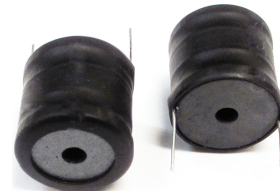


# RADIAL DRUM CORE POWER CHOKE

AIRD-04



RoHS/RoHS II Compliant



26.2 x  $\phi$ 38.1 mm

## FEATURES:

- Very high current capacity, low DCR
- Heat shrink tubing to protect winding
- Radial leads for direct PCB mounting
- Center hole designed for mechanical mounting

## APPLICATIONS:

- Ideal for use in Switching Regulator, Filter Network and Power Amplifier.
- Also suitable for SCR and Triac Control, Speaker Crossover Network and RFI Suppression.

## STANDARD SPECIFICATIONS

**Operating Temperature:** -40 °C ~ +105 °C

**Storage Temperature:** -40 °C ~ +105 °C

**Test Conditions**

Rated current: 50 °C max. temperature rise and 35% max. inductance drop

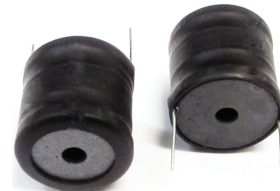
| Part Number<br>AIRD-04-<br>Inductance Code | Inductance | Tolerance | DCR (Max) | Rated<br>Current | Lead<br>Spacing<br>(Approx.) | Lead<br>Diameter<br>(Nom) | Marking |
|--------------------------------------------|------------|-----------|-----------|------------------|------------------------------|---------------------------|---------|
| Units                                      | $\mu$ H    | %         | $\Omega$  | A                | mm                           | mm                        |         |
| Symbol                                     | L          | K, M      | DCR       | Idc              | C                            | D                         |         |
| AIRD-04-1R8                                | 1.8        | M         | 0.002     | 27               | 28.2                         | 2.06                      | 1R8M    |
| AIRD-04-2R2                                | 2.2        | M         | 0.002     | 27               | 28.2                         | 2.06                      | 2R2M    |
| AIRD-04-2R7                                | 2.7        | M         | 0.003     | 27               | 28.2                         | 2.06                      | 2R7M    |
| AIRD-04-3R3                                | 3.3        | M         | 0.003     | 27               | 28.2                         | 2.06                      | 3R3M    |
| AIRD-04-3R9                                | 3.9        | M         | 0.003     | 27               | 28.2                         | 2.06                      | 3R9M    |
| AIRD-04-4R7                                | 4.7        | M         | 0.003     | 27               | 28.2                         | 2.06                      | 4R7M    |
| AIRD-04-5R6                                | 5.6        | M         | 0.004     | 27               | 28.2                         | 2.06                      | 5R6M    |
| AIRD-04-6R8                                | 6.8        | M         | 0.004     | 27               | 29.2                         | 2.06                      | 6R8M    |
| AIRD-04-8R2                                | 8.2        | M         | 0.004     | 27               | 29.2                         | 2.06                      | 8R2M    |
| AIRD-04-100                                | 10         | K         | 0.005     | 27               | 29.2                         | 2.06                      | 100K    |
| AIRD-04-120                                | 12         | K         | 0.005     | 27               | 29.2                         | 2.06                      | 120K    |
| AIRD-04-150                                | 15         | K         | 0.006     | 27               | 29.2                         | 2.06                      | 150K    |
| AIRD-04-180                                | 18         | K         | 0.008     | 27               | 29.2                         | 2.06                      | 180K    |
| AIRD-04-220                                | 22         | K         | 0.009     | 21               | 29.2                         | 2.06                      | 220K    |
| AIRD-04-270                                | 27         | K         | 0.010     | 21               | 29.2                         | 2.06                      | 270K    |
| AIRD-04-330                                | 33         | K         | 0.011     | 21               | 29.2                         | 1.83                      | 330K    |
| AIRD-04-390                                | 39         | K         | 0.012     | 21               | 29.2                         | 1.83                      | 390K    |
| AIRD-04-470                                | 47         | K         | 0.018     | 14.4             | 29.2                         | 1.83                      | 470K    |
| AIRD-04-560                                | 56         | K         | 0.019     | 14.4             | 29.2                         | 1.63                      | 560K    |
| AIRD-04-680                                | 68         | K         | 0.021     | 14.4             | 29.2                         | 1.63                      | 680K    |
| AIRD-04-820                                | 82         | K         | 0.023     | 14.30            | 29.2                         | 1.63                      | 820K    |
| AIRD-04-101                                | 100        | K         | 0.025     | 12.80            | 29.2                         | 1.63                      | 101K    |
| AIRD-04-121                                | 120        | K         | 0.028     | 11.80            | 29.2                         | 1.45                      | 121K    |
| AIRD-04-151                                | 150        | K         | 0.040     | 10.50            | 29.2                         | 1.45                      | 151K    |
| AIRD-04-181                                | 180        | K         | 0.045     | 9.60             | 29.2                         | 1.45                      | 181K    |
| AIRD-04-221                                | 220        | K         | 0.050     | 8.70             | 29.2                         | 1.30                      | 221K    |
| AIRD-04-271                                | 270        | K         | 0.056     | 7.80             | 29.2                         | 1.30                      | 271K    |
| AIRD-04-331                                | 330        | K         | 0.074     | 7.10             | 29.2                         | 1.30                      | 331K    |
| AIRD-04-391                                | 390        | K         | 0.082     | 6.50             | 29.2                         | 1.14                      | 391K    |
| AIRD-04-471                                | 470        | K         | 0.114     | 5.90             | 29.2                         | 1.14                      | 471K    |
| AIRD-04-561                                | 560        | K         | 0.125     | 5.40             | 29.2                         | 1.02                      | 561K    |
| AIRD-04-681                                | 680        | K         | 0.139     | 4.90             | 29.2                         | 1.02                      | 681K    |
| AIRD-04-821                                | 820        | K         | 0.154     | 4.50             | 29.2                         | 1.02                      | 821K    |
| AIRD-04-102                                | 1,000      | K         | 0.216     | 4.10             | 29.2                         | 1.02                      | 102K    |
| AIRD-04-122                                | 1,200      | K         | 0.232     | 3.72             | 29.0                         | 0.91                      | 122K    |
| AIRD-04-152                                | 1,500      | K         | 0.324     | 3.33             | 29.0                         | 0.91                      | 152K    |
| AIRD-04-182                                | 1,800      | K         | 0.360     | 3.04             | 29.0                         | 0.91                      | 182K    |
| AIRD-04-222                                | 2,200      | K         | 0.494     | 2.75             | 27.9                         | 0.81                      | 222K    |
| AIRD-04-272                                | 2,700      | K         | 0.555     | 2.48             | 28.4                         | 0.81                      | 272K    |
| AIRD-04-332                                | 3,300      | K         | 0.773     | 2.25             | 27.9                         | 0.74                      | 332K    |

# RADIAL DRUM CORE POWER CHOKES

AIRD-04



RoHS/RoHS II Compliant



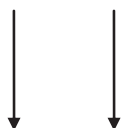
26.2 x  $\phi$ 38.1 mm

## Key Electrical Specifications (Cont.)

| Part Number<br>AIRD-04-<br>Inductance Code | Inductance | Tolerance | DCR (Max) | Rated<br>Current | Lead<br>Spacing<br>(Approx.) | Lead<br>Diameter<br>(Nom) | Marking |
|--------------------------------------------|------------|-----------|-----------|------------------|------------------------------|---------------------------|---------|
| Units                                      | $\mu$ H    | %         | $\Omega$  | A                | mm                           | mm                        |         |
| Symbol                                     | L          | K, M      | DCR       | I <sub>dc</sub>  | C                            | D                         |         |
| AIRD-04-392                                | 3,900      | K         | 0.845     | 2.06             | 27.9                         | 0.74                      | 392K    |
| AIRD-04-472                                | 4,700      | K         | 1.140     | 1.88             | 28.4                         | 0.74                      | 472K    |
| AIRD-04-562                                | 5,600      | K         | 1.60      | 1.72             | 27.7                         | 0.64                      | 562K    |
| AIRD-04-682                                | 6,800      | K         | 1.76      | 1.56             | 28.4                         | 0.64                      | 682K    |
| AIRD-04-822                                | 8,200      | K         | 1.95      | 1.42             | 27.7                         | 0.58                      | 822K    |
| AIRD-04-103                                | 10,000     | K         | 2.76      | 1.29             | 28.2                         | 0.58                      | 103K    |
| AIRD-04-123                                | 12,000     | K         | 3.04      | 1.17             | 27.4                         | 0.51                      | 123K    |
| AIRD-04-153                                | 15,000     | K         | 3.39      | 1.05             | 27.9                         | 0.51                      | 153K    |

## PART NUMBER IDENTIFICATION

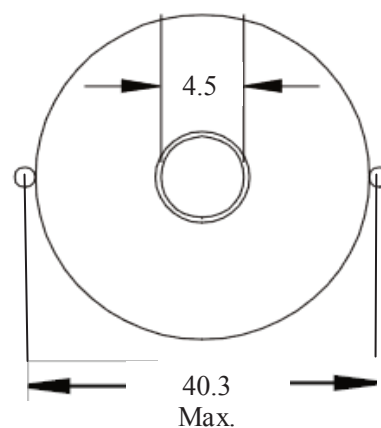
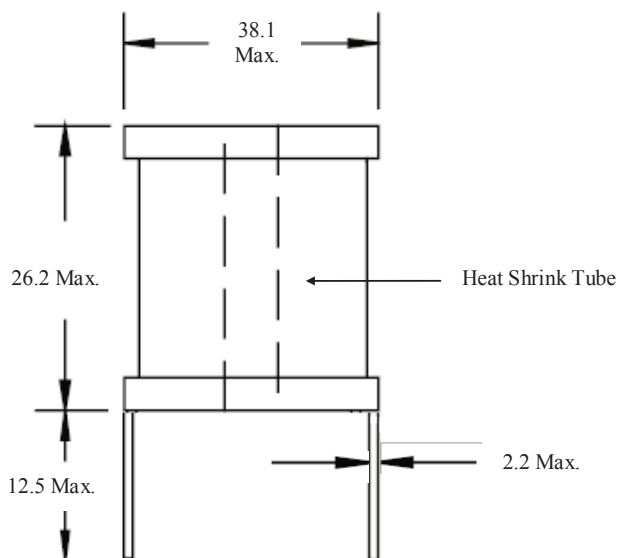
AIRD-04-  



| Inductance Code                              | Tolerance                          |
|----------------------------------------------|------------------------------------|
| Please refer to the<br>Electrical Spec Table | M: $\pm 20\%^*$<br>K: $\pm 10\%^*$ |

\*1.8 ~ 8.2 $\mu$ H: M only  
10 ~ 15,000 $\mu$ H: K only

## OUTLINE DIMENSION:



Dimension: mm

## Packing (36pcs / Box)

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