

Axial Power Inductor



AIAP-02

Request Samples



Check Inventory



14.0 x ϕ 6.8mm

RoHS/RoHS II Compliant

MSL Level = 1

Features

- Low-cost axial leaded inductors
- High current rating
- Wide inductance range
- Covered with UL heat shrink tubing

Applications

- Power supplies
- Switching circuits
- TV and audio equipment
- Telecommunication devices
- RF and other filters

Electrical Specifications

Part No.	L(μ H)	Tolerance	DCR(Ω) max	I _{DC} (A) max	Inductance Code
AIAP-02-3R9	3.9	M	0.019	7.3	3R9M
AIAP-02-4R7	4.7	M	0.022	6.3	4R7M
AIAP-02-5R6	5.6	M	0.024	5.6	5R6M
AIAP-02-6R8	6.8	M	0.026	5.3	6R8M
AIAP-02-8R2	8.2	K	0.028	4.5	8R2K
AIAP-02-100	10	K	0.033	4.1	100K
AIAP-02-120	12	K	0.037	3.6	120K
AIAP-02-150	15	K	0.040	3.3	150K
AIAP-02-180	18	K	0.044	3.0	180K
AIAP-02-220	22	K	0.050	2.7	220K
AIAP-02-270	27	K	0.056	2.5	270K
AIAP-02-330	33	K	0.076	2.2	330K
AIAP-02-390	39	K	0.094	2.0	390K
AIAP-02-470	47	K	0.109	1.8	470K
AIAP-02-560	56	K	0.131	1.7	560K
AIAP-02-680	68	K	0.142	1.5	680K
AIAP-02-820	82	K	0.165	1.4	820K
AIAP-02-101	100	K	0.208	1.2	101K
AIAP-02-121	120	K	0.283	1.1	121K
AIAP-02-151	150	K	0.340	1.0	151K
AIAP-02-181	180	K	0.362	0.95	181K
AIAP-02-221	220	K	0.430	0.86	221K
AIAP-02-271	270	K	0.557	0.77	271K
AIAP-02-331	330	K	0.655	0.70	331K
AIAP-02-391	390	K	0.772	0.64	391K
AIAP-02-471	470	K	1.150	0.59	471K
AIAP-02-561	560	K	1.27	0.54	561K
AIAP-02-681	680	K	1.61	0.49	681K
AIAP-02-821	820	K	1.96	0.44	821K



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
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AIAP-02-102	1000	K	2.30	0.40	102K
AIAP-02-122	1200	K	2.65	0.35	122K
AIAP-02-152	1500	K	3.45	0.33	152K
AIAP-02-182	1800	K	4.03	0.29	182K
AIAP-02-222	2200	K	4.48	0.27	222K
AIAP-02-272	2700	K	5.40	0.24	272K
AIAP-02-332	3300	K	6.56	0.22	332K
AIAP-02-392	3900	K	8.63	0.20	392K
AIAP-02-472	4700	K	9.66	0.18	472K
AIAP-02-562	5600	K	13.9	0.17	562K
AIAP-02-682	6800	K	16.3	0.15	682K
AIAP-02-822	8200	K	20.8	0.14	822K
AIAP-02-103	10000	K	26.4	0.14	102K
AIAP-02-123	12000	K	29.9	0.11	123K
AIAP-02-153	15000	K	42.5	0.10	153K
AIAP-02-183	18000	K	48.3	0.09	183K

Test Conditions and equipment

Test frequency: 1kHz, 0.25Vrms

I_{DC}: 10% inductance drops typical

Tolerance Codes

M: \pm 20%, K: \pm 10%

Operating Temperature

-40°C ~ +125 °C (Including Self-heating)

Storage Temperature

-40°C ~ +125 °C

AIAP-02 is RoHS/RoHS II Compliant and Pb free



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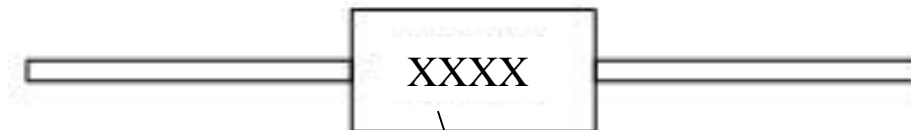
Part Identification

AIAP-02-

Inductance Code
Please refer to table #1

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

Marking



Inductance Code

(Please refer to table #1)

Marking Method = Ink Marking



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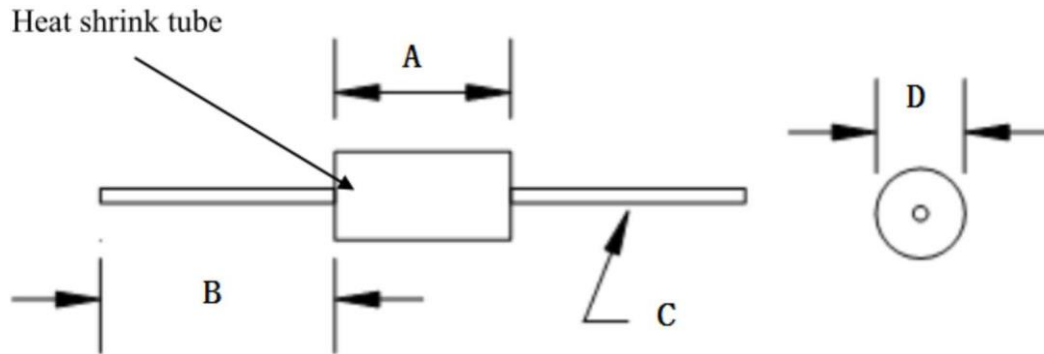


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Mechanical Specifications



A	B	C	D
14.0 MAX	29.2 \pm 2	0.8	6.8 MAX

Dimension: mm

Packaging

Packaging: (105pcs / tray)

ATTENTION: Abracon LLC'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-dependent 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 LLC is required. Please contact Abracon LLC for more information.



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1.0 Note

- i) The parts are manufactured in accordance with this specification. If other conditions and specifications which are required for this specification, please contact ABRACON for more information.
- ii) ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.
- iii) In no case shall ABRACON be liable for any product failure from in appropriate handling or operation of the item beyond the scope of this specification.
- iv) When changing your production process, please notify ABRACON immediately.
- v) ABRACON'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-dependent 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 LLC. is required. Please contact ABRACON LLC for more information.

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1. **Prices:** Prices shown on the face hereof are in US dollars, with delivery terms specified herein and are exclusive of any other charges including, without limitation, fees for export, special packaging, freight, insurance and similar charges. AB reserves the right to increase the price of Products by written notice to Buyer at least thirty (30) days prior to the original date of shipment. When quantity price discounts are quoted by AB, the discounts are computed separately for each type of product to be sold and are based upon the quantity of each type and each size ordered at any one time. If any discounted order is reduced by Buyer with AB's consent, the prices shall be adjusted to the higher prices, if applicable, for the remaining order.
2. **Taxes:** Unless otherwise specified in the quotation, the prices do not include any taxes, import or export duties, tariffs, customs charges or any such other levies. Buyer agrees to reimburse AB the amount of any federal, state, county, municipal, or other taxes, duties, tariffs, or custom charges AB is required to pay. If Buyer is exempt from any such charges, Buyer must provide AB with appropriate documentation.
3. **Payment Terms:** For each shipment, AB will invoice Buyer for the price of the Products plus all applicable taxes, packaging, transportation, insurance and other charges. Unless otherwise stated in a separate agreement or in AB's quotation, payments are due within thirty (30) days from the date of invoice, subject to AB's approval of Buyer's credit application. All invoicing disputes must be submitted in writing to AB within ten (10) days of the receipt of the invoice accompanied by a reasonably detailed explanation of the dispute. Payment of the undisputed amounts shall be made timely. AB reserves the right to require payment in advance or C.O.D. and otherwise modified credit terms. When partial shipments are made, payments for such shipments shall become due in accordance with the above terms upon submission of invoices. If, at the request of Buyer, shipment is postponed for more than thirty (30) days, payment will become due thirty days after notice to Buyer that Products

are ready for shipment. Any unpaid due amounts will be subject to interest at one decimal five percent (1.5%) per month, or, if less, the maximum rate allowed by law.

4. **Delivery and Shipment:** Shipment dates are estimates only. Failure to deliver by a specified date shall neither entitle Buyer to any compensation nor impose any liability on AB. AB reserves the right to ship and bill ten percent more or less than the exact quantity specified on the face hereof. All shipments will be made Ex Works as per Incoterms 2000 from AB's place of shipment. In the absence of specific instructions, AB will select the carrier. Claims against AB for shortages must be made in writing within ten (10) days after the arrival of the shipment. AB is not required to notify Buyer of the shipment. Buyer shall pay all freight charges, insurance and other shipping expenses. Freight charges, insurance and other shipping expenses itemized in advance of actual shipment, if any, are estimates only that are calculated on the basis of standard tariffs and may not reflect actual costs. Buyer must pay actual costs.
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8. **Security Interest:** Buyer hereby grants AB a purchase money security interest in the Products sold and in the proceeds of resale of such Products until such time as Buyer has paid all charges. AB retains all right and remedies available to AB under the Uniform Commercial Code.
9. **Specifications:** Specifications for each Product are the specifications specified in the published datasheets of such Product, as of the date of AB's quotation (the "Specifications"). Except as otherwise agreed, AB reserves the right to modify the Specifications at any time without adversely affecting the functionality.
10. **Acceptance:** Unless Buyer notifies AB in writing within ten (10) days from the date of receipt of Products that the Products fail to conform to the Specifications, the Products will be deemed accepted by Buyer. No such claim of non-conformity shall be valid if (i) the Products have been altered, modified or damaged by Buyer, (ii) the rejection notice fails to explain the non-conformance in reasonable detail and is not accompanied by a test report evidencing the non-conformity, or (iii) rejected Products are not returned to AB within thirty (30) days of rejection; provided, that no Product returns may be made without a return material authorization issued by AB.
11. **Limited Warranties and Disclaimers:** AB warrants to Buyer that each Product, for a period of twelve (12) months from shipment date thereof, will conform to the Specifications and be free from defects in materials and workmanship. AB's sole liability and Buyer's exclusive remedy for Products that fail to conform to this limited warranty ("Defective Products") is limited to repair or replacement of such Defective Products, or issue a credit or rebate of no more than the purchase price of such Defective Products, at AB's sole option and election. This warranty shall not apply: (i) if Products have been damaged or submitted to abnormal conditions (mechanical, electrical, or thermal) during transit, storage, installation, or use; or (ii) if Products are subject to Improper Use (as defined below); or (iii) if the non-conformance of Products results from misuse, neglect, improper testing, storage, installation, unauthorized repair, alteration, or excess usage at or beyond the maximum values (temperature limit, maximum voltage, and other Specification limits) defined by AB; (iv) to any other default not attributable to AB; or (v) removal, alteration, or tampering of the original AB product labeling. This warranty does not extend

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14. **Miscellaneous:** In the event of any insolvency or inability to pay debts as they become due by Buyer, or voluntary or involuntary bankruptcy proceeding by or against Buyer, or appointment of a receiver or assignee for the benefit of creditors of Buyer, AB may elect to cancel any unfulfilled obligations. No Products or underlying information or technology may be exported or re-exported, directly or indirectly, contrary to US law or US Government export controls. AB will be excused from any obligation to the extent performance thereof is caused by, or arises in connection with, acts of God, fire, flood, riots, material shortages, strikes, governmental acts, disasters, earthquakes, inability to obtain labor or materials through its regular sources, delay in delivery by AB's supplies or any other reason beyond the reasonable control of AB. In the event any one or more of the provisions contained herein shall for any reason be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provision hereof and these terms shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein. A waiver of a breach or default under these terms shall not be a waiver of any subsequent default. Failure of AB to enforce compliance with any of these terms shall not constitute a waiver of such terms. These terms are governed by the laws of the State of California without reference to conflict of law principles. The federal and state courts located within the State of California will have exclusive jurisdiction to adjudicate any dispute arising out of these terms.