

Axial Power Inductor

AIAP-03



RoHS/RoHS II Compliant



22.9 x φ11.4mm

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)	I _{DC} (A)
		(%)	(max)	(max)
AIAP-03-3R9	3.9	K	0.007	15.50
AIAP-03-4R7	4.7	K	0.008	13.90
AIAP-03-5R6	5.6	K	0.011	12.60
AIAP-03-6R8	6.8	K	0.013	11.60
AIAP-03-8R2	8.2	K	0.017	9.89
AIAP-03-100	10	K	0.019	8.70
AIAP-03-120	12	K	0.020	8.21
AIAP-03-150	15	K	0.022	7.34
AIAP-03-180	18	K	0.023	6.64
AIAP-03-220	22	K	0.026	6.07
AIAP-03-270	27	K	0.027	5.36
AIAP-03-330	33	K	0.032	4.83
AIAP-03-390	39	K	0.033	4.36
AIAP-03-470	47	K	0.035	3.98
AIAP-03-560	56	K	0.037	3.66
AIAP-03-680	68	K	0.047	3.31
AIAP-03-820	82	K	0.060	3.10
AIAP-03-101	100	K	0.090	2.79
AIAP-03-121	120	K	0.113	2.54
AIAP-03-151	150	K	0.129	2.22
AIAP-03-181	180	K	0.150	1.98
AIAP-03-221	220	K	0.162	1.89
AIAP-03-271	270	K	0.208	1.63
AIAP-03-331	330	K	0.212	1.51
AIAP-03-391	390	K	0.281	1.39
AIAP-03-471	470	K	0.380	1.24
AIAP-03-561	560	K	0.420	1.17
AIAP-03-681	680	K	0.548	1.050
AIAP-03-821	820	K	0.655	0.970
AIAP-03-102	1000	K	0.844	0.870
AIAP-03-122	1200	K	1.04	0.790
AIAP-03-152	1500	K	1.18	0.700
AIAP-03-182	1800	K	1.56	0.640
AIAP-03-222	2200	K	2.00	0.580
AIAP-03-272	2700	K	2.06	0.530
AIAP-03-332	3300	K	2.63	0.470
AIAP-03-392	3900	K	2.75	0.430
AIAP-03-472	4700	K	3.19	0.390
AIAP-03-562	5600	K	3.92	0.359
AIAP-03-682	6800	K	5.69	0.322
AIAP-03-822	8200	K	6.32	0.293
AIAP-03-103	10000	K	7.30	0.266
AIAP-03-123	12000	K	10.0	0.257
AIAP-03-153	15000	K	11.2	0.230

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

Test Conditions and equipments

Test frequency: 1kHz 0.1V_{rms}

I_{DC}: 10% inductance drops typical

Operating Temperature

-55°C ~ +125 °C

Storage Temperature

-40°C ~ +105 °C

PART NUMBER IDENTIFICATION

AIAP-03-

Packing (500pcs / bag)

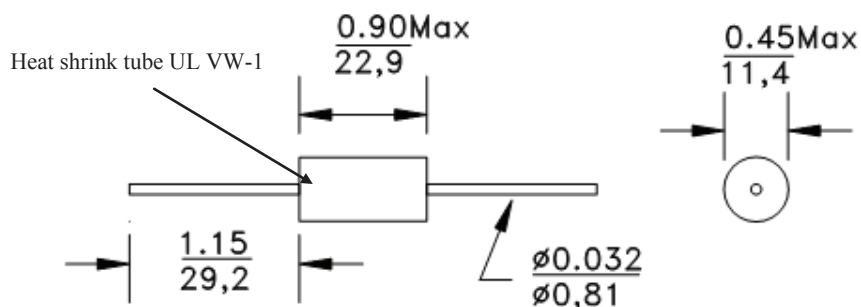
Inductance Code

Please refer to the table above

Tolerance

K: ±10%

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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