

# AIUR-16-102K Datasheet

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DiGi Electronics Part Number	AIUR-16-102K-DG
Manufacturer	<a href="#">Abracon LLC</a>
Manufacturer Product Number	AIUR-16-102K
Description	FIXED IND 1MH 150MA 3 OHM TH
Detailed Description	1 mH Unshielded Drum Core, Wirewound Inductor 150 mA 30hm Max Radial, Vertical Cylinder



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## Purchase and inquiry

Manufacturer Product Number:

AIUR-16-102K

Series:

AIUR-16

Type:

Drum Core, Wirewound

Inductance:

1 mH

Current Rating (Amps):

150 mA

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

10 kHz

Package / Case:

Radial, Vertical Cylinder

Size / Dimension:

0.276" Dia (7.00mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

±10%

Current - Saturation (Isat):

165mA

DC Resistance (DCR):

30hm Max

Frequency - Self Resonant:

-

Operating Temperature:

-25°C ~ 85°C

Mounting Type:

Through Hole

Supplier Device Package:

-

Height - Seated (Max):

0.374" (9.50mm)

## 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-16 Series



RoHS/RoHS II compliant

9.50 x  $\phi$ 7.00mm

## 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-16 Series
Operating temperature:	-25°C to + 85°C
Storage temperature:	-25°C to + 85°C

Part Number AIUR-16- Inductance Code	Inductance	Tolerance	DCR (Max)	Saturation Current (Max)	Temperature Rise Current (Max)	Marking
Units	$\mu$ H	%	$\Omega$	A	A	
Symbol	L		DCR	Isat	Irms	
AIUR-16-3R9	3.9	K	0.020	2.700	1.300	3R9K
AIUR-16-4R7	4.7	K	0.022	2.500	1.300	4R7K
AIUR-16-5R6	5.6	K	0.027	2.300	1.300	5R6K
AIUR-16-6R8	6.8	K	0.029	2.100	1.300	6R8K
AIUR-16-8R2	8.2	K	0.036	1.900	1.300	8R2K
AIUR-16-100	10	K	0.041	1.700	1.300	100K
AIUR-16-120	12	K	0.046	1.550	1.300	120K
AIUR-16-150	15	K	0.050	1.400	1.300	150K
AIUR-16-180	18	K	0.062	1.300	1.000	180K
AIUR-16-220	22	K	0.071	1.200	1.000	220K
AIUR-16-270	27	K	0.073	1.100	1.000	270K
AIUR-16-330	33	K	0.090	0.920	0.800	330K
AIUR-16-390	39	K	0.102	0.840	0.800	390K
AIUR-16-470	47	K	0.120	0.760	0.800	470K
AIUR-16-560	56	K	0.162	0.700	0.620	560K
AIUR-16-680	68	K	0.186	0.660	0.620	680K
AIUR-16-820	82	K	0.240	0.580	0.490	820K
AIUR-16-101	100	K	0.270	0.530	0.490	101K
AIUR-16-121	120	K	0.310	0.460	0.490	121K
AIUR-16-151	150	K	0.372	0.440	0.490	151K
AIUR-16-181	180	K	0.456	0.390	0.385	181K
AIUR-16-221	220	K	0.535	0.350	0.385	221K
AIUR-16-271	270	K	0.625	0.320	0.385	271K
AIUR-16-331	330	K	0.816	0.300	0.300	331K
AIUR-16-391	390	K	1.000	0.280	0.250	391K
AIUR-16-471	470	K	1.200	0.240	0.250	471K
AIUR-16-561	560	K	1.300	0.225	0.250	561K
AIUR-16-681	680	K	1.800	0.210	0.190	681K
AIUR-16-821	820	K	2.100	0.190	0.190	821K
AIUR-16-102	1000	K	3.000	0.165	0.150	102K
AIUR-16-122	1200	K	3.300	0.155	0.150	122K
AIUR-16-152	1500	K	3.500	0.135	0.150	152K
AIUR-16-182	1800	K	5.700	0.125	0.120	182K
AIUR-16-222	2200	K	6.200	0.115	0.095	222K
AIUR-16-272	2700	K	7.600	0.105	0.095	272K
AIUR-16-332	3300	K	8.500	0.096	0.095	332K
AIUR-16-392	3900	K	10.30	0.084	0.076	392K
AIUR-16-472	4700	K	11.30	0.076	0.076	472K
AIUR-16-562	5600	K	13.00	0.070	0.076	562K
AIUR-16-682	6800	K	17.00	0.064	0.060	682K

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Revised: 07.26.12

# Unshielded Radial Power Inductor

AIUR-16 Series



RoHS/RoHS II compliant

9.50 x  $\phi$ 7.00mm

Part Number AIUR-16- Inductance Code	Inductance	Tolerance	DCR (Max)	Saturation Current (Max)	Temperature Rise Current (Max)	Marking
Units	$\mu$ H	%	$\Omega$	A	A	
Symbol	L		DCR	Isat	Irms	
AIUR-16-822	8200	K	20.00	0.057	0.060	822K
AIUR-16-103	10000	K	27.00	0.053	0.046	103K
AIUR-16-123	12000	K	31.00	0.047	0.046	123K
AIUR-16-153	15000	K	45.00	0.043	0.036	153K
AIUR-16-183	18000	K	51.00	0.038	0.036	183K
AIUR-16-223	22000	K	60.00	0.035	0.030	223K
AIUR-16-273	27000	K	66.00	0.033	0.030	273K
AIUR-16-333	33000	K	100.0	0.029	0.030	333K

## Test Conditions and equipments

Test frequency: 10kHz, 0.1Vrms

DCR: QuadTech Milliohmmeter

Isat: 5% typical inductance drops from initial value

Irms:  $\Delta$ T of 30°C max.

## PART NUMBER IDENTIFICATION

AIUR-16- 

Packaging 200pcs/box

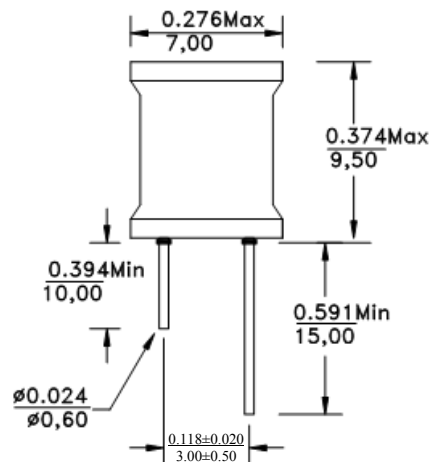
### Inductance Code

Please refer to the  
Electrical Spec Table

### Tolerance

K:  $\pm$ 10%

## PART NUMBER IDENTIFICATION



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