

RADIAL LEADED POWER LINE CHOKES

AIRD 06A SERIES



FEATURES:

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

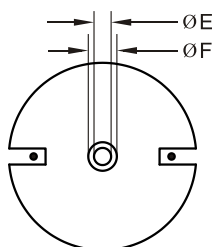
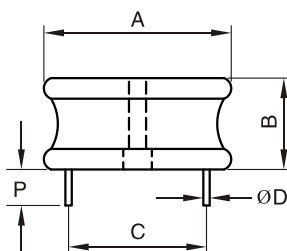
OPTIONS:

- 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	0.74/18.80	0.50/12.70	0.25/6.35	0.375/9.525

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 (μH) @1KHz	DCR (Ω Max)	IDC (A Max)	Dim C (Inches/mm) Approx.	Dim ØD (Inches/mm) Nom.
AIRD06A-2R2M	2.2	0.0021	34.7	1.21/30.73	0.105/2.667
AIRD06A-3R3M	3.3	0.0026	33.7	1.29/32.77	0.105/2.667
AIRD06A-5R6M	5.6	0.0036	31.0	1.29/32.77	0.105/2.667
AIRD06A-8R2M	8.2	0.0041	30.4	1.29/32.77	0.105/2.667
AIRD06A-120K	12.0	0.0047	29.6	1.37/34.80	0.105/2.667
AIRD06A-150K	15.0	0.0055	27.6	1.39/35.31	0.094/2.388
AIRD06A-180K	18.0	0.0062	25.9	1.37/34.80	0.094/2.388
AIRD06A-220K	22.0	0.0068	24.5	1.37/34.80	0.094/2.388
AIRD06A-270K	27.0	0.0077	23.3	1.37/34.80	0.094/2.388
AIRD06A-330K	33.0	0.0084	22.3	1.37/34.80	0.094/2.388
AIRD06A-390K	39.0	0.0112	18.4	1.17/29.72	0.084/2.134
AIRD06A-470K	47.0	0.0132	18.0	1.17/29.72	0.084/2.134
AIRD06A-560K	56.0	0.0142	17.5	1.44/36.58	0.075/1.915
AIRD06A-680K	68.0	0.0180	15.6	1.44/36.58	0.075/1.915
AIRD06A-820K	82.0	0.0202	14.8	1.43/36.32	0.075/1.915
AIRD06A-101K	100.0	0.0223	14.0	1.43/36.32	0.075/1.915
AIRD06A-121K	120.0	0.0324	11.7	1.44/36.58	0.060/1.524
AIRD06A-151K	150.0	0.0368	11.0	1.44/36.58	0.060/1.524
AIRD06A-181K	180.0	0.0468	9.5	1.44/36.58	0.054/1.372
AIRD06A-221K	220.0	0.0520	9.0	1.44/36.58	0.054/1.372
AIRD06A-271K	270	0.0587	8.50	1.46/37.08	0.054/1.372
AIRD06A-331K	330	0.0780	7.80	1.46/37.08	0.054/1.372
AIRD06A-391K	390	0.0844	7.50	1.45/36.83	0.048/1.219
AIRD06A-471K	470	0.1200	6.50	1.43/36.32	0.048/1.219
AIRD06A-561K	560	0.1310	6.20	1.44/36.58	0.048/1.219
AIRD06A-681K	680	0.1420	6.00	1.46/37.08	0.048/1.219
AIRD06A-821K	820	0.1870	4.90	1.45/36.83	0.043/1.092
AIRD06A-102K	1000	0.2060	4.70	1.45/36.83	0.043/1.092
AIRD06A-122K	1200	0.3010	3.85	1.45/36.83	0.035/0.889
AIRD06A-152K	1500	0.3530	3.74	1.46/37.08	0.035/0.889
AIRD06A-182K	1800	0.3830	3.43	1.46/37.08	0.035/0.889
AIRD06A-222K	2200	0.5480	2.90	1.45/36.83	0.031/0.787
AIRD06A-272K	2700	0.7930	2.28	1.46/37.08	0.031/0.787
AIRD06A-332K	3300	0.8740	2.15	1.45/36.83	0.031/0.787
AIRD06A-392K	3900	0.9480	2.08	1.46/37.08	0.031/0.787
AIRD06A-472K	4700	1.2400	2.00	1.46/37.08	0.028/0.711
AIRD06A-562K	5600	1.4000	1.88	1.46/37.08	0.028/0.711
AIRD06A-682K	6800	1.8400	1.80	1.46/37.08	0.028/0.711
AIRD06A-822K	8200	2.3800	1.50	1.47/37.34	0.028/0.711
AIRD06A-103K	10000	2.7500	1.40	1.47/37.34	0.028/0.711

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