

# RADIAL LEADED POWER LINE CHOKES

## AIRD 08 SERIES



### FEATURES:

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

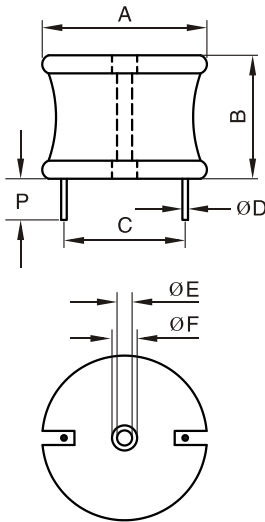
### OPTIONS:

- 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
2.40/60.96	2.50/63.50	0.50/12.70	0.10/2.54	0.25/6.35

## ELECTRONICAL SCHEMATIC



## TECHNICAL INFORMATION:

The AIRD-05,06,07,08 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 Milliohmmeter
- 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.
AIRD08-5R6M	5.6	0.0012	55.0	*	0.225/5.7150
AIRD08-6R8M	6.8	0.0013	55.0	*	0.225/5.7150
AIRD08-8R2M	8.2	0.0015	55.0	*	0.225/5.7150
AIRD08-100K	10.0	0.0017	55.0	*	0.225/5.7150
AIRD08-120K	12.0	0.0020	55.0	*	0.225/5.7150
AIRD08-150K	15.0	0.0021	55.0	*	0.225/5.7150
AIRD08-180K	18.0	0.0023	55.0	*	0.225/5.7150
AIRD08-220K	22.0	0.0025	55.0	*	0.225/5.7150
AIRD08-270K	27.0	0.0026	55.0	*	0.225/5.7150
AIRD08-330K	33.0	0.0029	55.0	*	0.225/5.7150
AIRD08-390K	39.0	0.0033	55.0	*	0.225/5.7150
AIRD08-470K	47.0	0.0035	55.0	*	0.225/5.7150
AIRD08-560K	56.0	0.0039	55.0	*	0.225/5.7150
AIRD08-680K	68.0	0.0043	50.0	*	0.225/5.7150
AIRD08-820K	82.0	0.0048	45.0	*	0.210/5.3340
AIRD08-101K	100.0	0.0052	40.0	*	0.210/5.3340
AIRD08-121K	120.0	0.0071	39.0	*	0.210/5.3340
AIRD08-151K	150.0	0.0079	38.0	*	0.210/5.3340
AIRD08-181K	180.0	0.0087	37.0	*	0.210/5.3340
AIRD08-221K	220.0	0.0120	33.0	*	0.190/4.8260
AIRD08-271K	270.0	0.0140	30.0	*	0.190/4.8260
AIRD08-331K	330.0	0.0180	27.0	1.80/45.72	0.120/3.0480
AIRD08-390K	390.0	0.0200	25.0	1.70/43.18	0.120/3.0480
AIRD08-471K	470.0	0.0280	21.0	1.70/43.18	0.105/2.6670
AIRD08-561K	560.0	0.0310	20.0	1.45/44.45	0.105/2.6670
AIRD08-681K	680.0	0.034	19.0	1.80/45.72	0.105/2.667
AIRD08-820K	820.0	0.047	16.0	1.80/45.72	0.049/2.3876
AIRD08-102K	1000.0	0.052	15.5	1.75/44.45	0.049/2.3876
AIRD08-122K	1200.0	0.057	15	1.78/45.212	0.049/2.3876
AIRD08-152K	1500.0	0.080	13.0	1.80/45.72	0.084/2.1336
AIRD08-182K	1800.0	0.088	12.0	1.70/43.18	0.084/2.1336
AIRD08-222K	2200.0	0.122	10.0	1.70/43.18	0.075/1.905
AIRD08-272K	2700.0	0.135	10.0	1.75/44.45	0.075/1.905
AIRD08-332K	3300.0	0.188	8.0	1.80/45.72	0.068/1.7272
AIRD08-392K	3900.0	0.205	8.0	1.75/44.45	0.068/1.7272
AIRD08-472K	4700.0	0.283	6.7	1.78/45.212	0.060/1.5240
AIRD08-562K	5600.0	0.309	6.4	1.80/45.72	0.060/1.5240
AIRD08-682K	6800.0	0.431	5.4	1.70/43.18	0.054/1.3716
AIRD08-822K	8200.0	0.472	5.2	1.75/44.45	0.054/1.3716
AIRD08-103K	10000.0	0.521	5.0	1.80/45.72	0.054/1.3716
AIRD08-123K	12000.0	0.717	4.2	1.80/45.72	0.048/1.2192
AIRD08-153K	15000.0	0.803	4.0	1.75/44.45	0.048/1.2192
AIRD08-183K	18000.0	1.111	3.4	1.78/45.212	0.043/1.0922
AIRD08-223K	22000.0	1.228	3.2	1.80/45.72	0.043/1.0922
AIRD08-273K	27000.0	1.716	2.7	1.75/44.45	0.039/0.9906
AIRD08-333K	33000.0	1.896	2.6	1.80/45.72	0.039/0.9906
AIRD08-393K	39000.0	2.590	2.3	1.75/44.45	0.035/0.8890
AIRD08-473K	47000.0	2.840	2.2	1.78/45.212	0.035/0.8890
AIRD08-563K	56000.0	3.104	2.1	1.80/45.72	0.035/0.8890
AIRD08-683K	68000.0	4.331	1.7	1.85/46.99	0.031/0.7874
AIRD08-823K	82000.0	4.756	1.6	1.90/48.26	0.031/0.7874
AIRD08-104K	100000.0	6.652	1.4	1.95/49.53	0.028/0.7112

\* Inductors wound with 2 standards of wire. Consult Engineering for dimension. K= ± 10%, M= ± 20%