



RADIAL LEADED POWER LINE CHOKES

AIRD 07A SERIES

FEATURES:

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

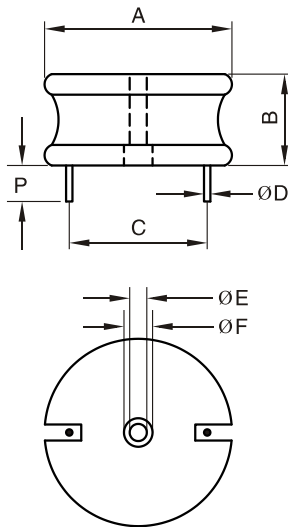
OPTIONS:

- 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	0.74/18.80	0.50/12.70	0.25/6.35	0.425/10.795

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 Milliohmeter
- 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 (μ H) @1KHz	DCR (Ω Max)	IDC (A Max)	Dim C (Inches/mm) Approx.	Dim Ø D (Inches/mm) Nom.
AIRD07A-1R0M	1.0	0.0018	44.0	1.52/38.61	0.120/3.048
AIRD07A-2R2M	2.2	0.0024	40.0	1.52/38.61	0.120/3.048
AIRD07A-4R7M	4.7	0.0030	36.0	1.60/40.64	0.109/2.769
AIRD07A-8R2M	8.2	0.0042	32.0	1.29/32.77	0.109/2.769
AIRD07A-120K	12.0	0.0053	30.0	1.64/41.66	0.109/2.769
AIRD07A-150K	15.0	0.0060	28.0	1.69/42.93	0.094/2.388
AIRD07A-180K	18.0	0.0067	27.0	1.77/44.96	0.094/2.388
AIRD07A-220K	22.0	0.0076	26.0	1.77/44.96	0.094/2.388
AIRD07A-270K	27.0	0.0085	24.0	1.77/44.96	0.094/2.388
AIRD07A-330K	33.0	0.0094	23.0	1.86/47.24	0.094/2.388
AIRD07A-390K	39.0	0.0130	20.0	1.86/47.24	0.084/2.134
AIRD07A-470K	47.0	0.0150	19.0	1.78/45.21	0.084/2.134
AIRD07A-560K	56.0	0.0160	18.0	1.88/47.75	0.084/2.134
AIRD07A-680K	68.0	0.0210	16.0	1.88/47.75	0.084/2.134
AIRD07A-820K	82.0	0.0240	14.0	1.82/46.23	0.084/2.134
AIRD07A-101K	100.0	0.0310	13.0	1.77/44.96	0.068/1.727
AIRD07A-121K	120.0	0.0350	12.0	1.87/47.50	0.068/1.727
AIRD07A-151K	150.0	0.0450	11.0	1.77/44.96	0.068/1.727
AIRD07A-181K	180.0	0.0550	9.5	1.83/46.48	0.054/1.372
AIRD07A-221K	220	0.076	8.0	1.75/44.45	0.054/1.372
AIRD07A-271K	270	0.084	8.0	1.80/45.72	0.054/1.372
AIRD07A-331K	330	0.093	7.5	1.80/45.72	0.048/1.219
AIRD07A-391K	390	0.127	6.5	1.80/45.72	0.048/1.219
AIRD07A-471K	470	0.138	6.0	1.80/45.72	0.048/1.219
AIRD07A-561K	560	0.192	5.0	1.80/45.75	0.043/1.092
AIRD07A-681K	680	0.210	5.0	1.76/44.70	0.043/1.092
AIRD07A-821K	820	0.287	4.0	1.69/42.93	0.039/0.991
AIRD07A-102K	1000	0.320	4.0	1.72/43.69	0.039/0.991
AIRD07A-122K	1200	0.349	3.8	1.76/44.70	0.039/0.991
AIRD07A-152K	1500	0.492	3.2	1.72/43.69	0.039/0.991
AIRD07A-182K	1800	0.544	3.0	1.75/44.45	0.031/0.787
AIRD07A-222K	2200	0.691	2.3	1.71/43.42	0.031/0.787
AIRD07A-272K	2700	0.764	2.2	1.77/44.96	0.031/0.787
AIRD07A-332K	3300	1.027	1.98	1.71/43.43	0.028/0.711
AIRD07A-392K	3900	1.113	1.90	1.70/43.18	0.028/0.711
AIRD07A-472K	4700	1.565	1.65	1.72/43.69	0.025/0.635
AIRD07A-562K	5600	1.700	1.58	1.72/43.69	0.025/0.635
AIRD07A-682K	6800	1.854	1.50	1.46/37.08	0.025/0.635

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