

AIUR-08-820K Datasheet



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DiGi Electronics Part Number	AIUR-08-820K-DG
Manufacturer	Abracon LLC
Manufacturer Product Number	AIUR-08-820K
Description	FIXED IND 82UH 1.9A 140 MOHM TH
Detailed Description	82 μ H Unshielded Drum Core, Wirewound Inductor 1.9 A 140mOhm Max Radial, Vertical Cylinder

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Purchase and inquiry

Manufacturer Product Number:

AIUR-08-820K

Series:

AIUR-08

Type:

Drum Core, Wirewound

Inductance:

82 μ H

Current Rating (Amps):

1.9 A

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

2.52 MHz

Package / Case:

Radial, Vertical Cylinder

Size / Dimension:

0.433" Dia (11.00mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

$\pm$ 10%

Current - Saturation (Isat):

-

DC Resistance (DCR):

140mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-25°C ~ 85°C

Mounting Type:

Through Hole

Supplier Device Package:

-

Height - Seated (Max):

0.433" (11.00mm)

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-08 Series



11.0 x φ11.0 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-08 Series
Operating temperature:	-25°C ~ +85°C
Storage temperature:	-25°C ~ +85°C

Part Number	Inductance	Tolerance	DCR (Max)	Rated Current (Max)	Inductance Code
Units	μH	%	Ω	A	
Symbol	L	K	DCR	IDC	
AIUR-08-100	10	K	0.030	5.30	100K
AIUR-08-120	12	K	0.023	4.90	120K
AIUR-08-150	15	K	0.026	4.40	150K
AIUR-08-180	18	K	0.033	4.00	180K
AIUR-08-220	22	K	0.037	3.60	220K
AIUR-08-270	27	K	0.048	3.30	270K
AIUR-08-330	33	K	0.055	2.90	330K
AIUR-08-390	39	K	0.073	2.70	390K
AIUR-08-470	47	K	0.083	2.50	470K
AIUR-08-560	56	K	0.092	2.30	560K
AIUR-08-680	68	K	0.120	2.10	680K
AIUR-08-820	82	K	0.140	1.90	820K
AIUR-08-101	100	K	0.160	1.70	101K
AIUR-08-121	120	K	0.200	1.50	121K
AIUR-08-151	150	K	0.230	1.40	151K
AIUR-08-181	180	K	0.310	1.30	181K
AIUR-08-221	220	K	0.340	1.10	221K
AIUR-08-271	270	K	0.400	1.00	271K
AIUR-08-331	330	K	0.520	0.93	331K
AIUR-08-391	390	K	0.650	0.86	391K
AIUR-08-471	470	K	0.710	0.78	471K
AIUR-08-561	560	K	1.000	0.71	561K
AIUR-08-681	680	K	1.100	0.65	681K
AIUR-08-821	820	K	1.300	0.59	821K
AIUR-08-102	1000	K	1.700	0.53	102K

Test Conditions and equipments

Test frequency: 1KHz for 100μH~1000μH; 2.52MHz for 10μH~82μH

Rated Current: The DC current at which the inductance drops to 90% of its initial value or when ΔT=40°C, whichever is lower (Ta=20°C)



Unshielded Radial Power Inductor

AIUR-08 Series

11.0 x ϕ 11.0 mm

PART IDENTIFICATIONS:

AIUR-08-

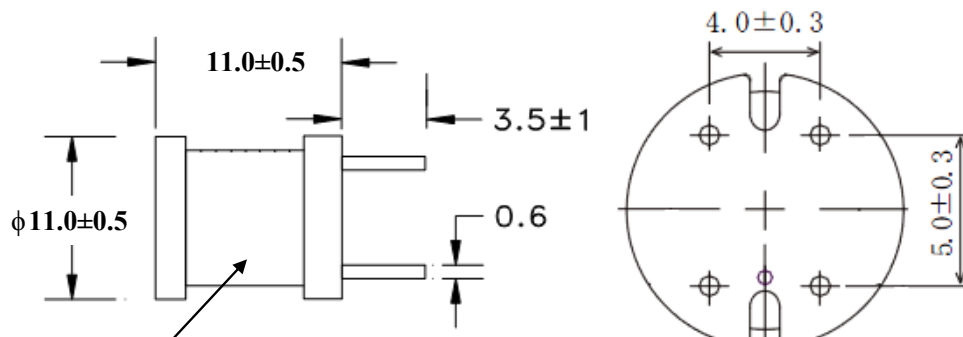
Inductance Code

Please refer to the
Electrical Spec Table

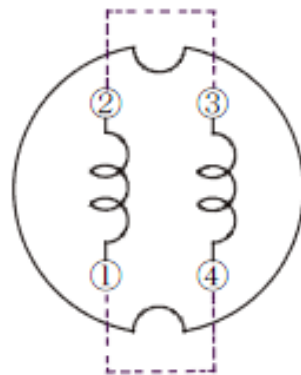
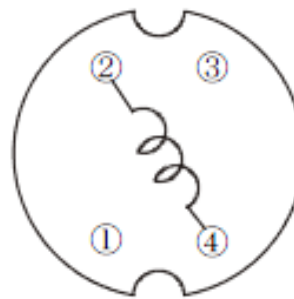
Tolerance

K: $\pm 10\%$

OUTLINE DRAWING:



Polyethylene Tube

 $(10 \mu\text{H} \sim 33 \mu\text{H})$  $(39 \mu\text{H} \sim 1\text{mH})$

Dimension: mm

Packing (405pcs / Box)

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