

AIUR-11-183K Datasheet



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DiGi Electronics Part Number	AIUR-11-183K-DG
Manufacturer	Abracon LLC
Manufacturer Product Number	AIUR-11-183K
Description	FIXED IND 18MH 60MA 37.2 OHM TH
Detailed Description	18 mH Unshielded Drum Core, Wirewound Inductor 60 mA 37.2Ohm Max Radial, Vertical Cylinder



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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

AIUR-11-183K

Series:

AIUR-11

Type:

Drum Core, Wirewound

Inductance:

18 mH

Current Rating (Amps):

60 mA

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

1 kHz

Package / Case:

Radial, Vertical Cylinder

Size / Dimension:

0.375" Dia (9.53mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

±10%

Current - Saturation (Isat):

96mA

DC Resistance (DCR):

37.20hm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 85°C

Mounting Type:

Through Hole

Supplier Device Package:

-

Height - Seated (Max):

0.450" (11.43mm)

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-11 Series

11.43 x ϕ 9.53mm

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-11 Series
Operating temperature:	-40°C to + 85°C
Storage temperature:	-40°C to + 125°C

Part Number AIUR-11- Inductance Code	Inductance	Tolerance	DCR (Max)	I _{DC} (Max)	I _{RMS} (Max)	Marking
Units	μ H	%	Ω	A	A	
Symbol	L	M, K	DCR	I _{DC}	I _{RMS}	
AIUR-11-3R9	3.9	M	0.022	6.80	1.60	3R9M
AIUR-11-4R7	4.7	M	0.024	6.20	1.60	4R7M
AIUR-11-5R6	5.6	M	0.025	5.60	1.60	5R6M
AIUR-11-6R8	6.8	M	0.028	5.10	1.60	6R8M
AIUR-11-8R2	8.2	M	0.030	4.60	1.60	8R2M
AIUR-11-100	10	K	0.034	4.20	1.60	100K
AIUR-11-120	12	K	0.038	3.80	1.60	120K
AIUR-11-150	15	K	0.043	3.30	1.60	150K
AIUR-11-180	18	K	0.049	3.10	1.60	180K
AIUR-11-120	22	K	0.054	2.70	1.60	120K
AIUR-11-270	27	K	0.059	2.50	1.60	270K
AIUR-11-330	33	K	0.066	2.30	1.60	330K
AIUR-11-390	39	K	0.078	2.20	1.60	390K
AIUR-11-470	47	K	0.102	1.90	1.30	470K
AIUR-11-560	56	K	0.138	1.60	1.00	560K
AIUR-11-680	68	K	0.168	1.45	1.00	680K
AIUR-11-820	82	K	0.174	1.30	1.00	820K
AIUR-11-101	100	K	0.180	1.20	1.00	101K
AIUR-11-121	120	K	0.234	1.10	0.80	121K
AIUR-11-151	150	K	0.276	1.00	0.80	151K
AIUR-11-181	180	K	0.300	0.92	0.80	181K
AIUR-11-221	220	K	0.353	0.86	0.80	221K
AIUR-11-271	270	K	0.500	0.76	0.62	271K
AIUR-11-331	330	K	0.635	0.700	0.490	331K
AIUR-11-391	390	K	0.720	0.620	0.490	391K
AIUR-11-471	470	K	0.816	0.600	0.490	471K
AIUR-11-561	560	K	1.030	0.540	0.385	561K
AIUR-11-681	680	K	1.200	0.510	0.385	681K
AIUR-11-821	820	K	1.54	0.450	0.300	821K
AIUR-11-102	1000	K	2.16	0.390	0.246	102K
AIUR-11-122	1200	K	2.40	0.360	0.246	122K
AIUR-11-152	1500	K	2.76	0.340	0.246	152K
AIUR-11-182	1800	K	3.60	0.300	0.190	182K
AIUR-11-222	2200	K	4.00	0.245	0.190	222K
AIUR-11-272	2700	K	6.00	0.238	0.150	272K
AIUR-11-332	3300	K	6.72	0.225	0.150	332K
AIUR-11-392	3900	K	8.80	0.200	0.120	392K
AIUR-11-472	4700	K	11.00	0.185	0.095	472K
AIUR-11-562	5600	K	13.20	0.170	0.095	562K
AIUR-11-682	6800	K	14.50	0.150	0.095	682K

Unshielded Radial Power Inductor

AIUR-11 Series


RoHS
Compliant
11.43 x ϕ 9.53mm

Part Number AIUR-11- Inductance Code	Inductance	Tolerance	DCR (Max)	I _{DC} (Max)	I _{RMS} (Max)	Marking
Units	μ H	%	Ω	A	A	
Symbol	L	K	DCR	I _{DC}	I _{RMS}	
AIUR-11-822	8200	K	16.55	0.140	0.095	822K
AIUR-11-103	10000	K	20.40	0.130	0.076	103K
AIUR-11-123	12000	K	24.00	0.120	0.076	123K
AIUR-11-153	15000	K	27.60	0.100	0.076	153K
AIUR-11-183	18000	K	37.20	0.096	0.060	183K
AIUR-11-223	22000	K	42.00	0.088	0.060	223K
AIUR-11-273	27000	K	58.80	0.082	0.046	273K
AIUR-11-333	33000	K	64.80	0.074	0.046	333K
AIUR-11-393	39000	K	72.00	0.064	0.046	393K
AIUR-11-473	47000	K	94.20	0.046	0.036	473K
AIUR-11-563	56000	K	105.00	0.043	0.036	563K
AIUR-11-683	68000	K	115.00	0.040	0.036	683K

Test Conditions

Test frequency: 1KHz, 0.1Vrms

I_{DC}: The DC current at which L drops 5% typical from its initial valueI_{RMS}: $\Delta T < 40^{\circ}\text{C}$ temperature rise

PART IDENTIFICATION:

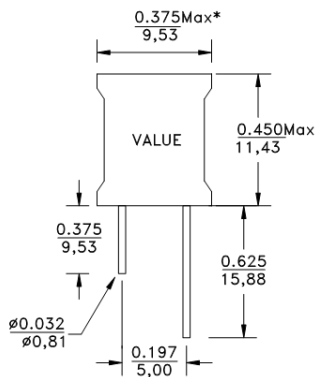
AIUR-11-

Packing (500pcs / Box)

Inductance Code
Please refer to the Electrical Spec Table

Tolerance
M: $\pm 20\%$
K: $\pm 10\%$

OUTLINE DRAWING:



Dimension: inch/mm

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