

HIGH CURRENT INDUCTORS

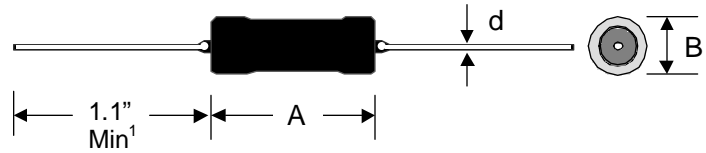
HL SERIES

FEATURES

- ❑ High saturation core enables high inductance with low DC resistance
- ❑ Industry's widest selection! Current ratings up to 20 Amp, inductance range 1 μ H to 100mH
- ❑ Available on exclusive **SWIFT™** program!
- ❑ All sizes available on Tape & Reel

OPTIONS

- ❑ Option 'ER' Military Screening: per MIL-C-15305 (Thermal Shock -25/+85°, DCR, Inductance, Vis/Mech Insp)
- ❑ Option 'A': units are alpha-numerically marked
- ❑ Non-standard values, increased current, increased temp., inductance measured at high frequency, epoxy encapsulated version, cut & formed leads, etc.



RCD's HL is an economical inductor specifically designed for high current applications. The use of high saturation cores makes them ideal for switching power supply circuits. The characteristics of the core geometry enable a wide range of inductance values and high Q-levels (typically 10 to 70, depending on inductance value). Units are protected by flame retardant shrink tubing. Typical applications include RFI suppression, filters, SCR & Triac controls, switching regulators, power suppliers, and power amplifiers.

Inductance Value (μ H)	Test Frequency (MHz)	Q (Min.)	DCR S (Max.)	Rated Current (A)
0.82	25	37	.010	7.4
1.0	7.9	40	.011	7.0
1.2	7.9	39	.012	6.0
1.5	7.9	33	.014	5.0
1.8	7.9	37	.020	4.8
2.2	7.9	38	.025	4.4
2.5	7.9	40	.030	4.1
2.7	7.9	43	.028	4.0
3.3	7.9	35	.036	3.7
3.9	7.9	37	.048	3.4
4.7	7.9	37	.053	3.2
5.0	7.9	40	.080	2.9
5.6	7.9	35	.092	2.8
6.8	7.9	29	.113	2.6
7.5	7.9	30	.114	2.5
8.2	7.9	32	.116	2.2
10	7.9	40	.160	2.1
12	2.5	40	.140	2.0
15	2.5	40	.158	1.6
18	2.5	40	.180	1.5
22	2.5	40	.230	1.4
27	2.5	50	.285	1.3
33	2.5	45	.346	1.2
39	2.5	45	.371	1.1
47	2.5	45	.502	1.0
56	2.5	40	.687	.95
68	2.5	40	.888	.90
75	2.5	40	1.19	.86
82	2.5	50	1.20	.85

Inductance Value (μ H)	Test Frequency (MHz)	Q (Min.)	DCR S (Max.)	Rated Current (A)
100	2.5	60	1.60	.75
120	.79	70	1.72	.65
150	.79	60	1.95	.60
180	.79	70	2.07	.58
220	.79	50	2.18	.49
250	.79	40	2.70	.49
270	.79	50	2.53	.45
330	.79	50	3.33	.41
390	.79	45	3.45	.39
470	.79	40	5.20	.35
500	.79	35	5.30	.34
560	.79	40	5.40	.32
680	.79	45	5.90	.29
750	.79	30	6.00	.28
820	.79	40	6.32	.27
1000	.79	40	8.60	.22
1200	.25	70	10.0	.21
1500	.25	62	14.3	.19
1800	.25	62	15.8	.17
2200	.25	60	17.7	.15
2500	.25	60	18.0	.14
2700	.25	60	19.3	.14
3300	.25	50	21.7	.13
3900	.25	50	26.0	.12
4700	.25	50	29.9	.11
5000	.25	45	31.0	.10
6000	.25	35	41.0	.09
7500	.25	25	50.0	.08
10000	.25	25	70.0	.07

SPECIFICATIONS

Tolerance: $\pm 10\%$ standard ($\pm 5\%$ and $\pm 20\%$ available)
 Temperature Range: -40 to +105°C
 Temperature Rise: 20°C typ. at full rated current

APPLICATIONS: Typical applications include noise filtering, DC/DC converters, switching regulators, audio equipment, telecom, RF circuits, audio filters, hash filters, power supplies, power amplifiers, etc. Customized models available for specific applications (consult factory).

P/N DESIGNATION:

