
# RADIAL LEADED POWER LINE CHOKES

# YCAIRD 07A SERIES

## FEATURES:

- High Saturation Material
- Polyolefin Shrink Tubing
- Low DC Resistance
- High Reliability Low cost

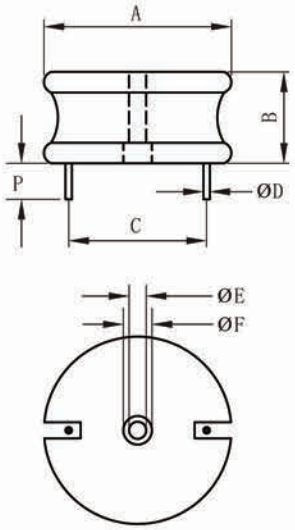
## OPTIONS:

- Packaging: Tape & Reel is Standard (Qty: 1000 pcs)
  Bulk packaging available for smaller quantities
- Tolerance:10% is standard, tighter tolerances available.

## COMMON APPLICATIONS:

- Switching Regulators
- RFI Suppression Filters
- Power Amplifiers
- Power Supplies
- SCR and Trica Controls
- Speaker Crossover Networks
- Automotive Systems
- Filters

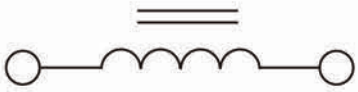
## PHYSICAL CHARACTERISTICS




**DIMENSIONS: inches/mm**

| A | B | P(min) | ØE | ØF |
|---|---|---|---|---|
| 2.40/60.96 | 0.74/18.80 | 0.50/12.70 | 0.25/6.35 | 0.425/10.795 |

## ELECTRONICAL SCHEMATIC



## TECHNICAL INFORMATION:

The AIRD-05,06,07,08,04A,06A,08A Series of Power Line Choke is available in367 standard values covering a wide rang of inductance and current. The use of FAAIRD04A-821Khigh saturation flux density material make these coils ideal for use in switching regulated power supply applications and wherever high current choke values in FAAIRD04A-102K a small physical size are needed.

- Inductance Testing: ,HP4284A,HP4285A or equivalent
- RDC:QuadTech 1880 Milliohmmeter FAAIRD04A-122K
- Rated Current L value drop10%typ.at IDC against its initial value
- Temperature rise 40℃Max Reference ambient temperature FAAIRD04A-152K
- Solderability: 75% of the lead wire shall be covered
- Soldering Methods: Wave,Reflow
- Operating Temperature:-25℃ to +85℃
- Storage Temperature: -55℃ to +125℃
- Terminal bending strength:24.5N Min
- Moisture resistance:△L/L≤±10%

**Note: All specifications subject to change without notice.**

## STANDARD SPECIFICATIONS

| Part Number | L (μH) @1KHz | DCR (Ω Max) | IDC (A Max) | Dim C (Inches/mm) Approx. | Dim ØD (Inches/mm) Nom. |
|---|---|---|---|---|---|
| YCAIRD07A-1R0M | 1.0 | 0.0018 | 44.0 | 1.52/38.61 | 0.120/3.048 |
| YCAIRD07A-2R2M | 2.2 | 0.0024 | 40.0 | 1.52/38.61 | 0.120/3.048 |
| YCAIRD07A-4R7M | 4.7 | 0.0030 | 36.0 | 1.60/40.64 | 0.109/2.769 |
| YCAIRD07A-8R2M | 8.2 | 0.0042 | 32.0 | 1.29/32.77 | 0.109/2.769 |
| YCAIRD07A-120K | 12.0 | 0.0053 | 30.0 | 1.64/41.66 | 0.109/2.769 |
| YCAIRD07A-150K | 15.0 | 0.0060 | 28.0 | 1.69/42.93 | 0.094/2.388 |
| YCAIRD07A-180K | 18.0 | 0.0067 | 27.0 | 1.77/44.96 | 0.094/2.388 |
| YCAIRD07A-220K | 22.0 | 0.0076 | 26.0 | 1.77/44.96 | 0.094/2.388 |
| YCAIRD07A-270K | 27.0 | 0.0085 | 24.0 | 1.77/44.96 | 0.094/2.388 |
| YCAIRD07A-330K | 33.0 | 0.0094 | 23.0 | 1.86/47.24 | 0.094/2.388 |
| YCAIRD07A-390K | 39.0 | 0.0130 | 20.0 | 1.86/47.24 | 0.084/2.134 |
| YCAIRD07A-470K | 47.0 | 0.0150 | 19.0 | 1.78/45.21 | 0.084/2.134 |
| YCAIRD07A-560K | 56.0 | 0.0160 | 18.0 | 1.88/47.75 | 0.084/2.134 |
| YCAIRD07A-680K | 68.0 | 0.0210 | 16.0 | 1.88/47.75 | 0.084/2.134 |
| YCAIRD07A-820K | 82.0 | 0.0240 | 14.0 | 1.82/46.23 | 0.084/2.134 |
| YCAIRD07A-101K | 100.0 | 0.0310 | 13.0 | 1.77/44.96 | 0.068/1.727 |
| YCAIRD07A-121K | 120.0 | 0.0350 | 12.0 | 1.87/47.50 | 0.068/1.727 |
| YCAIRD07A-151K | 150.0 | 0.0450 | 11.0 | 1.77/44.96 | 0.068/1.727 |
| YCAIRD07A-181K | 180.0 | 0.0550 | 9.5 | 1.83/46.48 | 0.054/1.372 |
| YCAIRD07A-221K | 220 | 0.076 | 8.0 | 1.75/44.45 | 0.054/1.372 |
| YCAIRD07A-271K | 270 | 0.084 | 8.0 | 1.80/45.72 | 0.054/1.372 |
| YCAIRD07A-331K | 330 | 0.093 | 7.5 | 1.80/45.72 | 0.048/1.219 |
| YCAIRD07A-391K | 390 | 0.127 | 6.5 | 1.80/45.72 | 0.048/1.219 |
| YCAIRD07A-471K | 470 | 0.138 | 6.0 | 1.80/45.72 | 0.048/1.219 |
| YCAIRD07A-561K | 560 | 0.192 | 5.0 | 1.80/45.75 | 0.043/1.092 |
| YCAIRD07A-681K | 680 | 0.210 | 5.0 | 1.76/44.70 | 0.043/1.092 |
| YCAIRD07A-821K | 820 | 0.287 | 4.0 | 1.69/42.93 | 0.039/0.991 |
| YCAIRD07A-102K | 1000 | 0.320 | 4.0 | 1.72/43.69 | 0.039/0.991 |
| YCAIRD07A-122K | 1200 | 0.349 | 3.8 | 1.76/44.70 | 0.039/0.991 |
| YCAIRD07A-152K | 1500 | 0.492 | 3.2 | 1.72/43.69 | 0.039/0.991 |
| YCAIRD07A-182K | 1800 | 0.544 | 3.0 | 1.75/44.45 | 0.031/0.787 |
| YCAIRD07A-222K | 2200 | 0.691 | 2.3 | 1.71/43.42 | 0.031/0.787 |
| YCAIRD07A-272K | 2700 | 0.764 | 2.2 | 1.77/44.96 | 0.031/0.787 |
| YCAIRD07A-332K | 3300 | 1.027 | 1.98 | 1.71/43.43 | 0.028/0.711 |
| YCAIRD07A-392K | 3900 | 1.113 | 1.90 | 1.70/43.18 | 0.028/0.711 |
| YCAIRD07A-472K | 4700 | 1.565 | 1.65 | 1.72/43.69 | 0.025/0.635 |
| YCAIRD07A-562K | 5600 | 1.700 | 1.58 | 1.72/43.69 | 0.025/0.635 |
| YCAIRD07A-682K | 6800 | 1.854 | 1.50 | 1.46/37.08 | 0.025/0.635 |

Note: K=±10%,M=±20%