

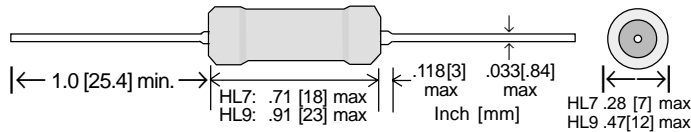
HIGH CURRENT POWER CHOKES

HL SERIES



- 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)