

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
ISO 9001:2008
CERTIFIED



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|-------------|--------|-----------|--------|---------------------|
| | | (%) | (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 (100pcs / bag)

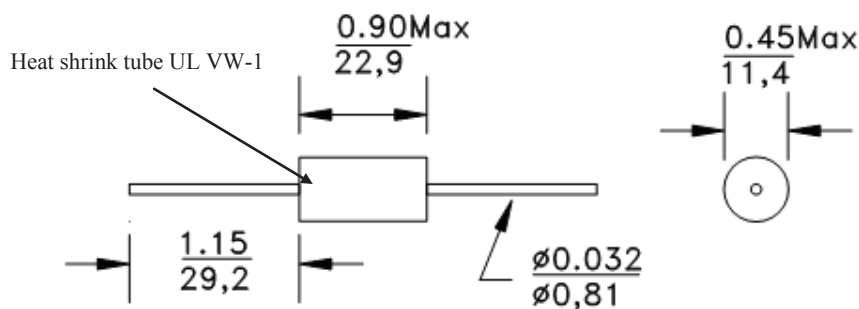
Inductance Code

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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