



HCL2 SERIES

MAXIMUM POWER DENSITY



ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +180
- **Storage Temperature:** -55°C to +180
- **Temperature Rise:** See Performance Curves
- **Dielectric Withstanding Voltage:** 500 V_{RMS}
- **Different electrical values available upon request**

FEATURES

- **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

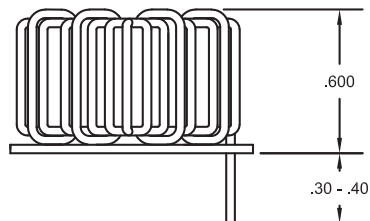
RoHS VERSION AVAILABLE

HI-RELIABILITY

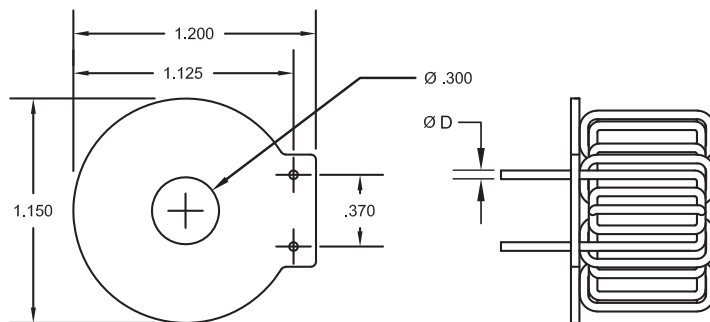
Inductance Range (mH)	DCR max (Ohms)	Current Rating (A)
0.025 - 16.0	0.011 - 4.5	1.4 - 27.6

ALL DIMENSIONS: INCHES

MARKINGS: LASER ETCH OR INK

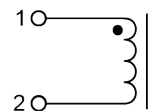


SIDE VIEW



BOTTOM VIEW

SIDE VIEW



SCHEMATIC

CUSTOM DESIGNS & MODIFICATIONS:

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

HCL2 SERIES





DATA TABLE

Vanguard P/N	Inductance $\pm 10\%$ (mH)	Inc. Inductance (mH)	DCR max (Ohms)	Rated Current (ADC)	Lead Dimension "D"
HCL2-250	0.025	0.020	0.011	27.6	0.052
HCL2-500	0.050	0.035	0.015	23.1	0.052
HCL2-750	0.075	0.047	0.020	20.8	0.052
HCL2-101	0.10	0.066	0.027	17.4	0.046
HCL2-251	0.25	0.165	0.07	10.9	0.037
HCL2-501	0.50	0.350	0.15	7.3	0.030
HCL2-751	0.75	0.530	0.24	5.9	0.026
HCL2-122	1.2	0.750	0.30	5.2	0.026
HCL2-202	2.0	1.2	0.50	4.0	0.024
HCL2-292	2.9	1.8	0.75	3.3	0.021
HCL2-502	5.0	3.1	1.2	2.6	0.019
HCL2-692	6.9	4.5	1.8	2.1	0.017
HCL2-103	10.0	6.6	2.8	1.7	0.015
HCL2-163	16.0	10.6	4.5	1.4	0.014

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 when rated current is applied

4/ Maximum Weight: TBD

VE PART NUMBER STRUCTURE KEY

INDUCTANCE (mH)

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

101 = 100 mH

EXAMPLE: HCL2-101KS-1-B

TOLERANCE (%)

K	± 10
---	----------

TERMINATION

S	SnPb
R	Pure Tin

RELIABILITY

1	COTS/EM
7	Other

PACKAGING (Default Bulk)

B	Bulk
---	------

CUSTOM DESIGNS & MODIFICATIONS:

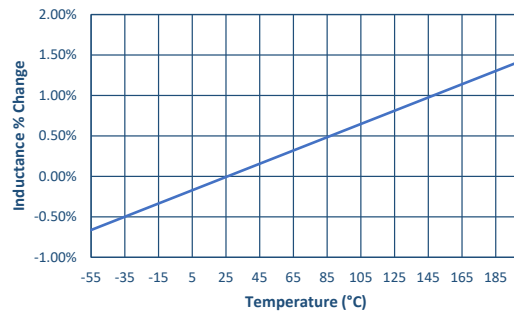
Other electrical configurations and performance characteristics are available in various sizes and package types

HCL2 SERIES

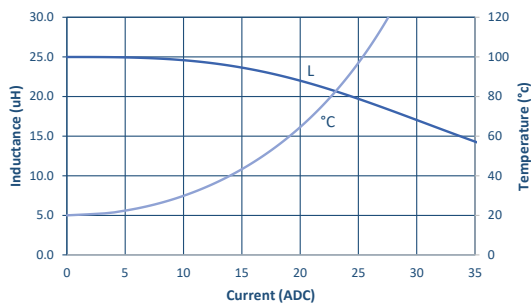




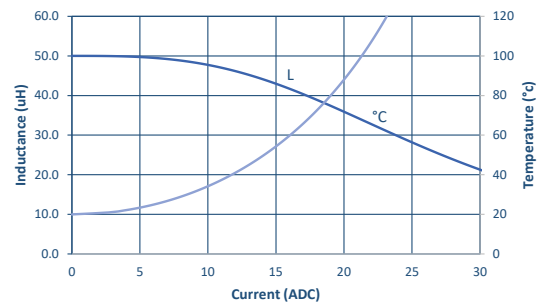
Inductance % Change Vs. Temperature



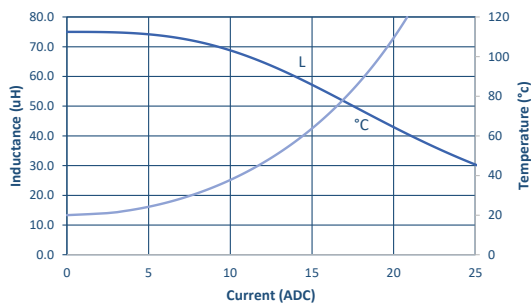
HCL2-250



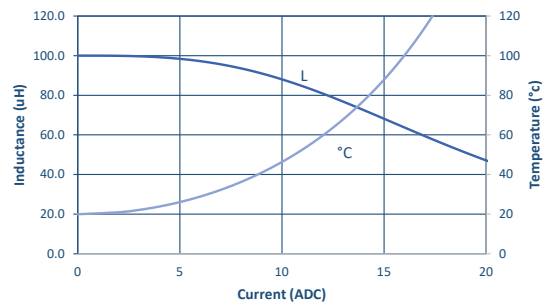
HCL2-500



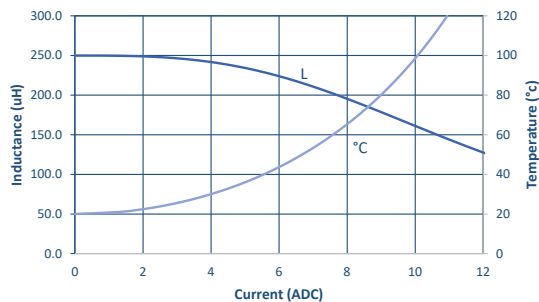
HCL2-750



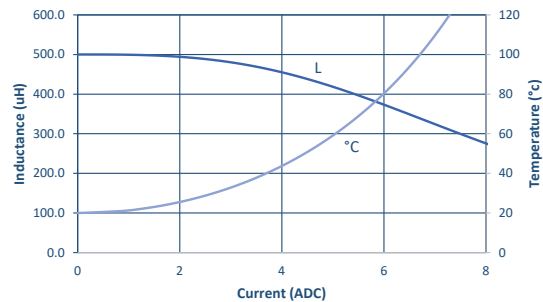
HCL2-101



HCL2-251



HCL2-501

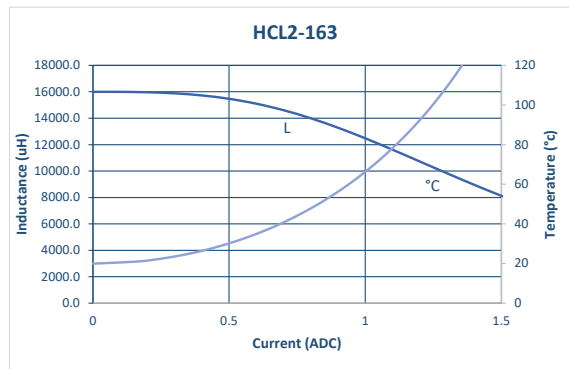
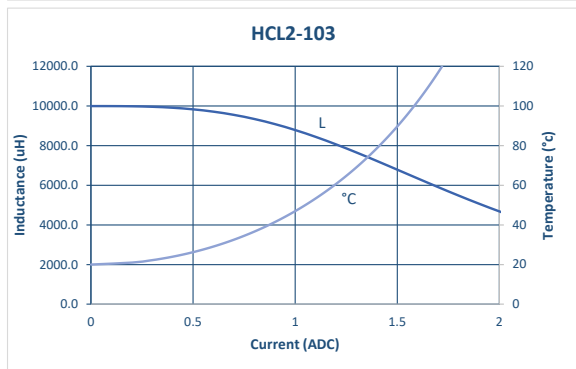
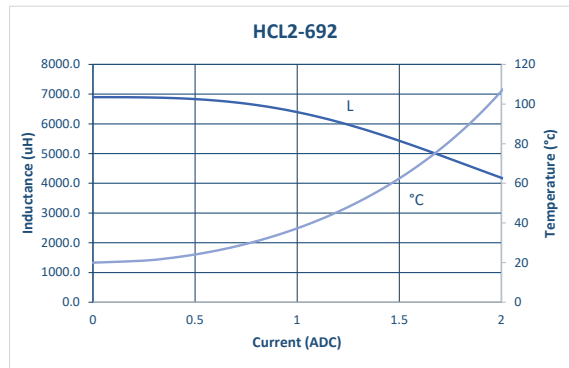
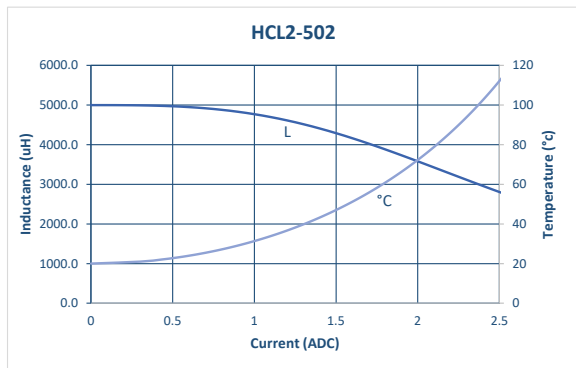
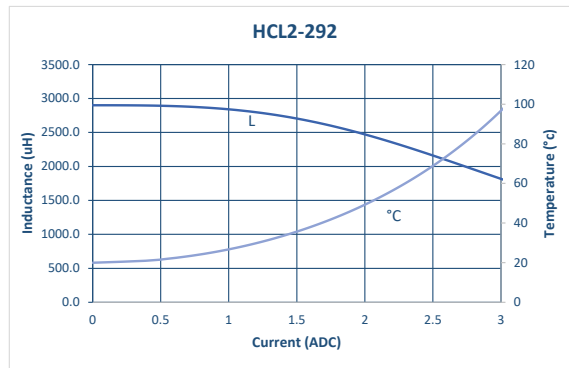
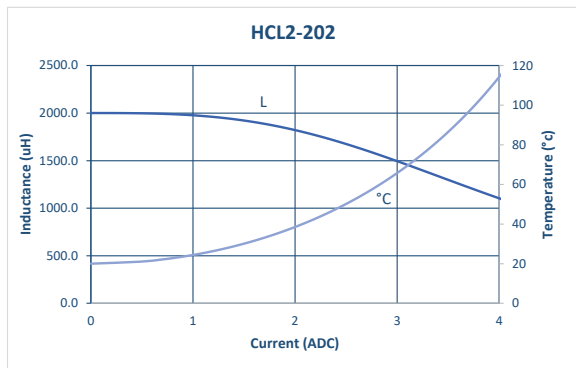
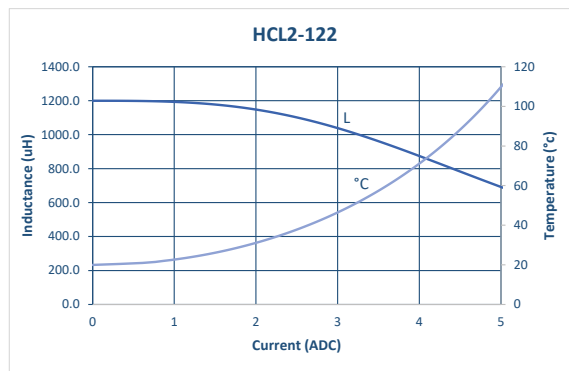
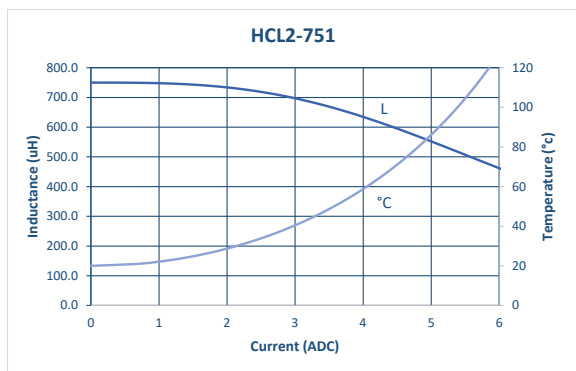


CUSTOM DESIGNS & MODIFICATIONS:

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

HCL2 SERIES





CUSTOM DESIGNS & MODIFICATIONS:

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

HCL2 SERIES

