



# RADIAL LEADED POWER LINE CHOKES

## AIRD 04A SERIES

### FEATURES:

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

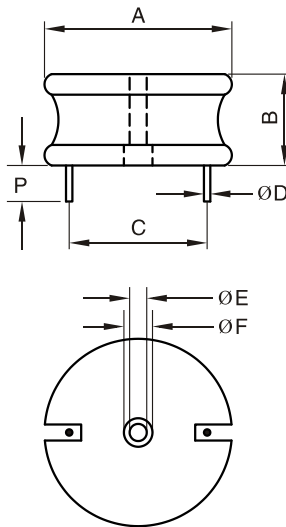
### OPTIONS:

- 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 high saturation flux density material make these coils ideal for use in switching regulated power supply applications and wherever high current choke values in a small physical size are needed.

- Inductance Testing: HP4284A, HP4285A or equivalent
- RDC: QuadTech 1880 Milliohm meter
- Rated Current L value drop 10% typ. at  $I_{DC}$  against its initial value
- Temperature rise 40°C Max Reference ambient temperature
- 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 ( $\mu$ H) @1KHz	DCR ( $\Omega$ Max)	IDC (A Max)	Dim C (Inches/mm) Approx.	Dim ØD (Inches/mm) Nom.
AIRD04A-2R2M	2.2	0.0028	28.2	1.10/27.94	0.094/2.3876
AIRD04A-3R9M	3.9	0.0037	27.2	1.10/27.94	0.094/2.3876
AIRD04A-4R7M	4.7	0.0040	25.7	1.10/27.94	0.094/2.3876
AIRD04A-6R8M	6.8	0.0048	23.7	1.10/27.94	0.094/2.3876
AIRD04A-8R2M	8.2	0.0055	22.0	1.16/29.46	0.094/2.3876
AIRD04A-120K	12.0	0.0067	20.7	1.16/29.46	0.084/2.1336
AIRD04A-150K	15.0	0.0070	20.5	1.16/29.46	0.084/2.1336
AIRD04A-180K	18.0	0.0094	20.5	1.16/29.46	0.084/2.1336
AIRD04A-220K	22.0	0.0103	20.4	1.18/29.97	0.084/2.1336
AIRD04A-270K	27.0	0.0121	18.9	1.18/29.97	0.084/2.1336
AIRD04A-330K	33.0	0.0163	14.0	1.17/29.72	0.068/1.7272
AIRD04A-390K	39.0	0.0173	13.6	1.17/29.72	0.068/1.7272
AIRD04A-470K	47.0	0.0196	12.8	1.17/29.72	0.068/1.7272
AIRD04A-560K	56.0	0.0208	12.4	1.18/29.97	0.068/1.7272
AIRD04A-680K	68.0	0.0292	10.7	1.17/29.72	0.060/1.5240
AIRD04A-820K	82.0	0.0319	10.2	1.18/29.97	0.060/1.5240
AIRD04A-101K	100.0	0.0348	9.8	1.18/29.97	0.060/1.5240
AIRD04A-121K	120.0	0.0480	8.3	1.18/29.97	0.048/1.2192
AIRD04A-151K	150	0.0530	7.90	1.18/29.97	0.048/1.219
AIRD04A-181K	180	0.0743	6.40	1.18/29.97	0.048/1.219
AIRD04A-221K	220	0.0833	6.00	1.19/30.23	0.043/1.092
AIRD04A-271K	270	0.0940	5.70	1.19/30.23	0.043/1.092
AIRD04A-331K	330	0.1270	4.80	1.12/28.48	0.039/0.991
AIRD04A-391K	390	0.1380	4.60	1.12/28.48	0.039/0.991
AIRD04A-471K	470	0.1840	4.10	1.12/28.48	0.039/0.991
AIRD04A-561K	560	0.2030	3.90	1.12/28.48	0.033/0.838
AIRD04A-681K	680	0.2790	3.20	1.12/28.48	0.033/0.838
AIRD04A-821K	820	0.3140	3.10	1.12/28.48	0.033/0.838
AIRD04A-102K	1000	0.3480	2.90	1.14/28.96	0.031/0.787
AIRD04A-122K	1200	0.4940	2.40	1.15/29.21	0.031/0.787
AIRD04A-152K	1500	0.5480	2.30	1.14/28.96	0.031/0.787
AIRD04A-182K	1800	0.7320	1.95	1.14/28.96	0.028/0.711
AIRD04A-222K	2200	0.8090	1.80	1.12/28.45	0.028/0.711
AIRD04A-272K	2700	1.1200	1.53	1.13/28.70	0.025/0.635
AIRD04A-332K	3300	1.8200	1.46	1.13/28.70	0.025/0.635
AIRD04A-392K	3900	1.3800	1.40	1.13/28.70	0.025/0.635

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