



RADIAL LEADED POWER LINE CHOKES

YCAIRD 04A SERIES

FEATURES:

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

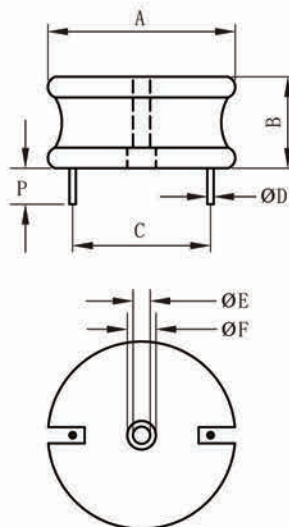
OPTIONS:

- 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 Triac Controls
- Speaker Crossover Networks
- Automotive Systems
- Filters

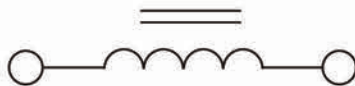
PHYSICAL CHARACTERISTICS



DIMENSIONS: inches/mm

A	B	P(min)	ØE	ØF
1.60/40.64	0.68/17.27	0.50/12.70	0.25/6.35	0.29/7.366

ELECTRONICAL SCHEMATIC



TECHNICAL INFORMATION:

The AIRD-05, 06, 07, 08, 04A, 06A, 08A Series of Power Line Choke is available in 367 standard values covering a wide range of inductance and current. The use of FAIRD04A-821K high saturation flux density material make these coils ideal for use in switching regulated power supply applications and wherever high current choke values in FAIRD04A-102K a small physical size are needed.

- Inductance Testing: HP4284A, HP4285A or equivalent
- DC: Quadtech 1880 MilliOhmmeter FAIRD04A-122K
- Rated Current: I value drop 10% typ. at IDC against its initial value
- Temperature rise 40°C Max Reference ambient temperature: FAIRD04A-152K
- Solderability: 75% of the lead wire shall be covered
- Soldering Methods: Wave, Reflow
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -55°C to +125°C
- Terminal bending strength: 24.5N Min
- Moisture resistance: $\Delta L/L \leq \pm 10\%$

Note: All specifications subject to change without notice.

STANDARD SPECIFICATIONS

Part Number	L (μ H) @1KHz	DCR (Ω Max)	IDC (A Max)	Dim C (Inches/mm) Approx.	Dim ØD (Inches/mm) Nom.
YCAIRD04A-2R2M	2.2	0.0028	28.2	1.10/27.94	0.094/2.3876
YCAIRD04A-3R9M	3.9	0.0037	27.2	1.10/27.94	0.094/2.3876
YCAIRD04A-4R7M	4.7	0.0040	25.7	1.10/27.94	0.094/2.3876
YCAIRD04A-6R8M	6.8	0.0048	23.7	1.10/27.94	0.094/2.3876
YCAIRD04A-8R2M	8.2	0.0055	22.0	1.16/29.46	0.094/2.3876
YCAIRD04A-120K	12.0	0.0067	20.7	1.16/29.46	0.084/2.1336
YCAIRD04A-150K	15.0	0.0070	20.5	1.16/29.46	0.084/2.1336
YCAIRD04A-180K	18.0	0.0094	20.5	1.16/29.46	0.084/2.1336
YCAIRD04A-220K	22.0	0.0103	20.4	1.18/29.97	0.084/2.1336
YCAIRD04A-270K	27.0	0.0121	18.9	1.18/29.97	0.084/2.1336
YCAIRD04A-330K	33.0	0.0163	14.0	1.17/29.72	0.068/1.7272
YCAIRD04A-390K	39.0	0.0173	13.6	1.17/29.72	0.068/1.7272
YCAIRD04A-470K	47.0	0.0196	12.8	1.17/29.72	0.068/1.7272
YCAIRD04A-560K	56.0	0.0208	12.4	1.18/29.97	0.068/1.7272
YCAIRD04A-680K	68.0	0.0292	10.7	1.17/29.72	0.060/1.5240
YCAIRD04A-820K	82.0	0.0319	10.2	1.18/29.97	0.060/1.5240
YCAIRD04A-101K	100.0	0.0348	9.8	1.18/29.97	0.060/1.5240
YCAIRD04A-121K	120.0	0.0480	8.3	1.18/29.97	0.048/1.2192
YCAIRD04A-151K	150	0.0530	7.90	1.18/29.97	0.048/1.219
YCAIRD04A-181K	180	0.0743	6.40	1.18/29.97	0.048/1.219
YCAIRD04A-221K	220	0.0833	6.00	1.19/30.23	0.043/1.092
YCAIRD04A-271K	270	0.0940	5.70	1.19/30.23	0.043/1.092
YCAIRD04A-331K	330	0.1270	4.80	1.12/28.48	0.039/0.991
YCAIRD04A-391K	390	0.1380	4.60	1.12/28.48	0.039/0.991
YCAIRD04A-471K	470	0.1840	4.10	1.12/28.48	0.039/0.991
YCAIRD04A-561K	560	0.2030	3.90	1.12/28.48	0.033/0.838
YCAIRD04A-681K	680	0.2790	3.20	1.12/28.48	0.033/0.838
YCAIRD04A-821K	820	0.3140	3.10	1.12/28.48	0.033/0.838
YCAIRD04A-102K	1000	0.3480	2.90	1.14/28.96	0.031/0.787
YCAIRD04A-122K	1200	0.4940	2.40	1.15/29.21	0.031/0.787
YCAIRD04A-152K	1500	0.5480	2.30	1.14/28.96	0.031/0.787
YCAIRD04A-182K	1800	0.7320	1.95	1.14/28.96	0.028/0.711
YCAIRD04A-222K	2200	0.8090	1.80	1.12/28.45	0.028/0.711
YCAIRD04A-272K	2700	1.1200	1.53	1.13/28.70	0.025/0.635
YCAIRD04A-332K	3300	1.8200	1.46	1.13/28.70	0.025/0.635
YCAIRD04A-392K	3900	1.3800	1.40	1.13/28.70	0.025/0.635

Note: K = $\pm 10\%$, M = $\pm 20\%$