

# RADIAL LEADED POWER LINE CHOKES

## AIRD 06 SERIES



### FEATURES:

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

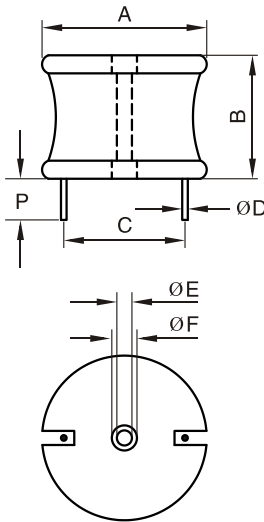
### OPTIONS:

- 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
2.00/50.80	1.50/38.10	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 makes 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.
AIRD06-4R7M	4.7	0.002	35.0	1.40/35.56	0.105/2.667
AIRD06-5R6M	5.6	0.002	35.0	1.40/35.56	0.105/2.667
AIRD06-6R8M	6.8	0.003	35.0	1.40/35.56	0.105/2.667
AIRD06-8R2M	8.2	0.003	35.0	1.40/35.56	0.105/2.667
AIRD06-100K	10.0	0.003	35.0	1.48/37.592	0.105/2.667
AIRD06-120K	12.0	0.004	35.0	1.48/37.592	0.105/2.667
AIRD06-150K	15.0	0.004	35.0	1.48/37.592	0.105/2.667
AIRD06-180K	18.0	0.005	35.0	1.48/37.592	0.105/2.667
AIRD06-220K	22.0	0.006	35.0	1.48/37.592	0.105/2.667
AIRD06-270K	27.0	0.006	35.0	1.48/37.592	0.105/2.667
AIRD06-330K	33.0	0.006	35.0	1.48/37.592	0.105/2.667
AIRD06-390K	39.0	0.008	35.0	1.48/37.592	0.105/2.667
AIRD06-470K	47.0	0.008	35.0	1.48/37.592	0.105/2.667
AIRD06-560K	56.0	0.009	35.0	1.48/37.592	0.105/2.667
AIRD06-680K	68.0	0.009	35.0	1.48/37.592	0.105/2.667
AIRD06-820K	82.0	0.010	35.0	1.48/37.592	0.105/2.667
AIRD06-101K	100.0	0.014	27.0	1.53/38.862	0.094/2.3876
AIRD06-121K	120.0	0.015	27.0	1.53/38.862	0.094/2.3876
AIRD06-151K	150.0	0.023	21.0	1.49/37.846	0.084/2.1336
AIRD06-181K	180.0	0.025	21.0	1.49/37.846	0.084/2.1336
AIRD06-221K	220.0	0.028	21.0	1.49/37.846	0.084/2.1336
AIRD06-271K	270.0	0.030	21.0	1.49/37.846	0.084/2.1336
AIRD06-331K	330.0	0.040	17.0	1.31/33.274	0.075/1.905
AIRD06-390K	390.0	0.055	13.5	1.31/33.274	0.068/1.7272
AIRD06-471K	470.0	0.061	13.5	1.31/33.274	0.068/1.7272
AIRD06-561K	560.0	0.068	13.5	1.40/35.560	0.068/1.7272
AIRD06-681K	680.0	0.094	11.4	1.42/36.068	0.060/1.524
AIRD06-820K	820.0	0.104	11.4	1.42/36.068	0.060/1.524
AIRD06-102K	1000.0	0.143	9.0	1.36/34.544	0.054/1.3716
AIRD06-122K	1200.0	0.156	9.0	1.36/34.544	0.054/1.3716
AIRD06-152K	1500.0	0.219	7.2	1.31/33.274	0.048/1.2192
AIRD06-182K	1800.0	0.241	7.2	1.31/33.274	0.048/1.2192
AIRD06-222K	2200.0	0.270	7.2	1.40/35.560	0.048/1.2192
AIRD06-272K	2700.0	0.364	5.5	1.36/34.544	0.043/1.0922
AIRD06-332K	3300.0	0.498	4.5	1.24/31.496	0.039/0.9906
AIRD06-392K	3900.0	0.548	4.5	1.32/33.528	0.039/0.9906
AIRD06-472K	4700.0	0.608	4.5	1.32/33.528	0.039/0.9906
AIRD06-562K	5600.0	0.671	4.5	1.36/34.544	0.039/0.9906
AIRD06-682K	6800.0	0.750	4.5	1.40/35.560	0.039/0.9906
AIRD06-822K	8200.0	1.030	4.0	1.45/36.830	0.035/0.8890
AIRD06-103K	10000.0	1.160	4.0	1.45/36.830	0.035/0.8890
AIRD06-123K	12000.0	1.540	2.8	1.40/35.560	0.031/0.7874
AIRD06-153K	15000.0	1.750	2.8	1.40/35.560	0.031/0.7112
AIRD06-183K	18000.0	1.940	2.8	1.45/36.830	0.028/0.7112
AIRD06-223K	22000.0	2.740	2.0	1.37/34.798	0.028/0.7112
AIRD06-273K	27000.0	3.710	1.7	1.37/34.798	0.025/0.6350
AIRD06-333K	33000.0	4.160	1.7	1.37/34.798	0.025/0.6350
AIRD06-393K	39000.0	5.560	1.4	1.35/34.290	0.025/0.6350
AIRD06-473K	47000.0	6.190	1.4	1.35/34.290	0.022/0.5588

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