

ECN/PCN No.: M1204

For Manufacturer			
<b>Product Description:</b> Unshielded Radial Power Inductor	<b>Abraccon Part Number / Part Series:</b> AIUR-10 Series	<input type="checkbox"/> Documentation only <input checked="" type="checkbox"/> ECN <input checked="" type="checkbox"/> EOL	<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number(s)
<b>Affected Revision:</b> B	<b>New Revision:</b> C	<b>Application:</b> <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety	

**Prior to Change:**

**1.0 Key Electrical Specifications**

Part Number	Inductance	Tolerance	DCR (Max)	Rated Current (Max)	Inductance Code
Units	μH	%	Ω	A	
Symbol	L	K	DCR	IDC	
AIUR-10-5R6	5.6	K	0.08	2.45	5R6K
AIUR-10-100	10	K	0.08	2.45	100K
AIUR-10-120	12	K	0.09	2.30	120K
AIUR-10-150	15	K	0.10	2.00	150K
AIUR-10-180	18	K	0.12	1.80	180K
AIUR-10-220	22	K	0.13	1.67	220K
AIUR-10-270	27	K	0.14	1.59	270K
AIUR-10-330	33	K	0.15	1.27	330K
AIUR-10-390	39	K	0.16	1.19	390K
AIUR-10-470	47	K	0.23	1.16	470K
AIUR-10-560	56	K	0.26	1.08	560K
AIUR-10-680	68	K	0.27	1.02	680K
AIUR-10-820	82	K	0.31	0.86	820K
AIUR-10-101	100	K	0.44	0.77	101K
AIUR-10-121	120	K	0.50	0.73	121K
AIUR-10-151	150	K	0.58	0.59	151K
AIUR-10-181	180	K	0.65	0.55	181K
AIUR-10-221	220	K	0.85	0.45	221K
AIUR-10-271	270	K	0.99	0.41	271K
AIUR-10-331	330	K	1.12	0.35	331K
AIUR-10-391	390	K	1.26	0.32	391K
AIUR-10-471	470	K	1.68	0.28	471K
AIUR-10-561	560	K	1.88	0.24	561K
AIUR-10-681	680	K	2.18	0.23	681K
AIUR-10-821	820	K	2.71	0.21	821K
AIUR-10-102	1000	K	3.01	0.20	102K
AIUR-10-122	1200	K	3.41	0.18	122K
AIUR-10-152	1500	K	4.00	0.17	152K
AIUR-10-182	1800	K	6.12	0.16	182K
AIUR-10-222	2200	K	6.98	0.16	222K
AIUR-10-272	2700	K	7.97	0.16	272K
AIUR-10-332	3300	K	11.8	0.15	332K
AIUR-10-392	3900	K	13.0	0.14	392K
AIUR-10-103	10000	K	25.0	0.10	103K

## 2.1 Test Conditions

Test frequency: 1KHz for 100μH~10,000μH; 2.52MHz for 10μH~82μH; 7.96MHz for 5.6μH  
 Rated Current: The DC current at which the inductance drops to 90% of its initial value

**2.2 Operating Temperature:** -55°C ~ +85°C with full rated current, -55°C ~ +125°C with no load.

**2.3 Storage Temperature:** -40°C ~ +85°C

**7.0 Packing** (1,000pcs / Box)

### After Change:

## 2.0 Key Electrical Specifications

Part Number	Inductance	Tolerance	DCR (Max)	Rated Current (Max)	Inductance Code
Units	μH	%	Ω	A	
Symbol	L	K	DCR	IDC	
<b>AIUR-10-5R6</b>	<b>5.6</b>	<b>K</b>	<b>0.08</b>	<b>2.45</b>	<b>5R6K</b>
AIUR-10-100	10	K	0.08	2.45	100K
AIUR-10-120	12	K	0.09	2.30	120K
AIUR-10-150	15	K	0.10	2.00	150K
AIUR-10-180	18	K	0.12	1.80	180K
AIUR-10-220	22	K	0.13	1.67	220K
AIUR-10-270	27	K	0.14	1.59	270K
AIUR-10-330	33	K	0.15	1.27	330K
AIUR-10-390	39	K	0.16	1.19	390K
AIUR-10-470	47	K	0.23	1.16	470K
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AIUR-10-680	68	K	0.27	1.02	680K
AIUR-10-820	82	K	0.31	0.86	820K
AIUR-10-101	100	K	0.44	0.77	101K
AIUR-10-121	120	K	0.50	0.73	121K
AIUR-10-151	150	K	0.58	0.59	151K
AIUR-10-181	180	K	0.65	0.55	181K
AIUR-10-221	220	K	0.85	0.45	221K
AIUR-10-271	270	K	0.99	0.41	271K
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AIUR-10-332	3300	K	11.8	0.15	332K
AIUR-10-392	3900	K	13.0	0.14	392K
<b>AIUR-10-103</b>	<b>10000</b>	<b>K</b>	<b>25.0</b>	<b>0.10</b>	<b>103K</b>

- 2.4 Test Conditions**  
 Test frequency: 1KHz @ 0.25V  
 Rated Current: The DC current at which the inductance drops to 90% of its initial value
- 2.5 Operating Temperature:** -40°C ~ +125°C (including self-heating)
- 2.6 Storage Temperature:** -40°C ~ +125°C
- 3.0 Packing (500pcs/bag)**

**Cause/Reason for Change:**

Moving the series to a new production line, some discontinued parts, change in operating temperature range, testing conditions and, pcs/bag

### Change Plan

<b>Effective Date:</b> 12/3/2020	<b>Additional Remarks:</b>
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**Change Declaration:**

The change does not affect form fit of the series. The update includes: Wider operating temperature, update to the testing conditions, pcs/bag.

The following parts were discontinued:

- AIUR-10-5R6
- AIUR-10-103

<b>Issued Date:</b> 12/3/2020	<b>Issued By:</b> <i>Ahmed ALamin</i>	<b>Issued Department:</b> Engineering
<b>Approval:</b> <i>Syed Raza</i> Engineering VP	<b>Approval:</b> <i>Reuben Quintanilla</i> Quality Director	<b>Approval:</b> <i>Ying Huang</i> Purchasing Director

### For Abracon EOL only

<b>Last Time Buy (if applicable):</b>	<b>Alternate Part Number / Part Series:</b>
<b>Additional Approval:</b>	<b>Additional Approval:</b>

### Customer Approval (If Applicable)

**Qualification Status:**

Approved  Not accepted

*Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.*

<b>Customer Part Number:</b>	<b>Customer Project:</b>
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<b>Company Name:</b>	<b>Company Representative:</b>	<b>Representative Signature:</b>
<b>Customer Remarks:</b>		