

HIGH CURRENT POWER CHOKES

HL SERIES

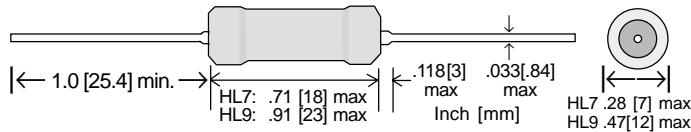


Term.W is
RoHS
compliant
& 260°C
compatible



- ☐ Low price, wide selection, 2.7μH to 100,000μH, up to 15.5A
- ☐ Option ER Military Screening: per MIL-PRF-15305 Grp.A
- ☐ Non-standard values & sizes, increased current & temp., inductance measured at high freq., cut & formed leads, etc.

HL chokes are specifically designed for high current applications. The use of high saturation cores and flame retardant shrink tubing makes them ideal for switching power supply circuits.



SERIES HL7

Inductance Value (μH)	DCR (Max@20°C)	DC Saturation Current (A)	Rated Current (A)	SRF (MHz, Typ)
2.7	.016	7.9	1.6	39
3.9	.019	7.3	1.3	32
4.7	.022	6.3	1.3	36
5.6	.024	5.6	1.3	25
6.8	.026	5.3	1.3	25
8.2	.028	4.5	1.3	21
10	.033	4.1	1.3	17
12	.037	3.6	1.3	15
15	.040	3.3	1.3	12
18	.044	3.0	1.3	11
22	.050	2.7	1.3	10
27	.058	2.5	1.3	7
33	.075	2.2	1.0	6.8
39	.094	2.0	.80	5.7
47	.10	1.8	.80	4.8
56	.13	1.7	.80	4.4
68	.14	1.5	.80	3.8
82	.15	1.4	.80	3.7
100	.21	1.2	.63	3.0
120	.28	1.1	.50	2.9
150	.34	1.0	.50	2.5
180	.36	.95	.50	2.4
220	.43	.86	.50	2.1
270	.56	.77	.40	1.9
330	.67	.70	.40	1.8
390	.77	.64	.40	1.4
470	1.2	.59	.31	1.4
560	1.3	.54	.31	1.0
680	1.6	.49	.25	1.0
820	2.0	.44	.20	1.0
1000	2.3	.40	.20	.90
1200	2.7	.35	.20	.77
1500	3.5	.33	.15	.76
1800	4.0	.29	.15	.64
2200	4.5	.27	.15	.51
2700	5.4	.24	.12	.51
3300	6.6	.22	.12	.48
3900	8.6	.20	.10	.45
4700	9.7	.18	.10	.42
5600	14	.16	.08	.32
6800	16	.15	.08	.30
8200	21	.13	.06	.28
10000	26	.12	.05	.26
12,000	30	.11	.05	.23
15,000	43	.10	.039	.18
18,000	48	.09	.03	.18

SERIES HL9

Inductance Value (μH)	DCR (Max@20°C)	DC Saturation Current (A)	Rated Current (A)	SRF (MHz, Typ)
3.9	.007	15.5	4	34
4.7	.008	13.9	4	31
5.6	.011	12.6	4	29
6.8	.011	11.6	4	26
8.2	.013	9.89	4	23
10	.017	8.70	4	20
12	.019	8.21	4	17
15	.022	7.34	4	14
18	.023	6.64	4	11
22	.026	6.07	4	10
27	.027	5.36	4	9
33	.032	4.82	4	9
39	.033	4.36	4	8
47	.035	3.98	4	7
56	.037	3.66	3.2	6
68	.047	3.31	2.5	5
82	.060	3.10	2.0	4
100	.09	2.8	1.6	3
120	.11	2.5	1.6	3
150	.13	2.2	1.6	3
180	.15	2.0	1.6	2
220	.16	1.9	1.6	2
270	.20	1.6	1.6	2
330	.21	1.5	1.6	2
390	.28	1.4	1.6	2
470	.38	1.2	1.2	1
560	.42	1.2	1.0	1
680	.55	1.0	1.0	1
820	.66	.97	0.8	1
1000	.84	.87	0.8	1
1200	1.0	.79	0.6	1
1500	1.2	.70	0.6	.75
1800	1.6	.64	0.6	.72
2200	2.0	.58	0.5	.70
2700	2.1	.53	0.4	.65
3300	2.5	.47	0.4	.60
3900	2.7	.43	0.4	.55
4700	3.2	.39	0.4	.50
5600	3.9	.36	.32	.40
6800	5.7	.32	.25	.35
8200	6.3	.29	.25	.30
10000	7.3	.27	.25	.30
12,000	9.2	.24	.20	.30
15,000	10.5	.21	.20	.30
18,000	14.8	.20	.16	.20
22,000	21.8	.18	.13	.20
27,000	22.7	.16	.13	.15
33,000	25.7	.15	.13	.15
39,000	31.8	.14	.10	.15
47,000	36.1	.12	.10	.10
56,000	40.9	.11	.10	.10
68,000	57.3	.10	.08	.10
82,000	79.3	.09	.07	.10
100,000	89.7	.08	.07	.10

SPECIFICATIONS

Test Frequency: 1KHz @0DCA
 Tolerance: ±10% standard (±5%, ±15% and ±20% available)
 Temperature Rise: 20°C typ. at full rated current
 Temp.Range: -55°C to +125°C (no load), +100°C max at rated A
 Saturation Current: lowers inductance approx. 5% (10% max)

APPLICATIONS: Typical applications include buck/boost, noise filtering, DC/DC converters, SCR & triac controls, EMI suppression, switching power circuits, audio equipment, telecom, filters, power amplifiers, etc. Designed for use with Linear Tech LT1073 & LT1173, National Semi LM2574, Unitrode UC2575. Customized models available.

P/N DESIGNATION:

HL9 - **100** - **K** **B** **W**

RCD Type _____

Option Codes: ER, A (leave blank if std)

Inductance (uH): 2 signif. digits & multiplier, e.g. 1R0=1uH, 100=10uH, 101=100uH, 102=1000uH

Tolerance Code: J= 5%, K=10% (std), W= 15%, M= 20%

Packaging: B = Bulk, T = Tape & Reel

Termination: W= Lead-free, Q= Tin/Lead (leave blank if either is acceptable)