Mini Drum Core Inductor

AIUR-03 Series

RoHS/RoHS II Compliant



12.0 x ϕ9.0 mm

FEATURES:

- Ferrite core with heat shrink tube
- High Reliability

APPLICATIONS:

- Electronic Appliance
- Automotive system

STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N:	AIUR-03 Series
Operating temperature:	-25°C to + 85°C
Storage temperature:	-25°C to + 125°C

Part Number	Inductance	Tolerance	Q (Min)	Test Frequency	DCR (Max)	Saturation Current (Max)	Temperature Rise Current (Max)	SRF (Min)	Inductance Code
Units	µH	%		MHz	Ω	A	A	MHz	
Symbol	L	J, K, M			DCR	Isat	I_{DC}		
AIUR-03-1R0	1.0	M	20	7.96	0.013	10.0	3.5	150	1R0M
AIUR-03-1R5	1.5	M	20	7.96	0.016	8.5	3.3	130	1R5M
AIUR-03-2R2	2.2	M	20	7.96	0.021	6.5	3.2	100	2R2M
AIUR-03-3R3	3.3	M	20	7.96	0.025	5.5	2.9	79	3R3M
AIUR-03-4R7	4.7	M	20	7.96	0.030	4.3	2.5	51	4R7M
AIUR-03-6R8	6.8	M	20	7.96	0.035	3.7	2.3	29	6R8M
AIUR-03-100	10	J, K	50	2.52	0.045	3.0	2.0	14	100J/100K
AIUR-03-120	12	J, K	50	2.52	0.050	2.7	1.9	13	120J/120K
AIUR-03-150	15	J, K	50	2.52	0.056	2.3	1.8	12	150J/150K
AIUR-03-180	18	J, K	40	2.52	0.061	2.2	1.6	11	180J/180K
AIUR-03-220	22	J, K	40	2.52	0.070	2.0	1.4	9.2	220J/220K
AIUR-03-270	27	J, K	40	2.52	0.080	1.7	1.3	8.5	270J/270K
AIUR-03-330	33	J, K	30	2.52	0.090	1.6	1.1	7.8	330J/330K
AIUR-03-390	39	J, K	30	2.52	0.10	1.5	1.1	6.9	390J/390K
AIUR-03-470	47	J, K	30	2.52	0.16	1.4	0.99	6.5	470J/470K
AIUR-03-560	56	J, K	30	2.52	0.18	1.3	0.90	5.4	560J/560K
AIUR-03-680	68	J, K	30	2.52	0.21	1.2	0.81	4.9	680J/680K
AIUR-03-820	82	J, K	30	2.52	0.23	1.1	0.76	4.1	820J/820K
AIUR-03-101	100	J, K	20	0.796	0.28	0.91	0.72	3.7	101J/101K
AIUR-03-121	120	J, K	20	0.796	0.32	0.84	0.67	3.4	121J/121K
AIUR-03-151	150	J, K	20	0.796	0.37	0.75	0.61	3.2	151J/151K
AIUR-03-181	180	J, K	20	0.796	0.58	0.69	0.54	2.8	181J/181K
AIUR-03-221	220	J, K	20	0.796	0.65	0.64	0.50	2.7	221J/221K
AIUR-03-331	330	J, K	20	0.796	0.85	0.54	0.39	2.3	331J/331K
AIUR-03-391	390	J, K	20	0.796	1.00	0.48	0.37	2.1	391J/391K
AIUR-03-471	470	J, K	20	0.796	1.10	0.46	0.32	1.9	471J/471K
AIUR-03-561	560	J, K	20	0.796	1.40	0.41	0.30	1.8	561J/561K
AIUR-03-681	680	J, K	20	0.796	1.60	0.38	0.27	1.6	681J/681K
AIUR-03-821	820	J, K	20	0.796	1.80	0.35	0.24	1.5	821J/821K
AIUR-03-102	1000	J, K	50	0.252	2.90	0.29	0.22	1.3	102J/102K

Test Conditions and equipments

DCR: QuadTech Milliohmmeter

Isat: 10% inductance drops from initial value

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

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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12.0 x ϕ9.0 mm

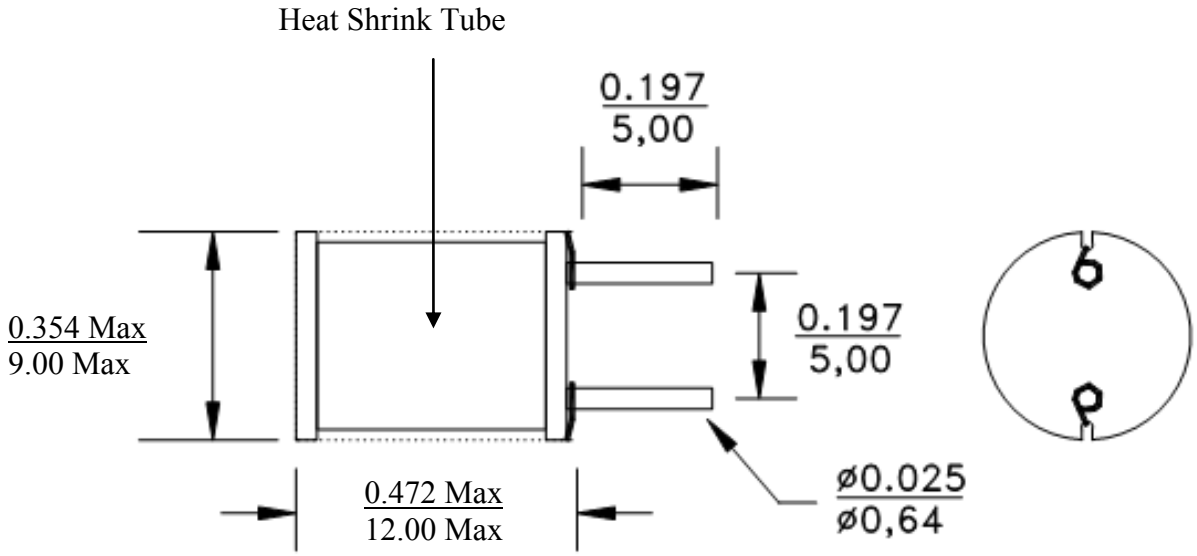
OPTIONS & PART IDENTIFICATION:

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AIUR-03-[ ][ ]

Inductance Code	Tolerance
Please refer to the Electrical Spec Table	J: ±5%
	K: ±10%
	M: ±20%

OUTLINE DRAWING:



Dimension: inch/mm

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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