

# Power Line Inductor

AIRD-06



RoHS  
Compliant



21.3 x  $\phi$ 21.1 mm

## FEATURES:

- Ferrite core with UL tube
- Wire wound construction
- High current, low DCR

## APPLICATIONS:

- Electronic Appliance
- Power Supplies
- TRIAC/SCR Control Circuits

## STANDARD SPECIFICATIONS

Operating Temperature: -25°C ~ +85°C

Storage Temperature: -25°C ~ +125°C

Part Number	Inductance	Tolerance	DCR (Max)	Saturation Current (Max)	Temperature Rise Current (Max)	Hipot (winding to core)	Dimension "E"
Units	$\mu$ H	%	$\Omega$	A	A	Vdc for 1min	in/mm
Symbol	L	K, M	DCR	Isat	Irms	Hipot	E
AIRD-06-1R0	1.0	M	0.003	108	11.4	500	0.620/15.7
AIRD-06-1R2	1.2	M	0.003	108	11.4	500	0.620/15.7
AIRD-06-1R5	1.5	M	0.003	83	11.4	500	0.620/15.7
AIRD-06-1R8	1.8	M	0.003	68	11.4	500	0.620/15.7
AIRD-06-2R2	2.2	M	0.004	68	11.4	500	0.620/15.7
AIRD-06-2R7	2.7	M	0.005	58	11.4	500	0.620/15.7
AIRD-06-3R3	3.3	M	0.005	58	11.4	500	0.620/15.7
AIRD-06-3R9	3.9	M	0.005	50	11.4	500	0.620/15.7
AIRD-06-4R7	4.7	M	0.005	50	11.4	500	0.620/15.7
AIRD-06-5R6	5.6	M	0.006	44	11.4	500	0.620/15.7
AIRD-06-6R8	6.8	M	0.007	39	11.4	500	0.620/15.7
AIRD-06-8R2	8.2	M	0.007	36	11.4	500	0.620/15.7
AIRD-06-100	10	K	0.009	30	11.4	500	0.620/15.7
AIRD-06-120	12	K	0.009	27	11.4	500	0.620/15.7
AIRD-06-150	15	K	0.013	25	9.0	500	0.625/15.9
AIRD-06-180	18	K	0.018	22	7.2	500	0.630/16.0
AIRD-06-220	22	K	0.019	21	7.2	500	0.630/16.0
AIRD-06-270	27	K	0.026	20.5	5.5	500	0.546/13.9
AIRD-06-330	33	K	0.029	18.6	5.5	500	0.546/13.9
AIRD-06-390	39	K	0.030	17.0	5.5	500	0.594/15.1
AIRD-06-470	47	K	0.035	15.1	5.5	500	0.625/15.9
AIRD-06-560	56	K	0.039	13.6	5.5	500	0.625/15.9
AIRD-06-680	68	K	0.053	12.7	4.8	500	0.656/16.7
AIRD-06-820	82	K	0.060	11.3	4.8	500	0.656/16.7
AIRD-06-101	100	K	0.080	10.4	4.0	500	0.593/15.1
AIRD-06-121	120	K	0.090	9.4	4.0	500	0.593/15.1
AIRD-06-151	150	K	0.098	8.6	4.0	500	0.593/15.1
AIRD-06-181	180	K	0.110	7.8	4.0	500	0.671/17.0
AIRD-06-221	220	K	0.150	7.0	2.8	500	0.593/15.1
AIRD-06-271	270	K	0.213	6.3	2.0	500	0.562/14.3
AIRD-06-331	330	K	0.305	5.2	1.6	500	0.590/15.0
AIRD-06-391	390	K	0.320	4.9	1.6	500	0.590/15.0
AIRD-06-471	470	K	0.355	4.5	1.6	500	0.590/15.0
AIRD-06-561	560	K	0.388	4.1	1.6	500	0.590/15.0
AIRD-06-681	680	K	0.430	3.7	1.6	500	0.590/15.0
AIRD-06-821	820	K	0.590	3.4	1.3	500	0.590/15.0
AIRD-06-102	1000	K	0.818	3.1	1.0	500	0.590/15.0
AIRD-06-122	1200	K	1.140	2.7	0.8	500	0.590/15.0
AIRD-06-152	1500	K	1.260	2.4	0.8	500	0.590/15.0
AIRD-06-182	1800	K	1.390	2.2	0.8	500	0.590/15.0
AIRD-06-222	2200	K	1.540	2.0	0.8	500	0.590/15.0

### Test Conditions and equipments

Test frequency: 1Hz, 0.1Vrms

DCR: QuadTech Milliohmmeter

Isat: 10% inductance drops from initial value

Irms  $\Delta$  T of 40°C temperature rise max

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21.3 x  $\phi$ 21.1 mm

## PART NUMBER IDENTIFICATION

AIRD-06-

### Inductance Code

Please refer to the  
Electrical Spec Table

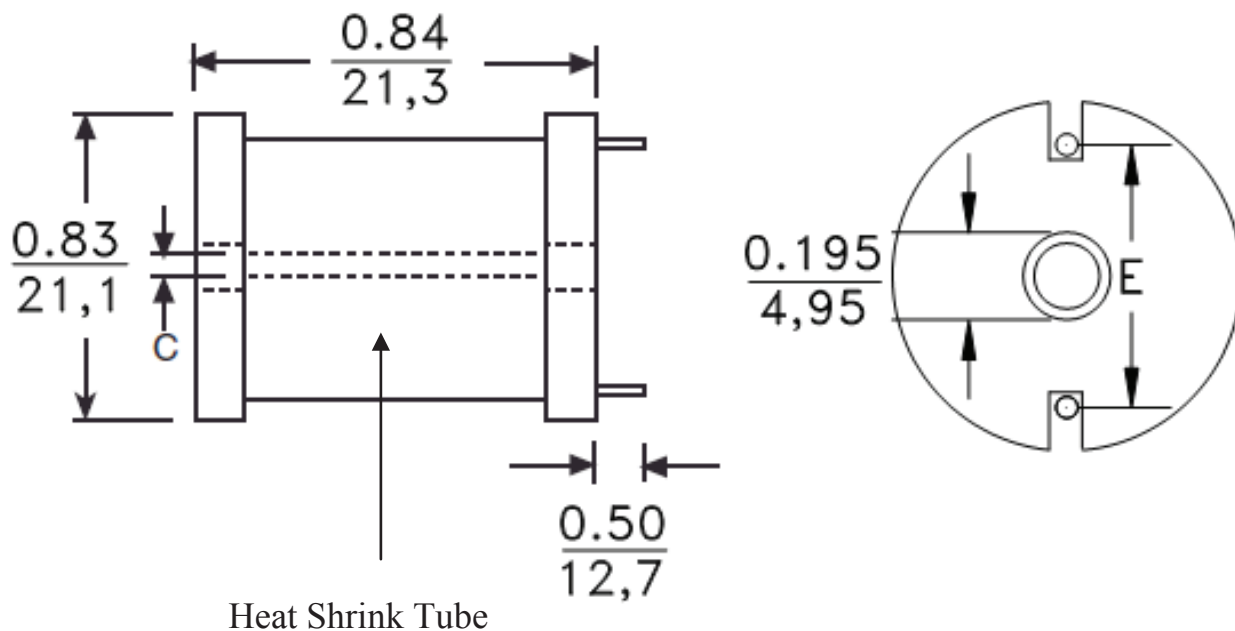
### Tolerance

M:  $\pm 20\%^*$

K:  $\pm 10\%^*$

\*1.0 ~ 8.2 $\mu$ H: M only  
10 ~ 2,200 $\mu$ H: K only

## OUTLINE DIMENSION:



**C:** The mounting hole will have clearance for 4/40 screw

Dimension: inch (mm)

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