



RADIAL LEADED POWER LINE CHOKES

YCAIRD 05 SERIES

FEATURES:

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

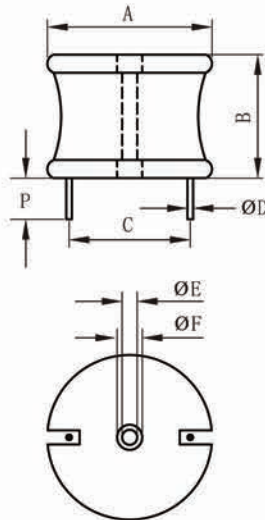
OPTIONS:

- 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

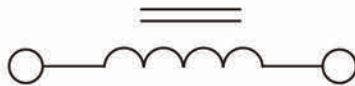
PHYSICAL CHARACTERISTICS



DIMENSIONS: inches/mm

A	B	P(min)	ØE	ØF
1.60/40.64	1.45/36.83	0.50/12.7	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 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 IDC 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: $\Delta L/L \leq 10\%$

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 ØD (Inches/mm) Nom.
YCAIRD05-1R8M	1.8	0.002	35.0	1.11/28.194	0.105/2.667
YCAIRD05-2R2M	2.2	0.002	35.0	1.11/28.194	0.105/2.667
YCAIRD05-2R7M	2.7	0.002	35.0	1.11/28.194	0.105/2.667
YCAIRD05-3R3M	3.3	0.002	35.0	1.11/28.194	0.105/2.667
YCAIRD05-3R9M	3.9	0.003	35.0	1.11/28.194	0.105/2.667
YCAIRD05-4R7M	4.7	0.003	35.0	1.11/28.194	0.105/2.667
YCAIRD05-5R6M	5.6	0.003	35.0	1.11/28.194	0.105/2.667
YCAIRD05-6R8M	6.8	0.003	35.0	1.11/28.194	0.105/2.667
YCAIRD05-8R2M	8.2	0.003	35.0	1.11/28.194	0.105/2.667
YCAIRD05-100K	10.0	0.004	35.0	1.11/28.194	0.105/2.667
YCAIRD05-120K	12.0	0.004	35.0	1.16/29.464	0.105/2.667
YCAIRD05-150K	15.0	0.005	35.0	1.16/29.464	0.105/2.667
YCAIRD05-180K	18.0	0.007	27.0	1.16/29.464	0.094/2.3876
YCAIRD05-220K	22.0	0.007	27.0	1.16/29.464	0.094/2.3876
YCAIRD05-270K	27.0	0.008	27.0	1.16/29.464	0.094/2.3876
YCAIRD05-330K	33.0	0.009	27.0	1.16/29.464	0.094/2.3876
YCAIRD05-390K	39.0	0.010	27.0	1.16/29.464	0.094/2.3876
YCAIRD05-470K	47.0	0.011	27.0	1.16/29.464	0.094/2.3876
YCAIRD05-560K	56.0	0.013	21.0	1.16/29.464	0.094/2.3876
YCAIRD05-680K	68.0	0.015	21.0	1.25/31.750	0.84/2.1336
YCAIRD05-820K	82.0	0.017	21.0	1.28/32.512	0.84/2.1336
YCAIRD05-101K	100.0	0.018	21.0	1.25/31.750	0.84/2.1336
YCAIRD05-121K	120.0	0.022	17.0	1.16/29.464	0.075/1.9152
YCAIRD05-151K	150.0	0.025	17.0	1.16/29.464	0.075/1.9152
YCAIRD05-181K	180.0	0.035	13.5	1.10/27.94	0.068/1.7272
YCAIRD05-221K	220.0	0.040	13.5	1.10/27.94	0.068/1.7272
YCAIRD05-271K	270.0	0.044	13.5	1.10/27.94	0.068/1.7272
YCAIRD05-331K	330.0	0.049	13.5	1.11/28.194	0.068/1.7272
YCAIRD05-390K	390.0	0.070	11.4	1.15/29.21	0.060/1.524
YCAIRD05-471K	470.0	0.078	11.4	1.07/27.178	0.060/1.524
YCAIRD05-561K	560.0	0.105	9.0	1.07/27.178	0.054/1.3716
YCAIRD05-681K	680.0	0.115	9.0	1.07/27.178	0.054/1.3716
YCAIRD05-820K	820.0	0.127	9.0	1.12/28.448	0.054/1.3716
YCAIRD05-102K	1000.0	0.176	7.2	1.12/28.448	0.048/1.2192
YCAIRD05-122K	1200.0	0.195	7.2	1.12/28.448	0.048/1.2192
YCAIRD05-152K	1500.0	0.274	5.5	1.12/28.448	0.043/1.0922
YCAIRD05-182K	1800.0	0.302	5.5	1.13/28.702	0.043/1.0922
YCAIRD05-222K	2200.0	0.338	5.5	1.16/29.464	0.043/1.0922
YCAIRD05-272K	2700.0	0.459	4.5	1.02/25.908	0.039/0.9906
YCAIRD05-332K	3300.0	0.642	4.0	1.02/25.908	0.035/0.8890
YCAIRD05-392K	3900.0	0.699	4.0	1.14/28.956	0.035/0.8890
YCAIRD05-472K	4700.0	0.775	4.0	1.14/28.956	0.035/0.8890
YCAIRD05-562K	5600.0	0.843	4.0	1.14/28.956	0.035/0.8890
YCAIRD05-682K	6800.0	1.15	2.8	1.06/26.924	0.031/0.7874
YCAIRD05-822K	8200.0	1.26	2.8	1.16/29.464	0.031/0.7874
YCAIRD05-103K	10000.0	1.74	2.0	1.13/28.702	0.028/0.7112
YCAIRD05-123K	12000.0	1.92	2.0	1.13/28.702	0.028/0.7112
YCAIRD05-153K	15000.0	2.17	2.0	1.13/28.702	0.028/0.7112

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