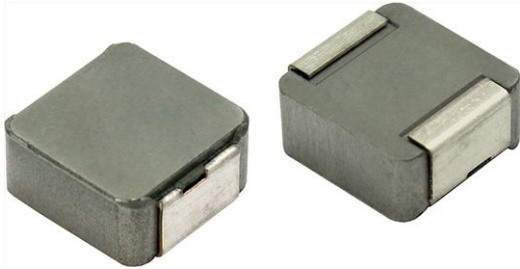


## IHLP<sup>®</sup> Commercial Inductors, Low DCR Series



### FEATURES

- Alternative IHLP parts with short 10 week lead time
- Shielded construction
- Excellent DC/DC energy storage up to 1 MHz to 2 MHz. Filter inductor applications up to SRF (see “Standard Electrical Specifications” table)
- Lowest DCR/μH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**

### APPLICATIONS

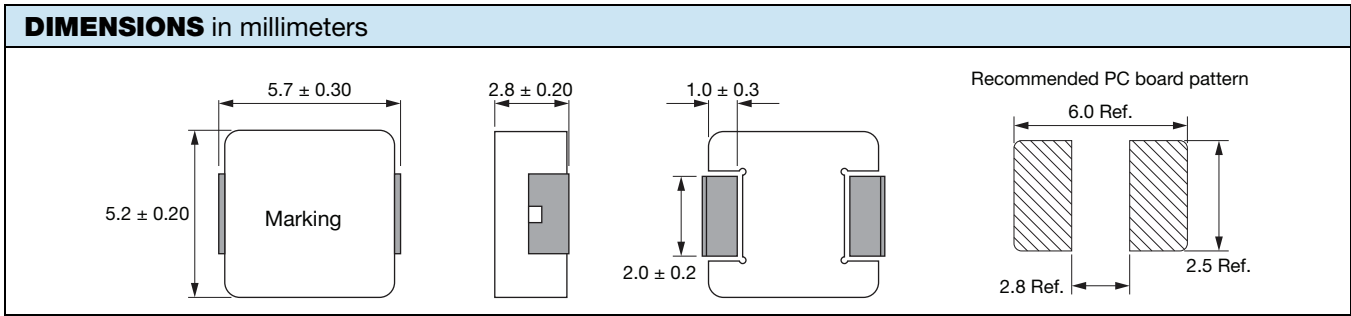
- PDA / notebook / desktop / server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)

### STANDARD ELECTRICAL SPECIFICATIONS

L <sub>0</sub> INDUCTANCE AT 100 kHz, 1.0 V, 0 A (μH)	TOLERANCE (%)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) <sup>(1)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(2)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(3)</sup>	SRF REF. (MHz)
0.47	± 20	5.2	6.0	13.5	6.0	10.0	70.0
1.0	± 20	10.5	12.0	9.0	5.1	8.5	50.0
1.5	± 20	17.1	18.5	7.5	4.5	7.5	42.0
2.2	± 20	22.5	25	6.75	4.0	6.5	32.0
3.3	± 20	36.4	40.4	5.5	3.6	6.0	24.0
4.7	± 20	54.0	60.0	4.5	3.2	5.3	20.0
5.6	± 20	63.0	70.6	4.25	2.6	4.6	18.0
10	± 20	122.1	131.9	2.75	1.4	2.5	14.0
15	± 20	156	174	2.4	1.2	2.2	12.0

#### Notes

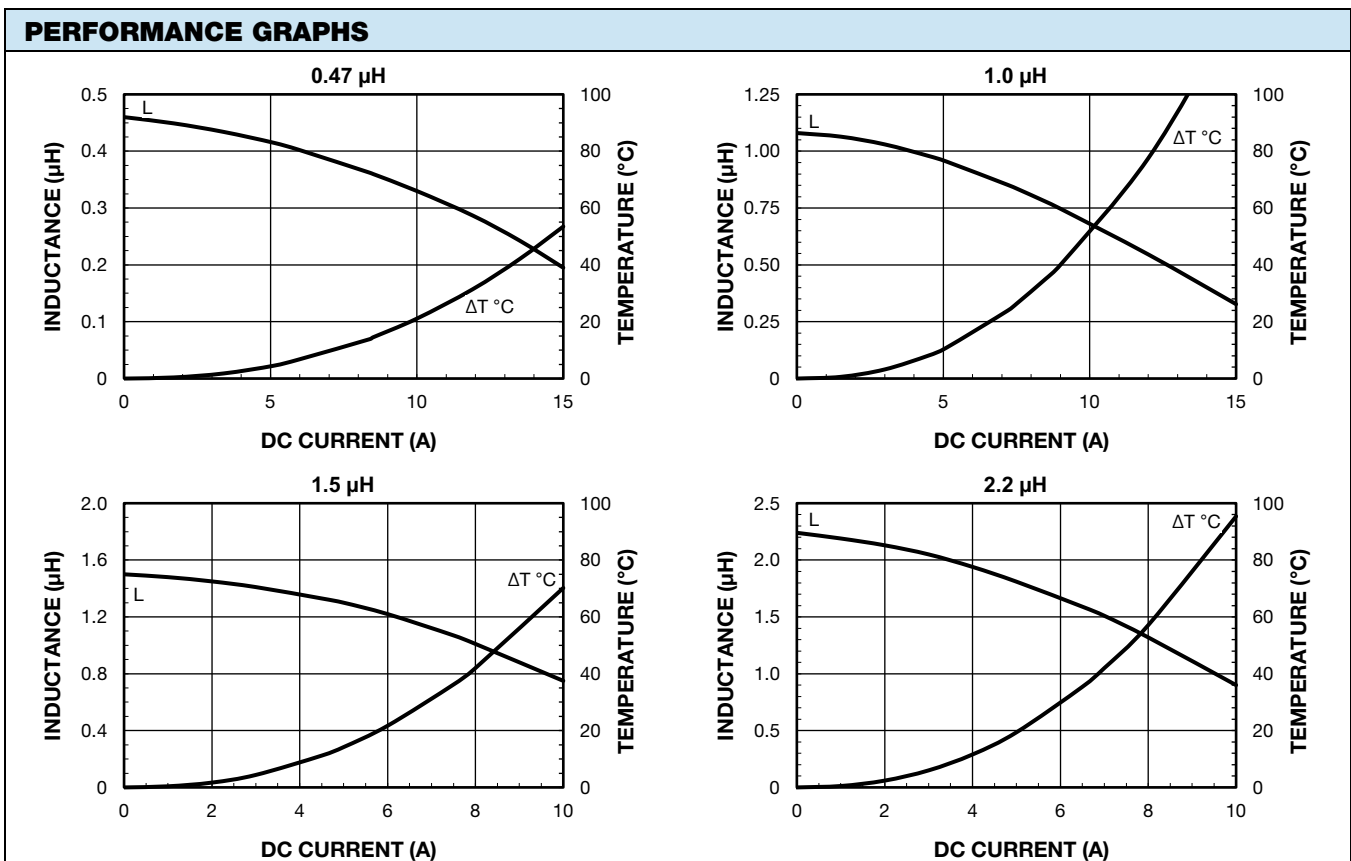
- All test data is referenced to 25 °C ambient
  - Operating temperature range -55 °C to +125 °C
  - The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application
- (1) DC current (A) that will cause an approximate ΔT of 40 °C  
 (2) DC current (A) that will cause L<sub>0</sub> to drop approximately 20 %  
 (3) DC current (A) that will cause L<sub>0</sub> to drop approximately 30 %



DESCRIPTION					
IHLP-2020CZET-11	1.0 $\mu$ H	$\pm 20\%$	ET	e3	
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD	

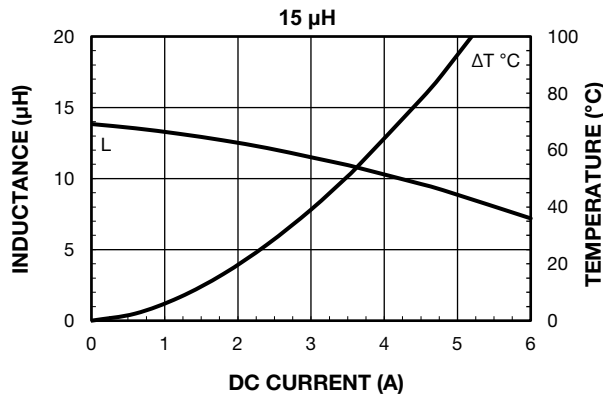
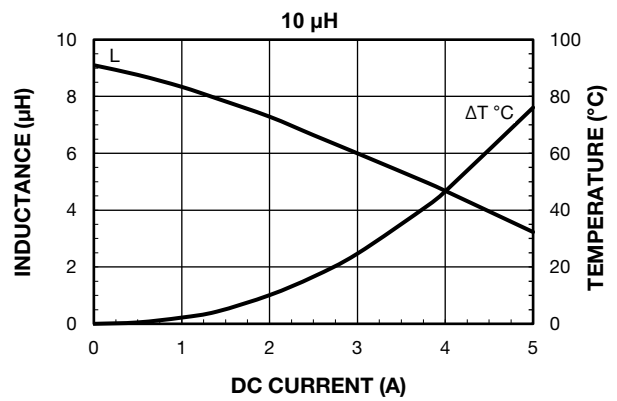
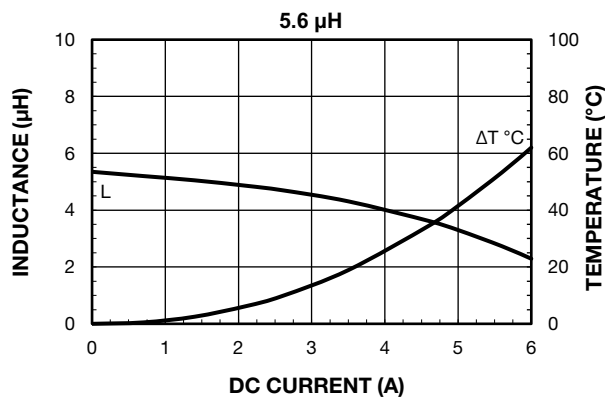
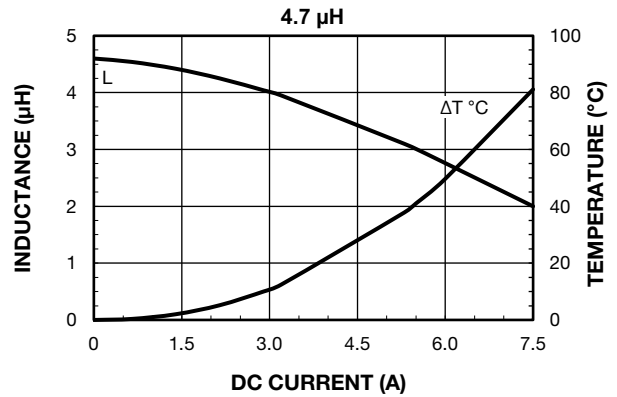
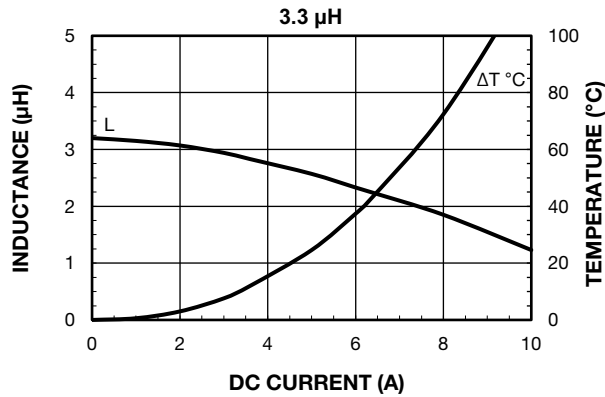
**GLOBAL PART NUMBER**

I	H	L	P	2	0	2	0	C	Z	E	T	1	R	0	M	1	1
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.	SERIES			





PERFORMANCE GRAPHS



**PACKAGING INFORMATION**

<b>REEL DIMENSIONS</b> in millimeters			
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
12.4 +2.0 / -0.0	100 ± 2.0	13.0 +0.5 / -0.2	330

<b>TAPE DIMENSIONS</b> in millimeters						
<b>B0</b>	<b>A0</b>	<b>K0</b>	<b>P</b>	<b>W</b>	<b>F</b>	<b>T</b>
6.2 ± 0.1	5.6 ± 0.1	3.3 ± 0.1	8.0 ± 0.1	12.0 ± 0.3	5.5 ± 0.1	0.35 ± 0.05

**Note**

- Reel quantity = 2000 pcs



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