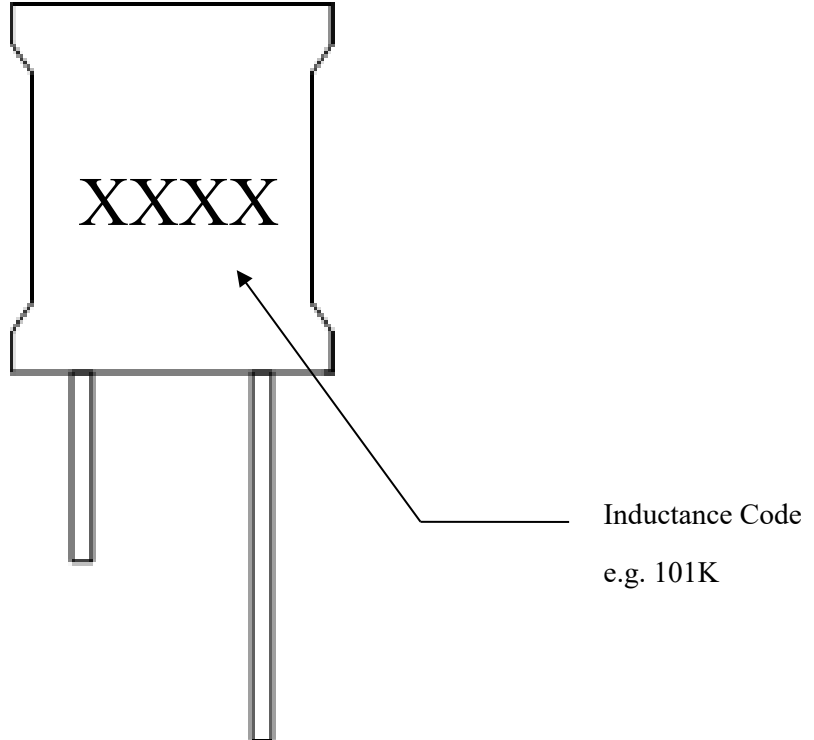


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## Part Identification



## Marking



Marking Method = Ink Marking

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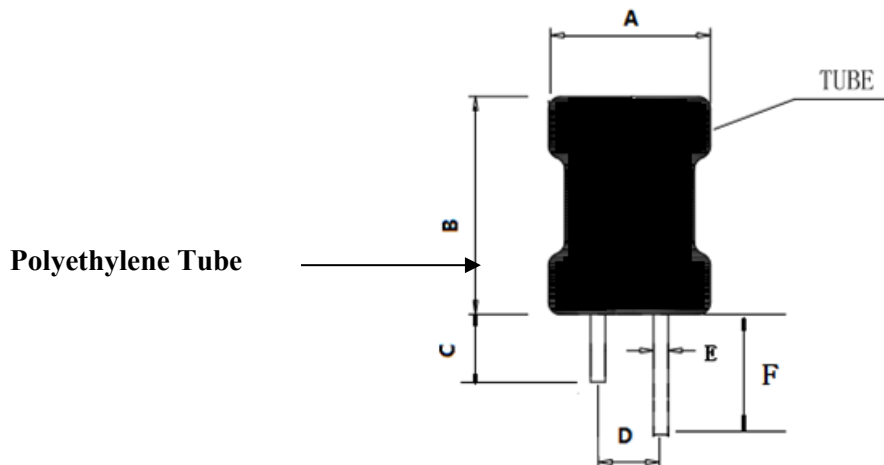


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## Mechanical Specifications



A	B	C	D	E	F
13.5 MAX	18.0 MAX	9.5 $\pm$ 1	7.5 REF	0.8	15.8 $\pm$ 1

Dimension: mm

## Packaging

Packaging: (100pcs / tray)



AIUR-06: 100pcs/Tray

**ATTENTION:** Abracon LLC'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-dependent 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 LLC is required. Please contact Abracon LLC for more information.



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