

AIUR-02H-680K Datasheet



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DiGi Electronics Part Number	AIUR-02H-680K-DG
Manufacturer	Abracon LLC
Manufacturer Product Number	AIUR-02H-680K
Description	FIXED IND 68UH 810MA 161 MOHM TH
Detailed Description	68 μ H Unshielded Drum Core, Wirewound Inductor 810 mA 161mOhm Max Radial, Vertical Cylinder



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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

AIUR-02H-680K

Series:

AIUR-02H

Type:

Drum Core, Wirewound

Inductance:

68 μ H

Current Rating (Amps):

810 mA

Shielding:

Unshielded

Q @ Freq:

20 @ 2.52MHz

Ratings:

-

Inductance Frequency - Test:

1 kHz

Package / Case:

Radial, Vertical Cylinder

Size / Dimension:

0.335" Dia (8.50mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 10%

Current - Saturation (Isat):

1.36A

DC Resistance (DCR):

161mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Mounting Type:

Through Hole

Supplier Device Package:

-

Height - Seated (Max):

0.472" (12.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

Mini Drum Core Inductor

AIUR-02H Series



RoHS/RoHS II compliant

12.0 x ϕ 8.5 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-02H Series
Operating temperature:	-40°C to + 125°C (including self-heating)
Storage temperature:	-40°C to + 125°C

Part Number	Inductance	Tolerance	DCR (Max)	Saturation Current (Max)	Temperature Rise Current (Max)	Inductance Code
Units	μ H	%	Ω	A		
Symbol	L	K, M, N	DCR	Isat	I _{DC}	
AIUR-02H-1R0	1.0	N	0.021	8.60	3.5	1R0N
AIUR-02H-2R2	2.2	M	0.026	6.30	3.2	2R2M
AIUR-02H-3R3	3.3	M	0.030	5.40	2.7	3R3M
AIUR-02H-4R7	4.7	M	0.034	4.60	2.5	4R7M
AIUR-02H-6R8	6.8	M	0.037	4.10	2.3	6R8M
AIUR-02H-100	10	K	0.044	3.40	2.0	100K
AIUR-02H-120	12	K	0.049	3.10	1.9	120K
AIUR-02H-150	15	K	0.054	2.90	1.8	150K
AIUR-02H-180	18	K	0.058	2.66	1.6	180K
AIUR-02H-220	22	K	0.065	2.40	1.4	220K
AIUR-02H-270	27	K	0.072	2.20	1.3	270K
AIUR-02H-330	33	K	0.080	2.05	1.1	330K
AIUR-02H-390	39	K	0.101	1.85	1.1	390K
AIUR-02H-470	47	K	0.121	1.77	0.99	470K
AIUR-02H-560	56	K	0.145	1.48	0.90	560K
AIUR-02H-680	68	K	0.161	1.36	0.81	680K
AIUR-02H-820	82	K	0.174	1.30	0.76	820K
AIUR-02H-101	100	K	0.21	1.40	0.72	101K
AIUR-02H-121	120	K	0.24	1.25	0.67	121K
AIUR-02H-151	150	K	0.27	1.15	0.61	151K
AIUR-02H-181	180	K	0.30	1.08	0.54	181K
AIUR-02H-221	220	K	0.34	1.00	0.50	221K
AIUR-02H-271	270	K	0.39	0.90	0.41	271K
AIUR-02H-331	330	K	0.62	0.78	0.39	331K
AIUR-02H-391	390	K	0.69	0.74	0.37	391K
AIUR-02H-471	470	K	0.77	0.68	0.32	471K
AIUR-02H-561	560	K	0.83	0.64	0.30	561K
AIUR-02H-681	680	K	0.94	0.59	0.27	681K
AIUR-02H-821	820	K	1.03	0.56	0.24	821K
AIUR-02H-102	1000	K	1.30	0.51	0.22	102K
AIUR-02H-222	2200	K	3.00	0.20	0.10	222K

Test Conditions and equipments

Test frequency: 1KHz, 0.25V

Isat: 30% inductance drops from initial value.

I_{DC}: The DC current at which the temperature rise is 40°C max

Mini Drum Core Inductor

AIUR-02H Series



RoHS/RoHS II compliant



12.0 x ϕ 8.5 mm

➤ OPTIONS & PART IDENTIFICATION:

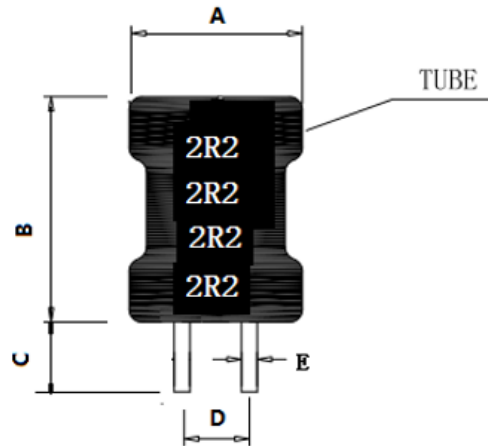
AIUR-02H -

Lead Length
Blank: 5mm

Inductance Code
Please refer to the Electrical Spec Table

Tolerance
K: \pm 10%
M: \pm 20%
N: \pm 30%

➤ MECHANICAL DIMENSIONS:



A	B	C	D	E
9.0 (max)	12.0 (max)	5.0 \pm 1	5Ref	0.6

Dimension: inch/mm

Mini Drum Core Inductor

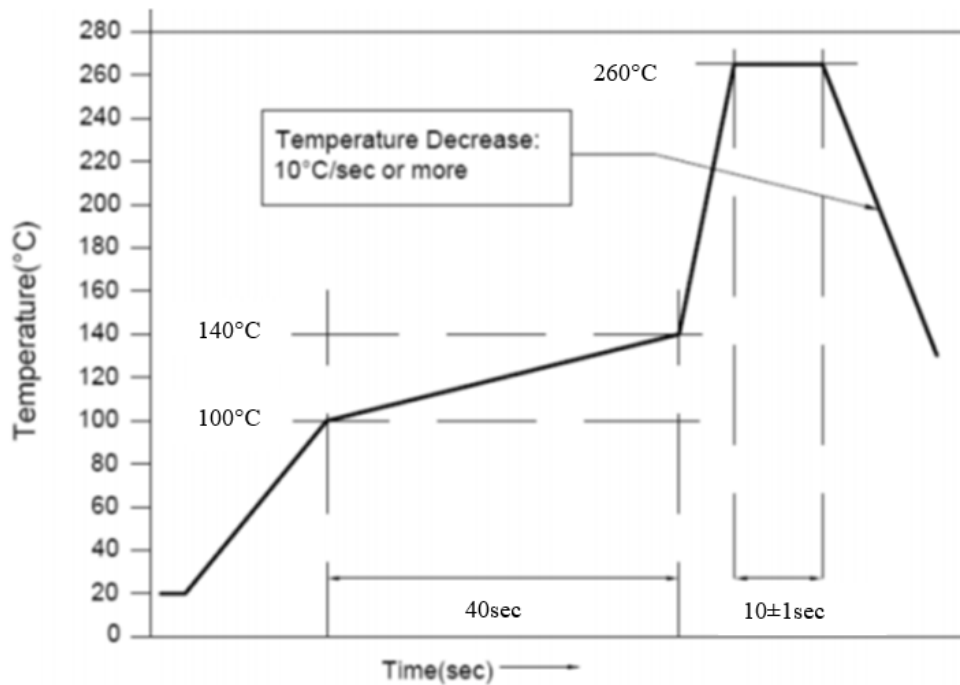
AIUR-02H Series



RoHS/RoHS II compliant

12.0 x ϕ 8.5 mm

➤ WAVE SOLDERING PROFILE:



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