# Shielded Radial RF Choke

## AISR-01

RoHS/RoHS II Compliant



10.5 x ϕ10.5 mm

## FEATURES:

- Current rating up to 90mA
- Wide inductance range from 1mH to 120mH
- Shielded Construction

## APPLICATIONS:

- DC/DC converters
- Power supplies
- Desktop and notebooks
- Band pass filters and output chokes

## ELECTRICAL SPECIFICATIONS:

| | |
|---|---|
| Abracon P/N: | AISR-01 |
| Operating Temperature | -25˚C to +85˚C |
| Storage Temperature | -25˚C to +85˚C |

| Part No. AISR-01- Inductance Code | L(mH) | Tolerance (%) | Q (min) | L/Q Test Freq. (KHz) | SRF (MHz) (Min) | DCR(Ω) (max) | $I_{DC}$(mA) (max) |
|---|---|---|---|---|---|---|---|
| AISR-01-102 | 1.0 | J | 70 | 1/50 | 0.77 | 3.4 | 90 |
| AISR-01-122 | 1.2 | J | 70 | 1/50 | 0.70 | 3.7 | 75 |
| AISR-01-152 | 1.5 | J | 70 | 1/50 | 0.64 | 4.0 | 70 |
| AISR-01-182 | 1.8 | J | 70 | 1/50 | 0.57 | 4.5 | 65 |
| AISR-01-222 | 2.2 | J | 70 | 1/50 | 0.51 | 5.2 | 60 |
| AISR-01-272 | 2.7 | J | 70 | 1/50 | 0.48 | 5.8 | 55 |
| AISR-01-332 | 3.3 | J | 100 | 1/50 | 0.44 | 6.1 | 50 |
| AISR-01-392 | 3.9 | J | 100 | 1/50 | 0.41 | 7.2 | 45 |
| AISR-01-472 | 4.7 | J | 100 | 1/50 | 0.38 | 7.5 | 40 |
| AISR-01-562 | 5.6 | J | 100 | 1/50 | 0.35 | 8.4 | 40 |
| AISR-01-682 | 6.8 | J | 100 | 1/50 | 0.32 | 9.7 | 35 |
| AISR-01-822 | 8.2 | J | 100 | 1/50 | 0.28 | 10.4 | 30 |
| AISR-01-103 | 10 | J | 100 | 1/50 | 0.25 | 12.1 | 25 |
| AISR-01-123 | 12 | J | 100 | 1/50 | 0.22 | 13.0 | 25 |
| AISR-01-153 | 15 | J | 100 | 1/50 | 0.22 | 15.0 | 22 |
| AISR-01-183 | 18 | J | 100 | 1/50 | 0.19 | 17.0 | 22 |
| AISR-01-223 | 22 | J | 100 | 1/50 | 0.19 | 19.5 | 21 |
| AISR-01-273 | 27 | J | 100 | 1/50 | 0.16 | 22.0 | 18 |
| AISR-01-333 | 33 | J | 100 | 1/50 | 0.16 | 26.0 | 17 |
| AISR-01-363 | 36 | J | 100 | 1/50 | 0.20 | 27.0 | 16 |
| AISR-01-393 | 39 | J | 100 | 1/50 | 0.12 | 45.0 | 15 |
| AISR-01-473 | 47 | J | 100 | 1/50 | 0.12 | 52.0 | 13 |
| AISR-01-563 | 56 | J | 100 | 1/50 | 0.12 | 58.0 | 12 |
| AISR-01-683 | 68 | J | 100 | 1/50 | 0.09 | 67.0 | 11 |
| AISR-01-823 | 82 | J | 100 | 1/50 | 0.09 | 71.0 | 10 |
| AISR-01-104 | 100 | J | 100 | 1/50 | 0.09 | 82.0 | 9 |
| AISR-01-124 | 120 | J | 100 | 1/50 | 0.08 | 97.0 | 8 |

**Test Conditions:**

$I_{DC}$: The current when the inductance decreases to 90% of its initial value. (Ta=25ºC)

ABRACON

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ABRACON IS ISO9001-2015 CERTIFIED

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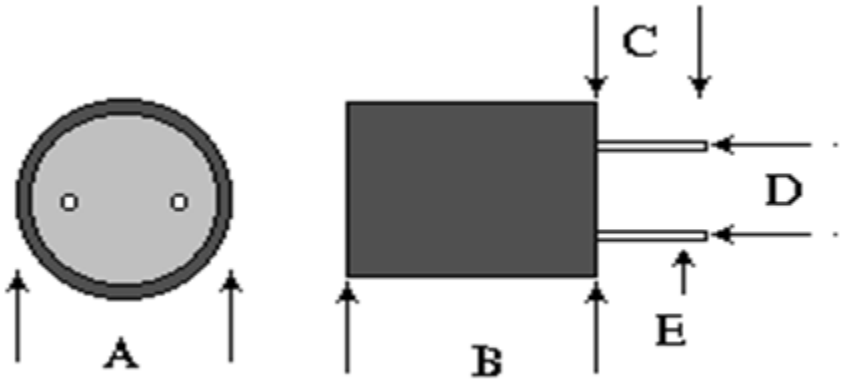
10.5 x ϕ10.5 mm

## ➢ PART IDENTIFICATION:

AISR-01- [ ] [ ]

| Inductance Code | Tolerance |
|---|---|
| Please refer to the table above | J: ±5% |

## ➢ OUTLINE DIMENSION:




| | |
|---|---|
| A | 10.5 Max |
| B | 10.5 Max |
| C | 5 |
| D | 5 |
| E | 0.7 Dia |

**Dimension: mm**

**Packing (Bulk: 100pcs / Box)**

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-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 LLC is required. Please contact Abracon LLC for more information.

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