Axial Power Inductor



AIAP-02

Request Samples | Check Inventory

14.0 x ϕ6.8mm
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(µH)	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	0.152	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

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Part No.	L(µH)	Tolerance	DCR(Ω) max	I_{DC}(A) max	Inductance Code
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: ±20%, K: ±10%
Operating Temperature: -40ºC ~ +125 ºC (Including Self-heating）
Storage Temperature: -40ºC ~ +125 ºC
AIAP-02 is RoHS/RoHS II Compliant and Pb free

Part Identification

AIAP-02- [ ][ ][ ]

Inductance Code
Please refer to table #1

Tolerance
K: ±10%
M: ±20%

Packaging
Blank: Tray
A: Ammo Pack

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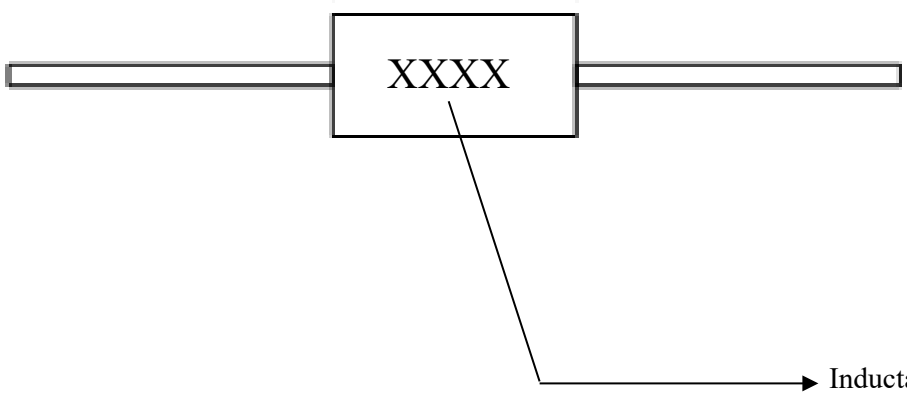


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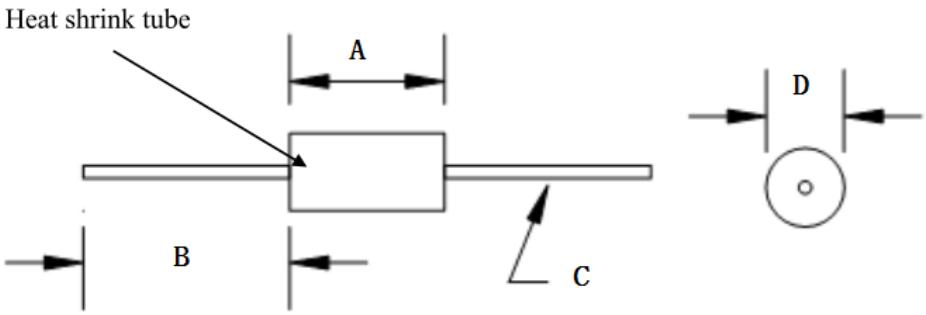
14.0 x ϕ6.8mm
RoHS/RoHS II Compliant
MSL Level = 1

Marking



Marking Method = Ink Marking

Mechanical Specifications



A*	B	C	D
14.0 MAX	29.2 ±2	0.8	6.8 MAX

* Measurement 'A' indicates core length. After winding and heat shrink tubing, length could be up to 16.5mm.

Dimension: mm

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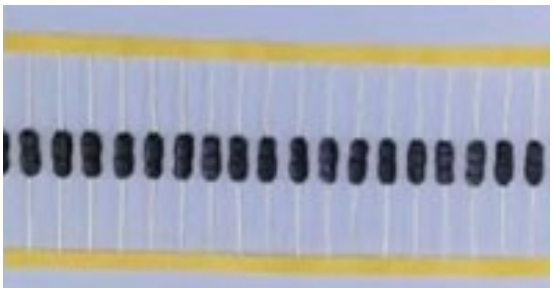
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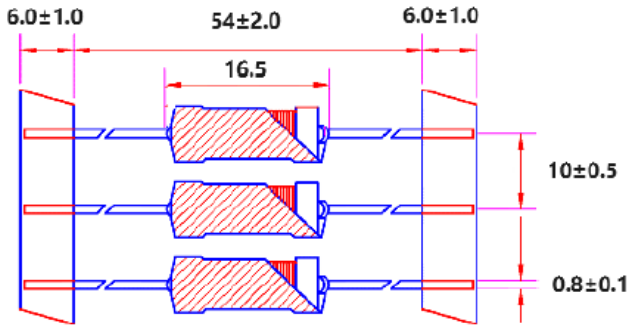
Packaging

Tray Packaging: (105pcs / tray)



Ammo Pack Packaging (500pcs / Box):





ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf (COTS, which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.

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