



## XTHCL2 SERIES MAXIMUM POWER DENSITY



### +200°C

Inductance Range (mH)	DCR max (Ohms)	Current Rating (A)
0.025 - 16.0	0.011 - 4.5	1.4 - 27.6

### 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<sub>RMS</sub>
- **Different electrical values available upon request**

### FEATURES

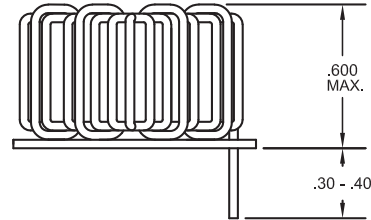
- Ideal for geophysical applications in environments up to 200°C
- **Terminations:** Tin-lead, Lead Free (RoHS), HMP required high temperature version
- **Moisture, Shock and Immersion Resistant**
- **Magnetically Shielded**

### APPLICATIONS

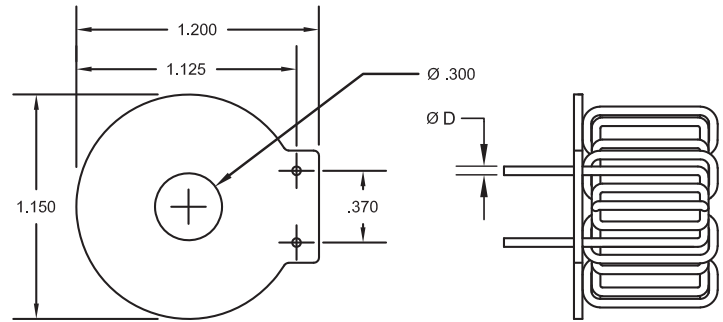
- DC power choke
- Resonant inductor
- Input/Output filter
- Swinging inductor

ALL DIMENSIONS: INCHES

MARKINGS: LASER ETCH OR INK



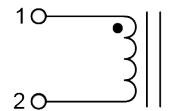
SIDE VIEW



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% (mH)	Inc. Inductance (mH)	DCR max (Ohms)	Rated Current (ADC)	Lead Dimension "D"
XTHCL2-250	0.025	0.020	0.011	27.6	0.052
XTHCL2-500	0.050	0.035	0.015	23.1	0.052
XTHCL2-750	0.075	0.047	0.020	20.8	0.052
XTHCL2-101	0.10	0.066	0.027	17.4	0.046
XTHCL2-251	0.25	0.165	0.07	10.9	0.037
XTHCL2-501	0.50	0.350	0.15	7.3	0.030
XTHCL2-751	0.75	0.530	0.24	5.9	0.026
XTHCL2-122	1.2	0.750	0.30	5.2	0.026
XTHCL2-202	2.0	1.2	0.50	4.0	0.024
XTHCL2-292	2.9	1.8	0.75	3.3	0.021
XTHCL2-502	5.0	3.1	1.2	2.6	0.019
XTHCL2-692	6.9	4.5	1.8	2.1	0.017
XTHCL2-103	10.0	6.6	2.8	1.7	0.015
XTHCL2-163	16.0	10.6	4.5	1.4	0.014

1/ Inductance measured at 10 kHz, 0.1 V<sub>RMS</sub>

2/ DCR measured at room temperature

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

4/ Maximum Weight: TBD

### VE PART NUMBER STRUCTURE KEY

EXAMPLE: XTHCL2-101KS-7-B

**INDUCTANCE (mH)**

**TOLERANCE (%)**

**TERMINATION**

**RELIABILITY**

**PACKAGING (Default Bulk)**

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

<b>K</b>	± 10
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<b>S</b>	SnPb
<b>R</b>	Pure Tin

<b>7</b>	Other
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<b>B</b>	Bulk
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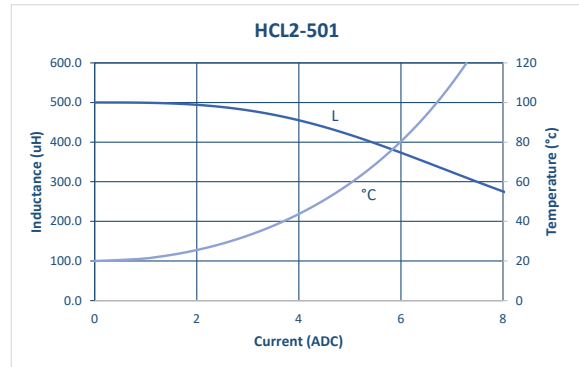
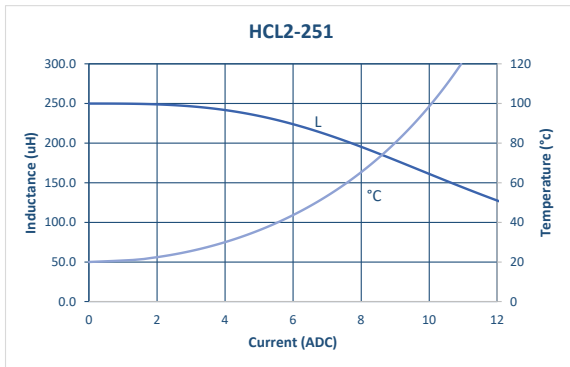
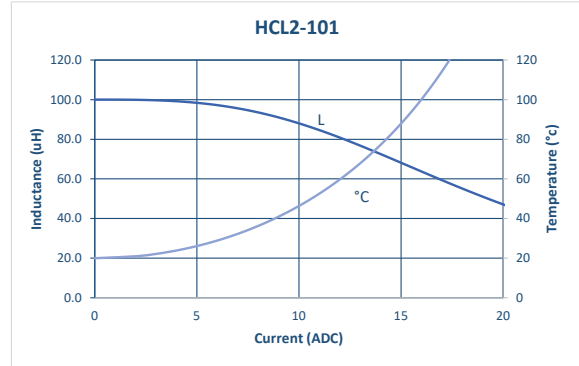
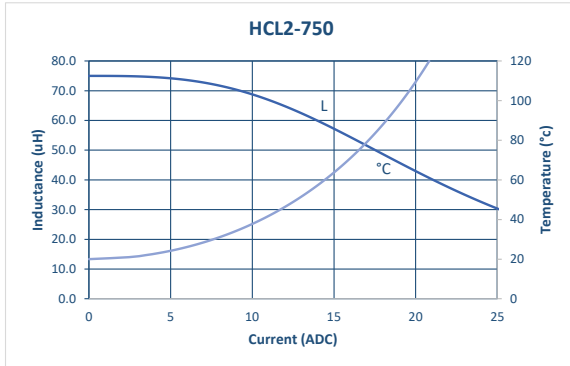
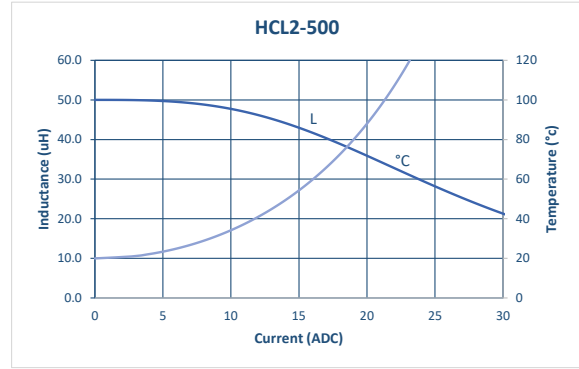
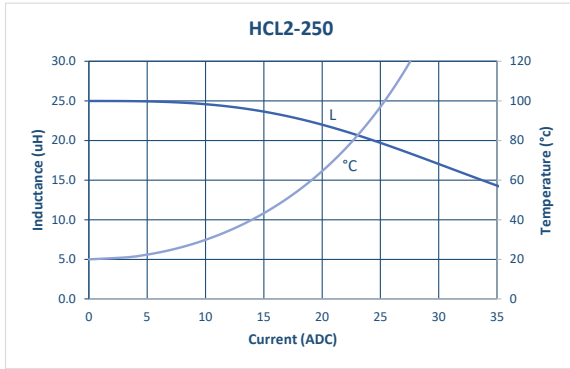
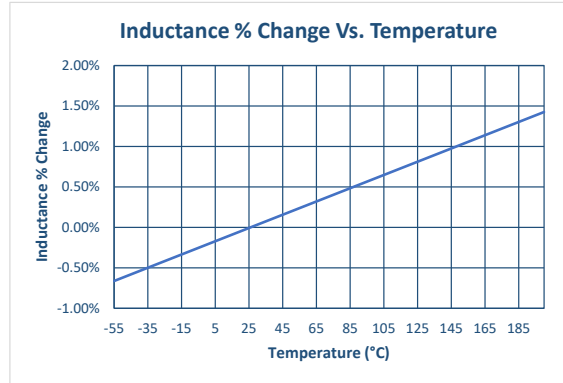
101 = 100 mH

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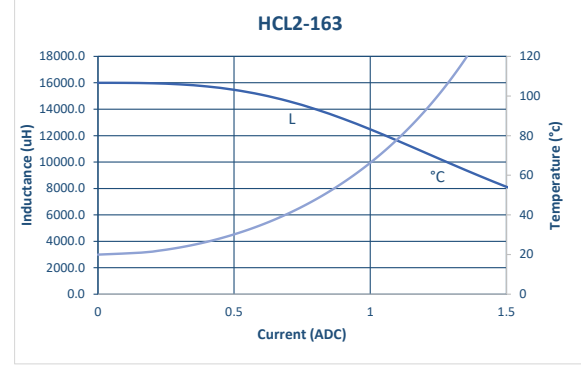
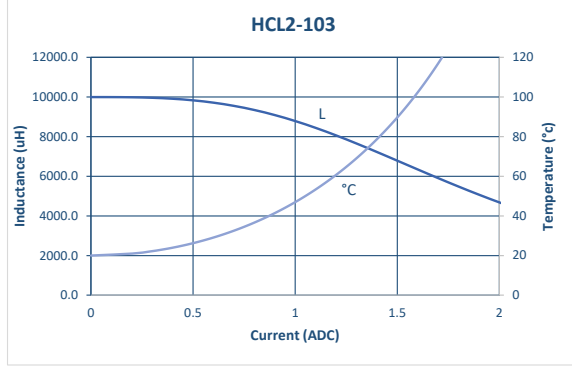
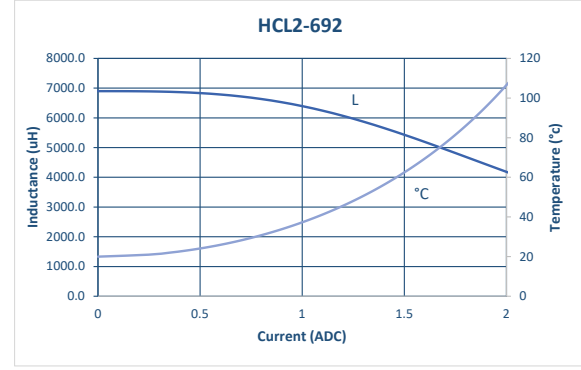
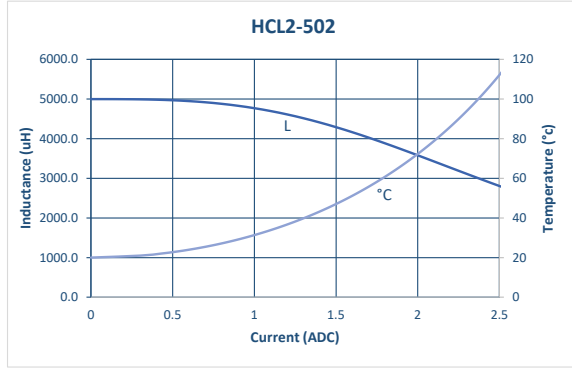
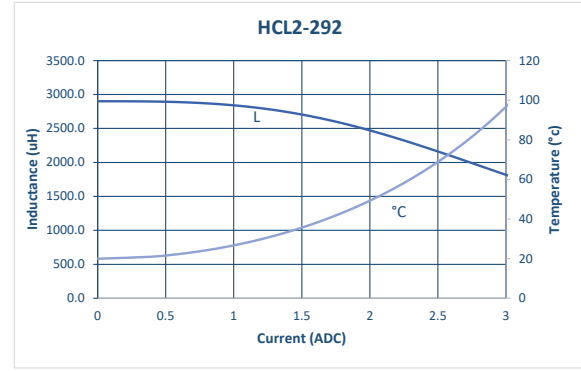
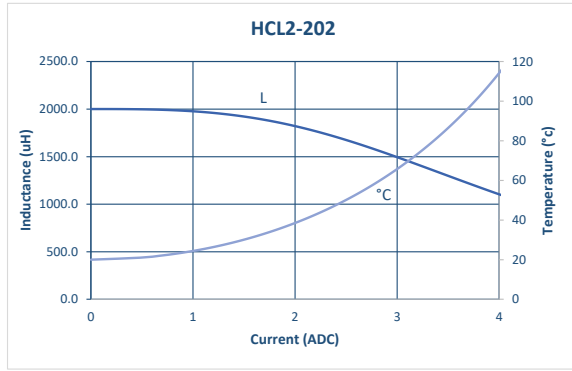
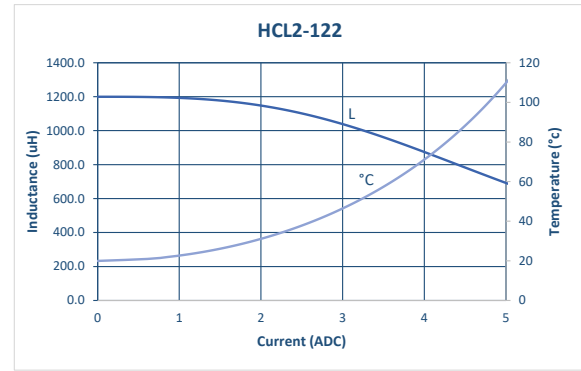
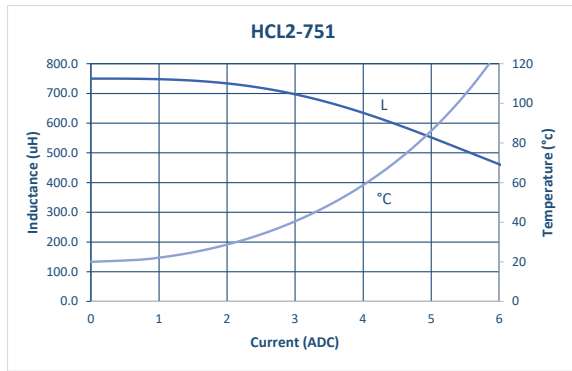


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