

AIUR-06-681K Datasheet



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DiGi Electronics Part Number	AIUR-06-681K-DG
Manufacturer	Abracon LLC
Manufacturer Product Number	AIUR-06-681K
Description	FIXED IND 680UH 820MA 740MOHM TH
Detailed Description	680 μ H Unshielded Drum Core, Wirewound Inductor 820 mA 740mOhm Max Radial, Vertical Cylinder



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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

AIUR-06-681K

Series:

AIUR-06

Type:

Drum Core, Wirewound

Inductance:

680 μ H

Current Rating (Amps):

820 mA

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

1 kHz

Package / Case:

Radial, Vertical Cylinder

Size / Dimension:

0.500" Dia (12.70mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 10%

Current - Saturation (Isat):

1.1A

DC Resistance (DCR):

740mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-25°C ~ 85°C

Mounting Type:

Through Hole

Supplier Device Package:

-

Height - Seated (Max):

0.710" (18.03mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

Unshielded Radial Power Inductor



AIUR-06 Series

Request Samples



Check Inventory

18.0 x ϕ 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	μ H	%	Ω	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	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
AIUR-06-102	1000	J, K	1.2	0.88	0.65	102K

Unshielded Radial Power Inductor



AIUR-06 Series

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18.0 x ϕ 13.0mm

RoHS/RoHS II Compliant

MSL Level = 1

Part Number	Inductance	Tolerance	DCR (Max)	Saturation Current (Max)	Temperature Rise Current (Max)	Inductance Code
Units	μ H	%	Ω	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

Unshielded Radial Power Inductor



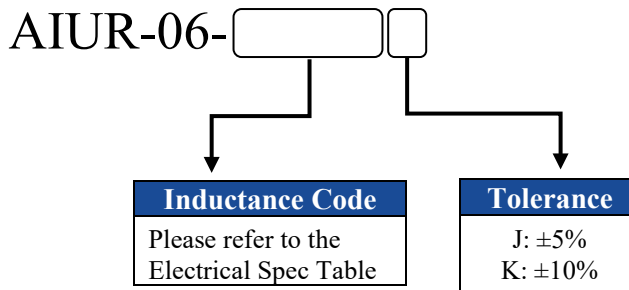
AIUR-06 Series

Request Samples

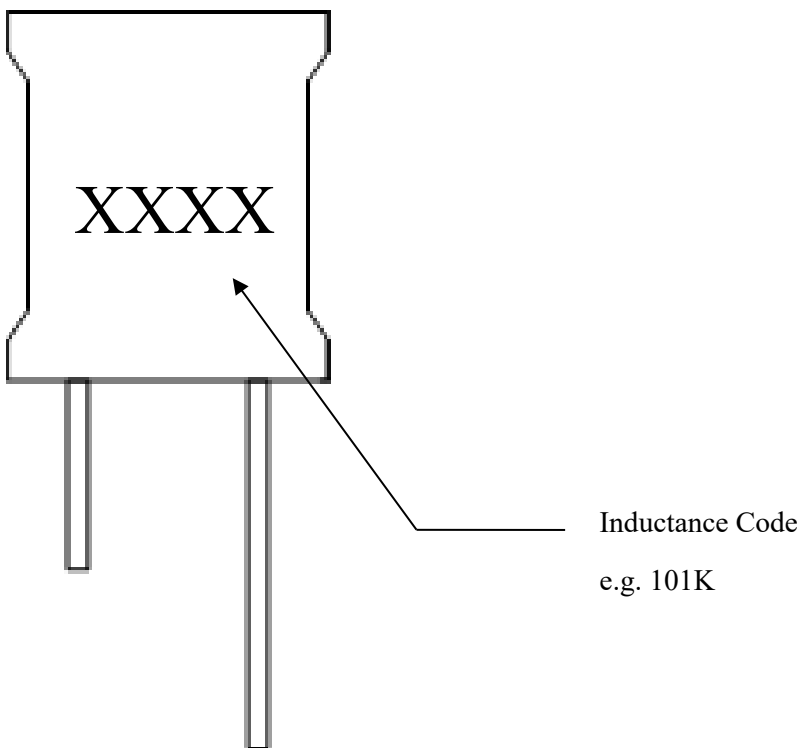
Check Inventory

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Part Identification



Marking



Marking Method = Ink Marking

Unshielded Radial Power Inductor



AIUR-06 Series

Request Samples

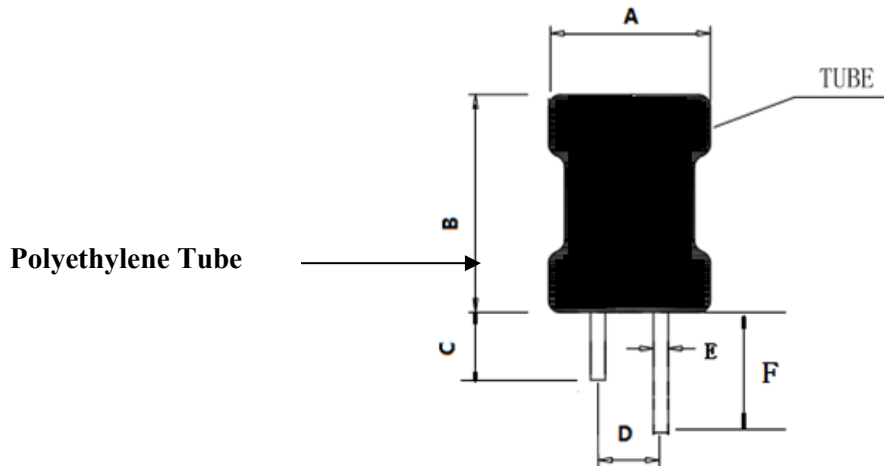


Check Inventory



18.0 x ϕ 13.0mm
RoHS/RoHS II Compliant
 MSL Level = 1

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 Commercial-Off-The-Shelf (COTS, which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.



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