

ECN/PCN No.: M1207

For Manufacturer			
Product Description: Axial Power Inductor	Abracon Part Number / Part Series: AIAP-03	<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)
Affected Revision: F	New Revision: G	Application:	
		<input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety	

Prior to Change:

1.0 Key Electrical Specifications

Part No.	L(μH)	Tolerance	DCR(Ω)	I _{dc} (A)	Inductance Code
		(%)	(max)	(max)	
AIAP-03-3R9	3.9	K	0.007	15.50	3R9K
AIAP-03-4R7	4.7	K	0.008	13.90	4R7K
AIAP-03-5R6	5.6	K	0.011	12.60	5R6K
AIAP-03-6R8	6.8	K	0.013	11.60	6R8K
AIAP-03-8R2	8.2	K	0.017	9.89	8R2K
AIAP-03-100	10	K	0.019	8.70	100K
AIAP-03-120	12	K	0.020	8.21	120K
AIAP-03-150	15	K	0.022	7.34	150K
AIAP-03-180	18	K	0.023	6.64	180K
AIAP-03-220	22	K	0.026	6.07	220K
AIAP-03-270	27	K	0.027	5.36	270K
AIAP-03-330	33	K	0.032	4.83	330K
AIAP-03-390	39	K	0.033	4.36	390K
AIAP-03-470	47	K	0.035	3.98	470K
AIAP-03-560	56	K	0.037	3.66	560K
AIAP-03-680	68	K	0.047	3.31	680K
AIAP-03-820	82	K	0.060	3.10	820K
AIAP-03-101	100	K	0.090	2.79	101K
AIAP-03-121	120	K	0.113	2.54	121K
AIAP-03-151	150	K	0.129	2.22	151K
AIAP-03-181	180	K	0.150	1.98	181K
AIAP-03-221	220	K	0.162	1.89	221K
AIAP-03-271	270	K	0.208	1.63	271K
AIAP-03-331	330	K	0.212	1.51	331K
AIAP-03-391	390	K	0.281	1.39	391K
AIAP-03-471	470	K	0.380	1.24	471K
AIAP-03-561	560	K	0.420	1.17	561K
AIAP-03-681	680	K	0.548	1.050	681K
AIAP-03-821	820	K	0.655	0.970	821K
AIAP-03-102	1000	K	0.844	0.870	102K
AIAP-03-122	1200	K	1.04	0.790	122K
AIAP-03-152	1500	K	1.18	0.700	152K
AIAP-03-182	1800	K	1.56	0.640	182K
AIAP-03-222	2200	K	2.00	0.580	222K
AIAP-03-272	2700	K	2.06	0.530	272K
AIAP-03-332	3300	K	2.63	0.470	332K
AIAP-03-392	3900	K	2.75	0.430	392K
AIAP-03-472	4700	K	3.19	0.390	472K
AIAP-03-562	5600	K	3.92	0.359	562K
AIAP-03-682	6800	K	5.69	0.322	682K
AIAP-03-822	8200	K	6.32	0.293	822K
AIAP-03-103	10000	K	7.30	0.266	103K
AIAP-03-123	12000	K	10.0	0.257	123K
AIAP-03-153	15000	K	11.2	0.230	153K

1.0 Key Electrical Specifications (Cont'd)

Part No.	L(μH)	Tolerance	DCR(Ω)	I _{DC} (A)	Inductance Code
		(%)	(max)	(max)	
AIAP-03-183	18000	K	15.2	0.210	183K
AIAP-03-223	22000	K	16.8	0.190	223K
AIAP-03-273	27000	K	18.6	0.171	273K
AIAP-03-333	33000	K	26.7	0.155	333K
AIAP-03-393	39000	K	29.0	0.143	393K
AIAP-03-473	47000	K	31.8	0.131	473K
AIAP-03-563	56000	K	42.6	0.119	563K
AIAP-03-683	68000	K	46.9	0.108	683K
AIAP-03-823	82000	K	64.9	0.099	823K
AIAP-03-104	100000	K	71.7	0.098	104K
AIAP-03-124	120000	K	37.0	0.070	124K

1.1 Test Conditions and equipments

Test frequency: 1kHz 0.1V_{rms}
I_{DC}: 10% inductance drops typical

1.2 Operating Temperature

-55°C ~ +125°C

1.3 Storage Temperature

-40°C ~ +105°C

2.0 Packing (500pcs / box)
After Change:
2.0 Key Electrical Specifications

Part No.	L(μH)	Tolerance	DCR(Ω)	I _{DC} (A)	Inductance Code
		(%)	(max)	(max)	
AIAP-03-3R9	3.9	M	0.007	15.50	3R9M
AIAP-03-4R7	4.7	M	0.008	13.90	4R7M
AIAP-03-5R6	5.6	M	0.011	12.60	5R6M
AIAP-03-6R8	6.8	M	0.013	11.60	6R8M
AIAP-03-8R2	8.2	K	0.017	9.89	8R2K
AIAP-03-100	10	K	0.019	8.70	100K
AIAP-03-120	12	K	0.020	8.21	120K
AIAP-03-150	15	K	0.022	7.34	150K
AIAP-03-180	18	K	0.023	6.64	180K
AIAP-03-220	22	K	0.026	6.07	220K
AIAP-03-270	27	K	0.027	5.36	270K
AIAP-03-330	33	K	0.032	4.83	330K
AIAP-03-390	39	K	0.033	4.36	390K
AIAP-03-470	47	K	0.035	3.98	470K
AIAP-03-560	56	K	0.037	3.66	560K
AIAP-03-680	68	K	0.047	3.31	680K
AIAP-03-820	82	K	0.060	3.10	820K
AIAP-03-101	100	K	0.090	2.79	101K
AIAP-03-121	120	K	0.113	2.54	121K
AIAP-03-151	150	K	0.129	2.22	151K

AIAP-03-181	180	K	0.150	1.98	181K
AIAP-03-221	220	K	0.162	1.89	221K
AIAP-03-271	270	K	0.208	1.63	271K
AIAP-03-331	330	K	0.212	1.51	331K
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AIAP-03-561	560	K	0.420	1.17	561K
AIAP-03-681	680	K	0.548	1.050	681K
AIAP-03-821	820	K	0.655	0.970	821K
AIAP-03-102	1000	K	0.844	0.870	102K
AIAP-03-122	1200	K	1.04	0.790	122K
AIAP-03-152	1500	K	1.18	0.700	152K
AIAP-03-182	1800	K	1.56	0.640	182K
AIAP-03-222	2200	K	2.00	0.580	222K
AIAP-03-272	2700	K	2.06	0.530	272K
AIAP-03-332	3300	K	2.63	0.470	332K
AIAP-03-392	3900	K	2.75	0.430	392K
AIAP-03-472	4700	K	3.19	0.390	472K
AIAP-03-562	5600	K	3.92	0.359	562K
AIAP-03-682	6800	K	5.69	0.322	682K
AIAP-03-822	8200	K	6.32	0.293	822K
AIAP-03-103	10000	K	7.30	0.266	103K
AIAP-03-123	12000	K	10.0	0.257	123K
AIAP-03-153	15000	K	11.2	0.230	153K

1.2 Test Conditions and equipments

Test frequency: 1kHz 0.25Vrms
 I_{DC}: 10% inductance drops typical

1.4 Operating Temperature

-40°C ~ +125 °C (including self-heating)

1.5 Storage Temperature

-40°C ~ +125 °C

3.0 Packing (100pcs/bag)

Cause/Reason for Change: Moving the series to a new production line, change in operating temperature, testing conditions, pcs/bag,

Relaxed tolerance on some parts:

AIAP-03-3R9

AIAP-03-4R7

AIAP-03-5R6

AIAP-03-6R8

with some discontinued parts:

AIAP-03-183

AIAP-03-223

AIAP-03-273

AIAP-03-333

AIAP-03-393

AIAP-03-473

AIAP-03-563

AIAP-03-683
 AIAP-03-823
 AIAP-03-104
 AIAP-03-124

Change Plan

Effective Date: 12/3/2020	Additional Remarks:
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Change Declaration: The change doesn't affect form, fit, of the parts. There is a change in operating temperature, testing conditions, pcs/bag.
 The tolerances on the following were relaxed:
 AIAP-03-3R9
 AIAP-03-4R7
 AIAP-03-5R6
 AIAP-03-6R8

The following parts were discontinued :

AIAP-03-183
 AIAP-03-223
 AIAP-03-273
 AIAP-03-333
 AIAP-03-393
 AIAP-03-473
 AIAP-03-563
 AIAP-03-683
 AIAP-03-823
 AIAP-03-104
 AIAP-03-124

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

For Abracon EOL only

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

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.

Customer Part Number:	Customer Project:
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Company Name:	Company Representative:	Representative Signature:
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Customer Remarks: