

# AISR-01-682J Datasheet

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|                              |   |
|------------------------------|---|
| DiGi Electronics Part Number | AISR-01-682J-DG   |
| Manufacturer                 | <a href="#">Abracon LLC</a>   |
| Manufacturer Product Number  | AISR-01-682J  |
| Description                  | FIXED IND 6.8MH 35MA 9.7 OHM TH   |
| Detailed Description         | 6.8 mH Shielded Drum Core, Wirewound Inductor 3 5 mA 9.7Ohm Max Radial, Vertical Cylinder |



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DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

AISR-01-682J

Series:

AISR-01

Type:

Drum Core, Wirewound

Inductance:

6.8 mH

Current Rating (Amps):

35 mA

Shielding:

Shielded

Q @ Freq:

100 @ 50kHz

Ratings:

-

Inductance Frequency - Test:

1 kHz

Package / Case:

Radial, Vertical Cylinder

Size / Dimension:

0.425" Dia (10.80mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

±5%

Current - Saturation (Isat):

-

DC Resistance (DCR):

9.70hm Max

Frequency - Self Resonant:

320kHz

Operating Temperature:

-25°C ~ 85°C

Mounting Type:

Through Hole

Supplier Device Package:

-

Height - Seated (Max):

0.551" (14.00mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

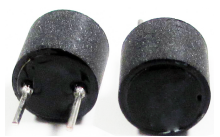
Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

## Shielded Radial RF Choke

10.5 x  $\phi$ 10.5 mm

AISR-01

RoHS/RoHS II Compliant

## 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.<br>AISR-01-<br>Inductance Code | L(mH) | Tolerance | Q     | L/Q Test<br>Freq. | SRF<br>(MHz) | DCR( $\Omega$ ) | I <sub>DC</sub> (mA) |
|---|-------|-----------|-------|-------------------|--------------|-----------------|----------------------|
|   |       | (%)       | (min) | (KHz)             | (Min)        | (max)           | (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<sub>DC</sub>: The current when the inductance decreases to 90% of its initial value. (Ta=25°C)

REVISED: 01-15-21

# Shielded Radial RF Choke

AISR-01-682J Abracon LLC FIXED IND 6.8MH 35MA 9.7 OHM TH

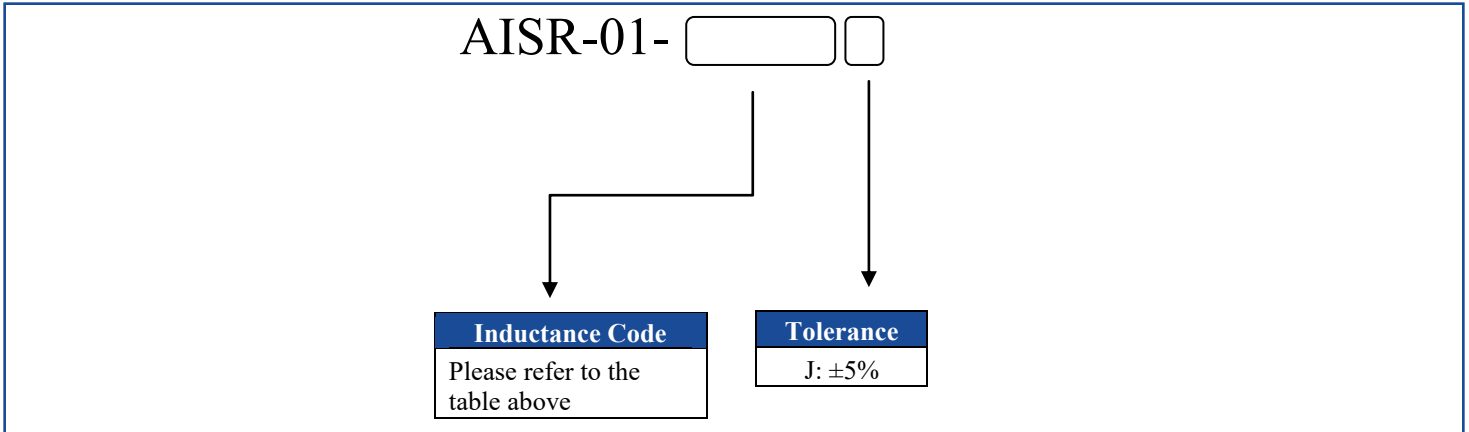


10.5 x φ10.5 mm

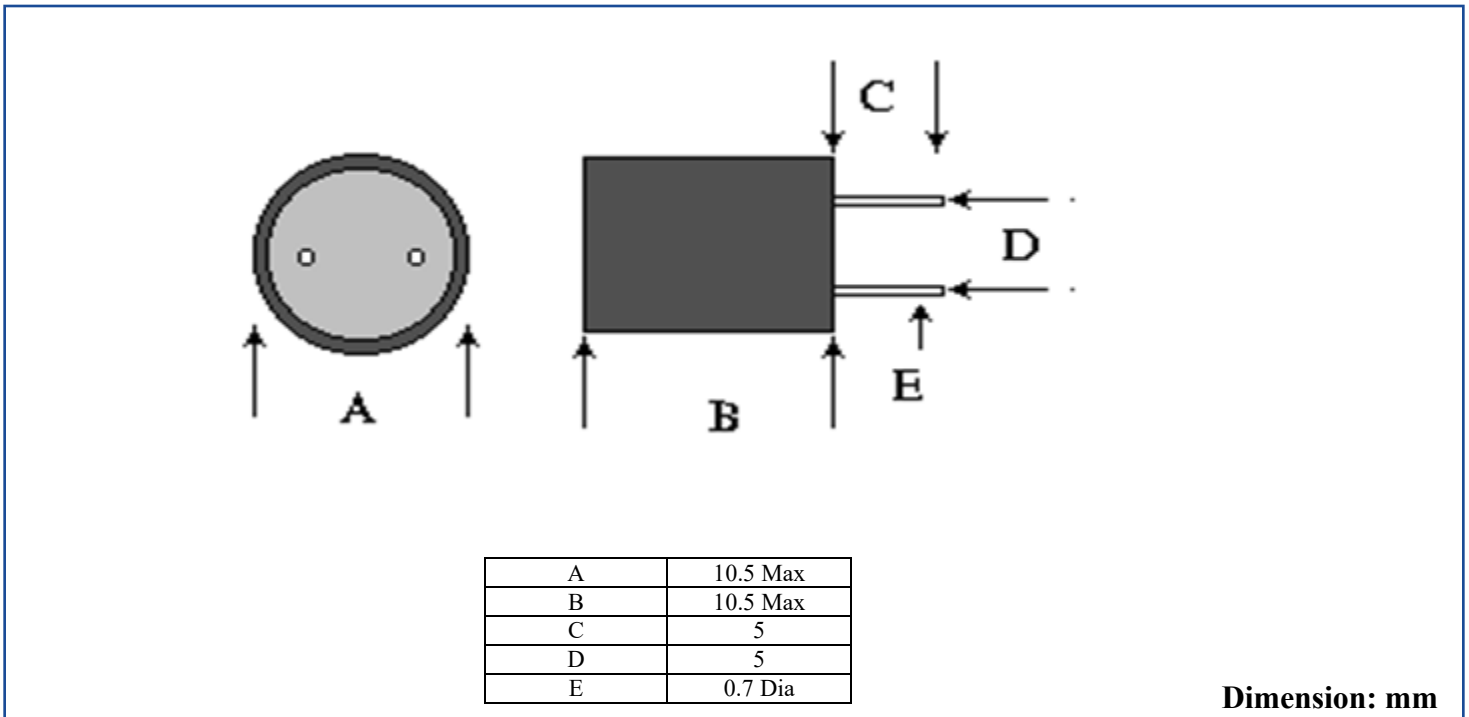
AISR-01

RoHS/RoHS II Compliant

## ➤ PART IDENTIFICATION:



## ➤ OUTLINE DIMENSION:



Packing (Bulk: 100pcs / Box)

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