



XTHCL 1 SERIES MAXIMUM POWER DENSITY



+200°C

Inductance Range	DCR max (Ohms)	Current Rating (A)
14 uH - 2.50 mH	0.010 - 1.72	2.0 - 30

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -40°C to +200°C
- **Storage Temperature:** -55°C to +200°C
- **Temperature Rise:** See Performance Curves
- **Dielectric Withstanding Voltage:** 500 V_{RMS}
- **Different electrical values available upon request**

FEATURES

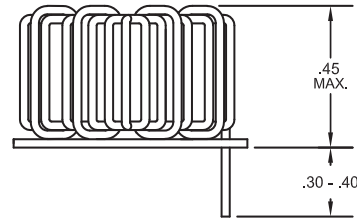
- Ideal for geophysical applications in environments up to 200°C
- **Terminations:** Tin-lead, Lead Free (RoHS), HMP required high temperature version
- **Moisture, Shock and Immersion Resistant**
- **Magnetically Shielded**

APPLICATIONS

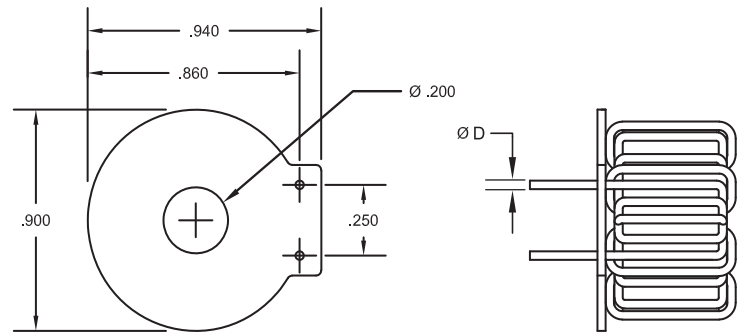
- DC power choke
- Resonant inductor
- Input/Output filter
- Swinging inductor

ALL DIMENSIONS: INCHES

MARKINGS: LASER ETCH OR INK



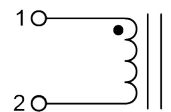
SIDE VIEW



BOTTOM VIEW

SIDE VIEW

Tolerances ±.010 inches



SCHEMATIC

CUSTOM DESIGNS & MODIFICATIONS:

Other electrical configurations and performance characteristics are available in various sizes and package types





DATA TABLE

Vanguard P/N	Inductance ±10%	Inc. Inductance (uH)	DCR max (Ohms)	Rated Current (ADC)	Lead Dimension "D"
XTHCL1-140	14 uH	9.2	0.010	30	0.052
XTHCL1-500	50 uH	31	0.017	15	0.046
XTHCL1-111	110 uH	71	0.05	9.5	0.037
XTHCL1-201	200 uH	126	0.15	8.3	0.033
XTHCL1-391	390 uH	265	0.16	4.5	0.026
XTHCL1-591	590 uH	446	0.28	4.0	0.021
XTHCL1-751	750 uH	541	1.28	3.7	0.021
XTHCL1-102	1.00 mH	748	1.28	3.1	0.019
XTHCL1-182	1.85 mH	1346	0.83	2.4	0.017
XTHCL1-222	2.20 mH	1540	0.72	2.3	0.017
XTHCL1-252	2.50 mH	1873	1.72	2.0	0.015

1/ Inductance measured at 10 kHz, 0.1 V_{RMS}

2/ DCR measured at room temperature

3/ Incremental inductance is the approximate value that the inductance will drop to when rated current is applied

4/ Maximum Weight: TBD

VE PART NUMBER STRUCTURE KEY

INDUCTANCE (uH)

The first two digits are significant. The last digit specifies zeroes to follow:

140 = 14 uH

EXAMPLE: XTHCL1-140KS-7-B

TOLERANCE (%)

K	± 10
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TERMINATION

S	SnPb
R	Pure Tin

RELIABILITY

7	Other
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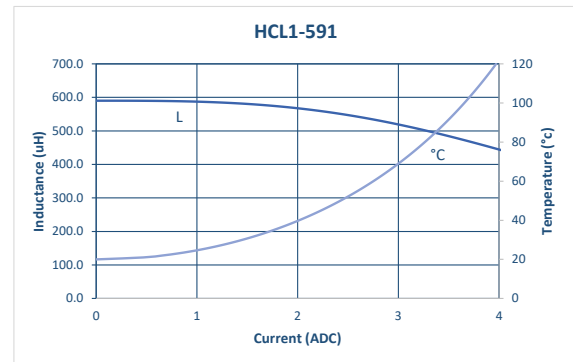
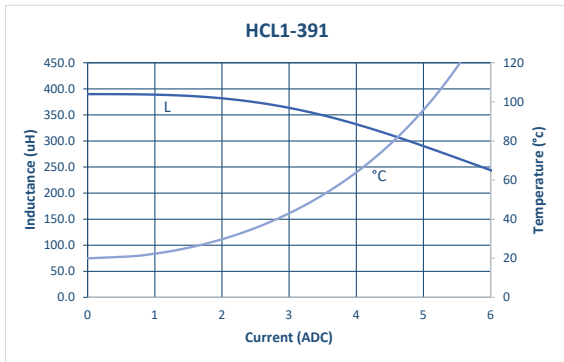
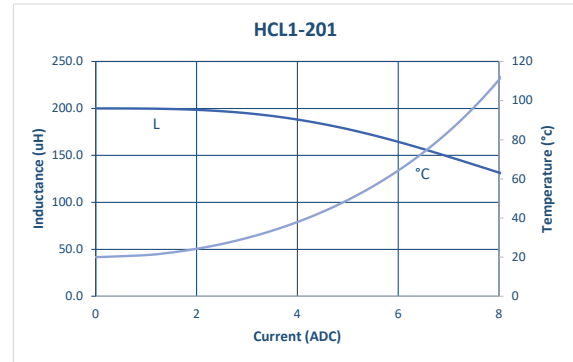
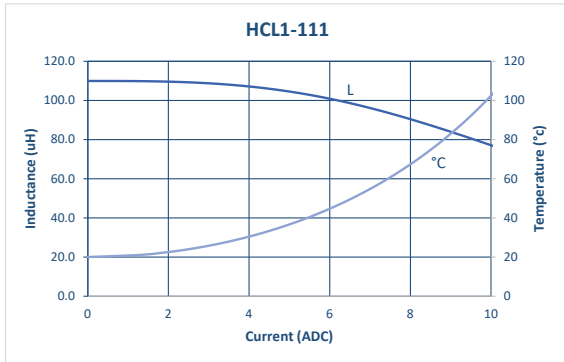
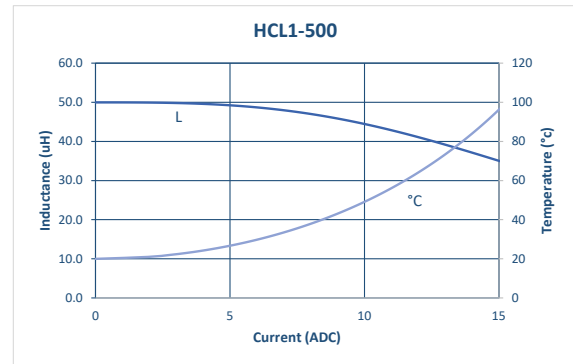
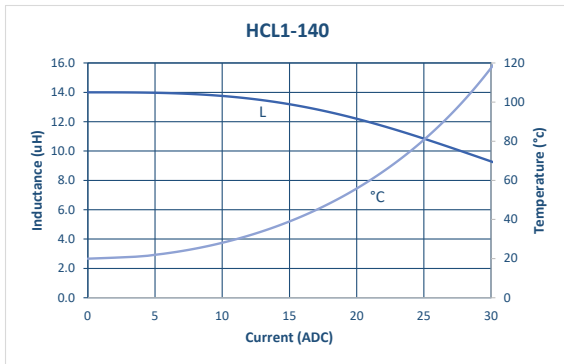
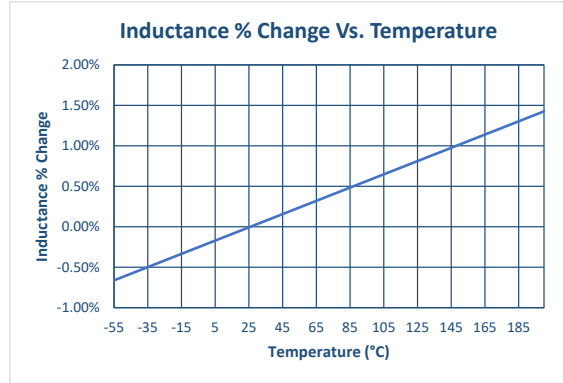
PACKAGING (Default Bulk)

B	Bulk
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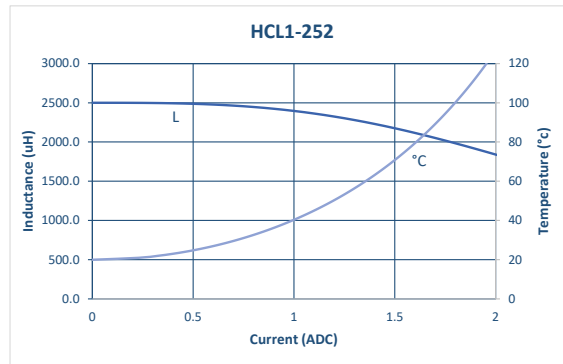
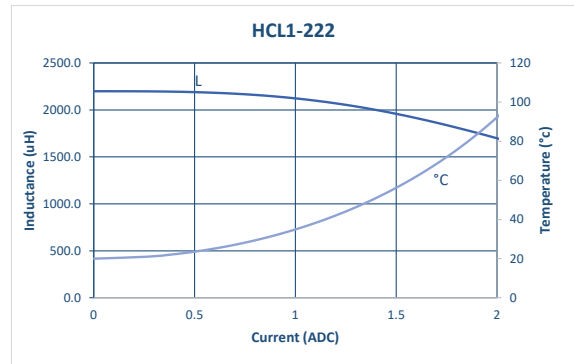
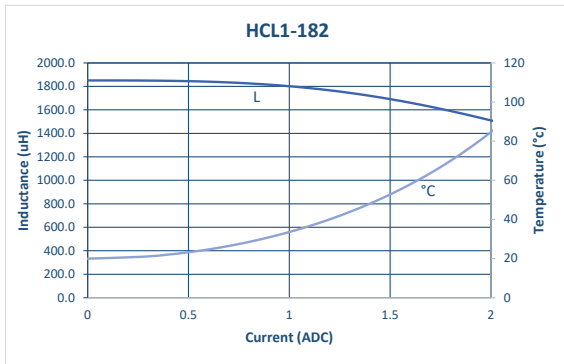
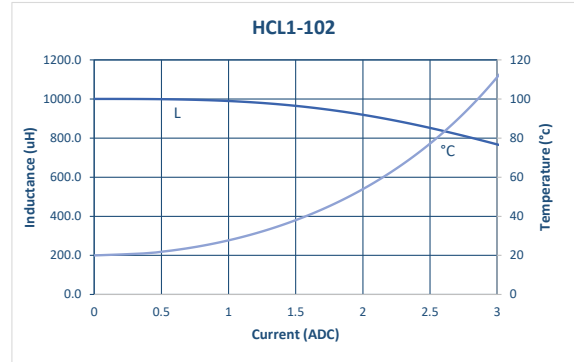
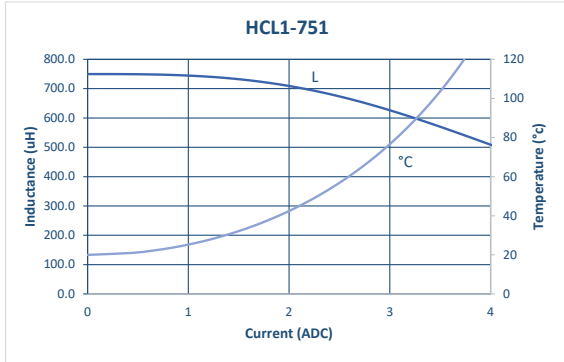


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