



# IHLP® Automotive Inductors, High Temperature (155 °C) Series



## LINKS TO ADDITIONAL RESOURCES



STANDARD ELECTRICAL SPECIFICATIONS					
L <sub>0</sub> INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	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>	SRF TYP. (MHz)
0.47	0.89	0.95	65.0	76.0	52.3
1.0	1.36	1.46	53.0	42.0	35.5
1.5	1.72	1.85	40.5	40.0	24.0
2.2	2.25	2.41	38.5	38.0	19.8
3.3	3.06	3.27	32.2	32.0	16.5
4.7	4.89	5.23	24.0	26.0	14.0
8.2	8.6	9.23	17.5	14.5	9.40
10.0	10.20	10.91	16.0	13.0	7.70
15.0	15.85	16.96	12.5	13.0	8.55
22.0	21.28	22.27	11.7	11.0	5.97
33.0	36.2	38.9	8.8	9.4	4.43
47.0	52.7	56.4	7.25	7.0	3.72

### Notes

- All test data is referenced to 25 °C ambient
  - Operating temperature range -55 °C to +155 °C
  - The part temperature (ambient + temp. rise) should not exceed 155 °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
  - Rated operating voltage (across inductor) = 75 V
- (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 %

## FEATURES

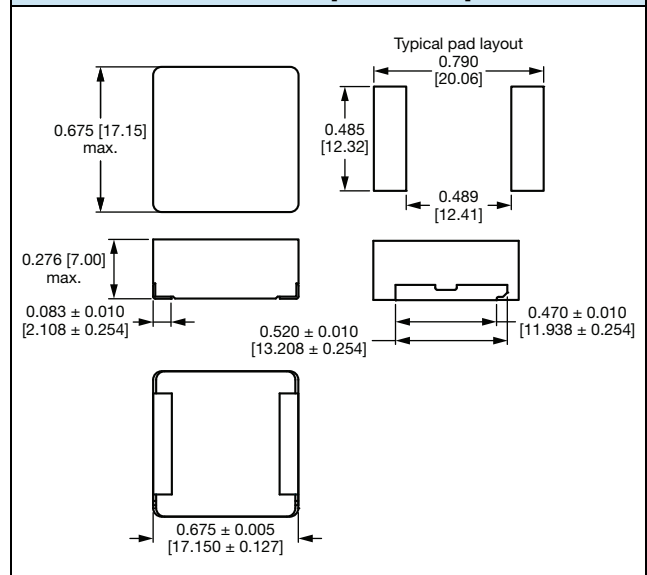
- High temperature, up to 155 °C
- Shielded construction
- Excellent DC/DC energy storage up to 1 MHz to 2 MHz. Filter inductor applications up the SRF (see Standard Electrical Specifications table)
- Lowest DCR/μH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- AEC-Q200 qualified
- IHLP design; PATENT(S): [www.vishay.com/patents](http://www.vishay.com/patents)
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



## APPLICATIONS

- Engine and transmission control units
- Diesel injection drivers
- DC/DC converters for entertainment / navigation systems
- Noise suppression for motors: windshield wipers / power seats / power mirrors / heating and ventilation blowers / HID lighting
- LED drivers

## DIMENSIONS in inches [millimeters]



DESCRIPTION					
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD	
IHLP-6767GZ-5A	2.2 μH	± 20 %	ER	e3	

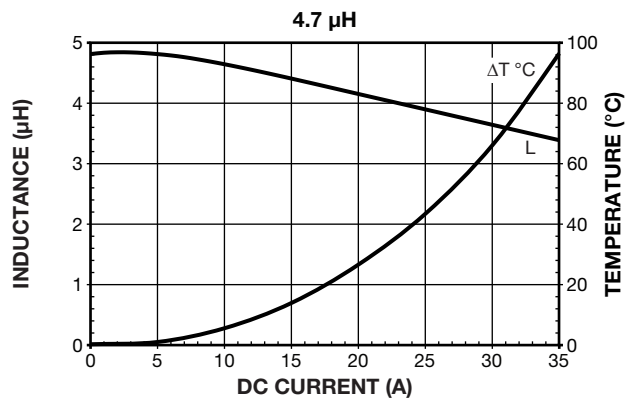
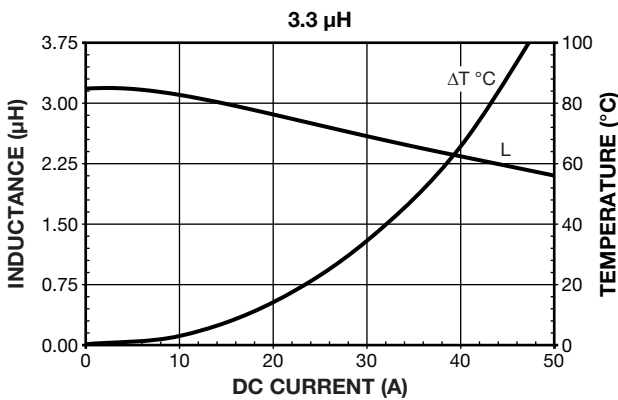
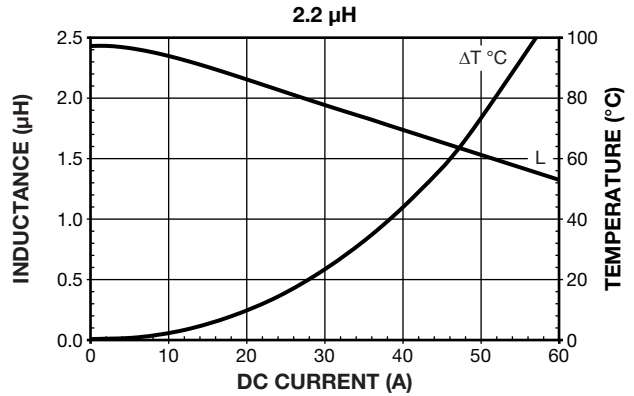
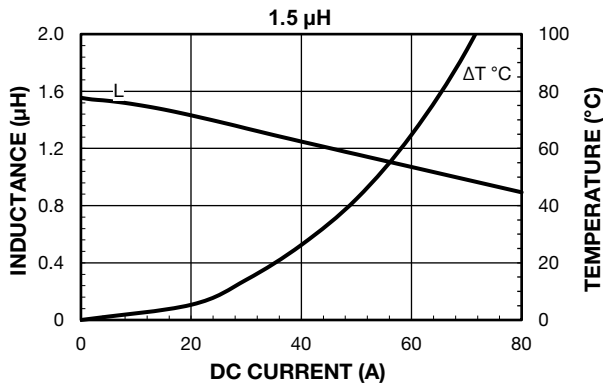
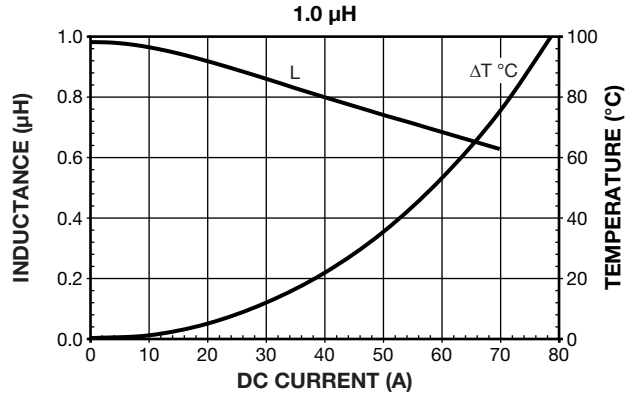
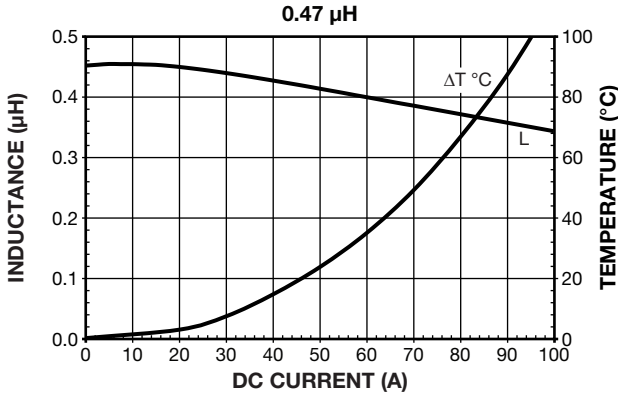
GLOBAL PART NUMBER																	
I	H	L	P	6	7	6	7	G	Z	E	R	2	R	2	M	5	A
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.	SERIES			

PATENT(S): [www.vishay.com/patents](http://www.vishay.com/patents)

This Vishay product is protected by one or more United States and international patents.

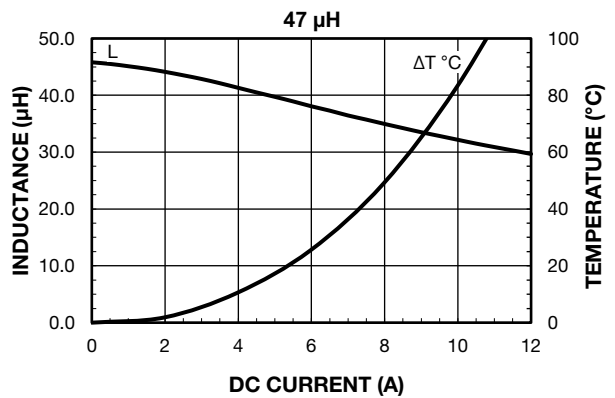
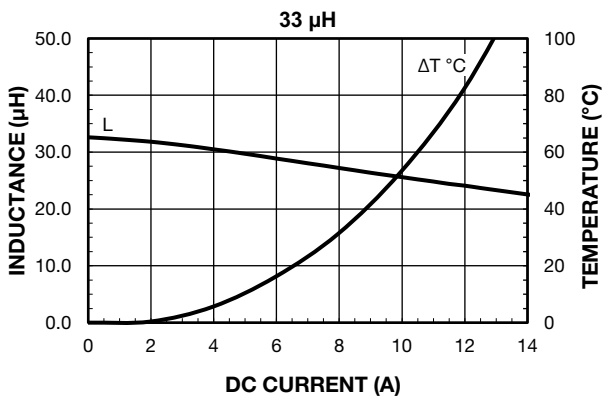
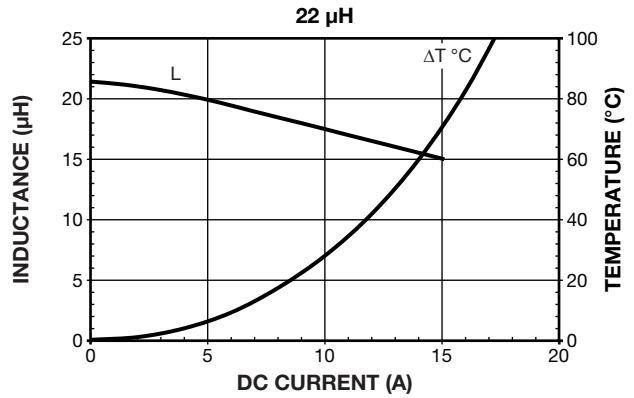
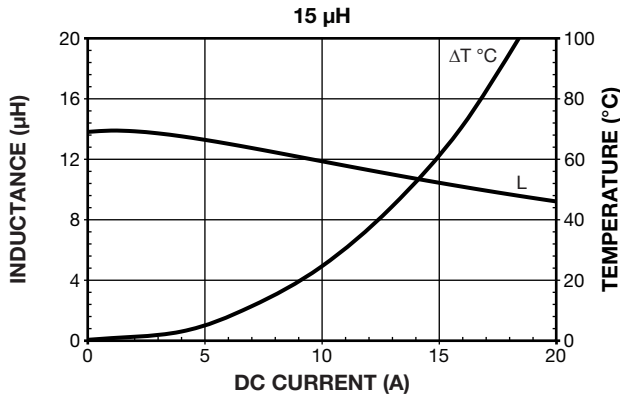
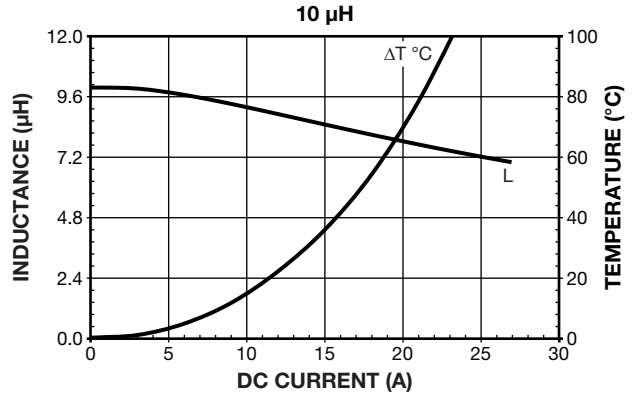
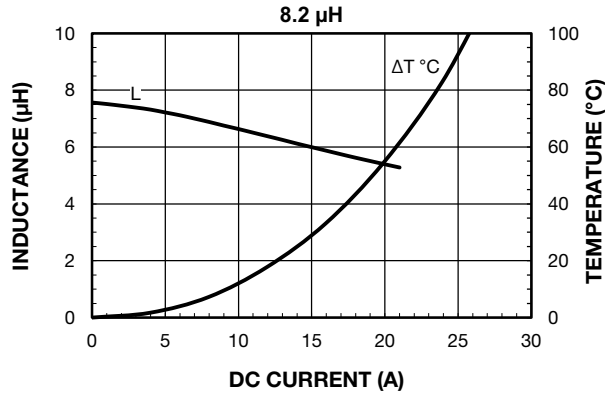


PERFORMANCE GRAPHS

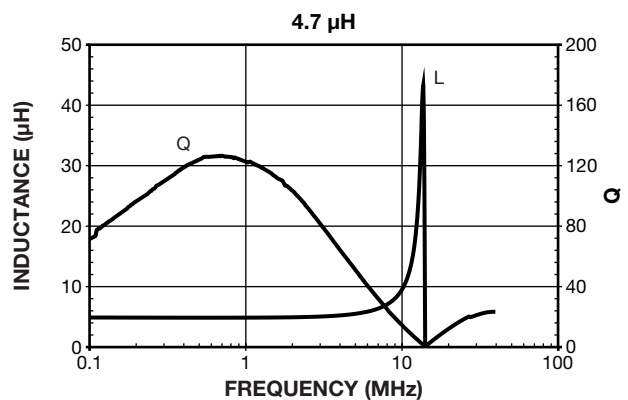
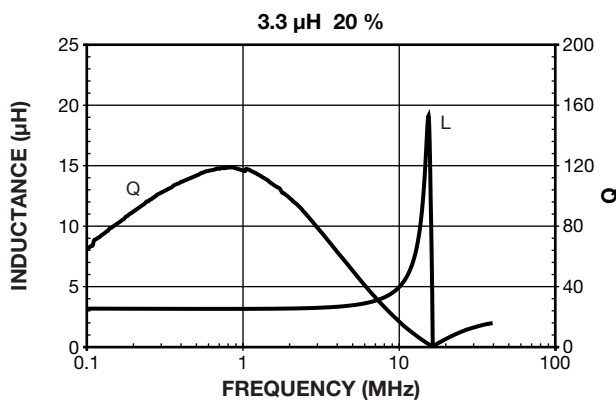
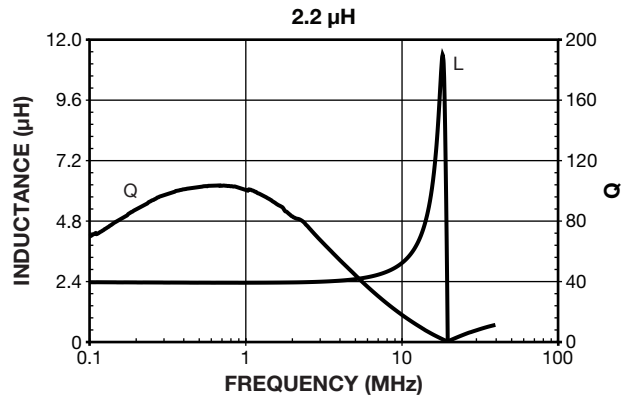
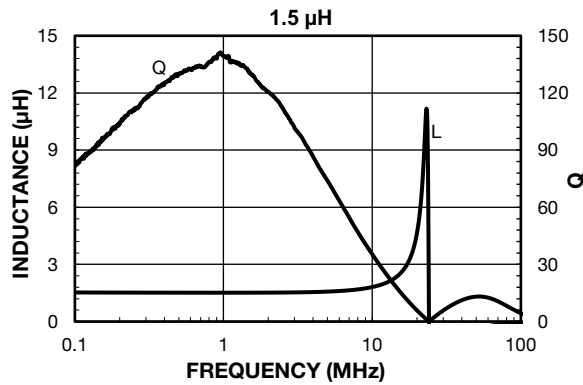
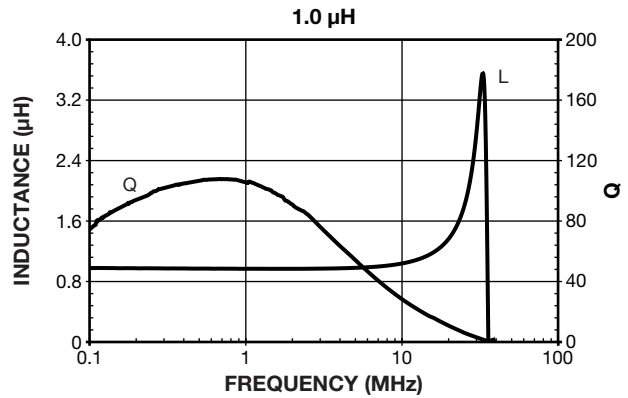
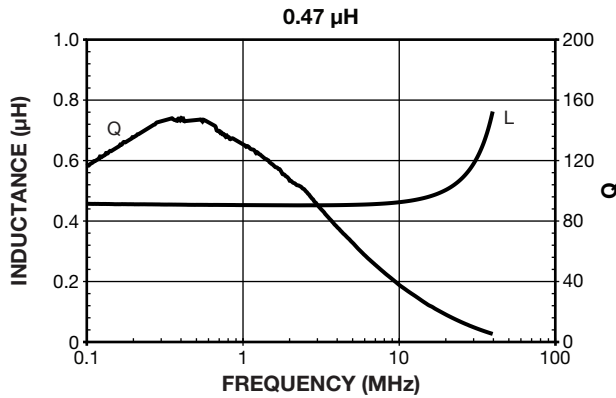




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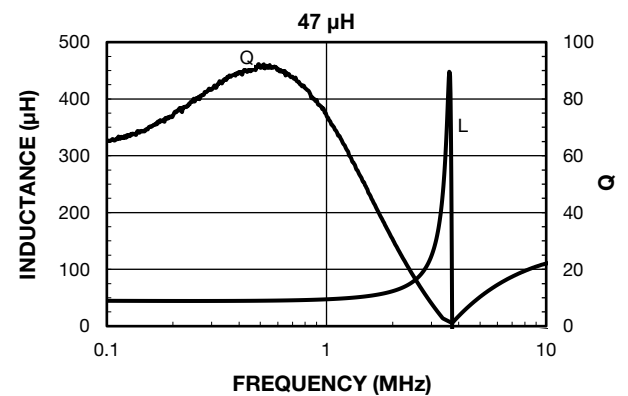
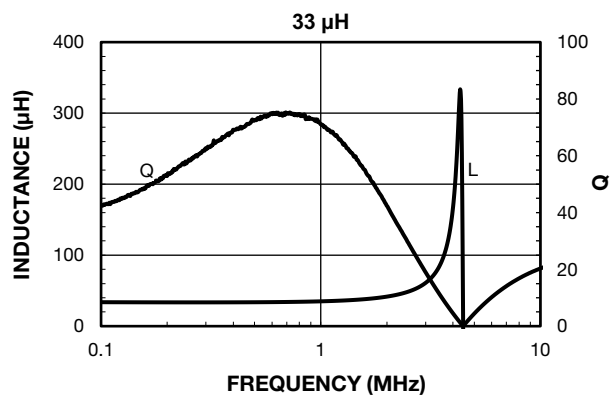
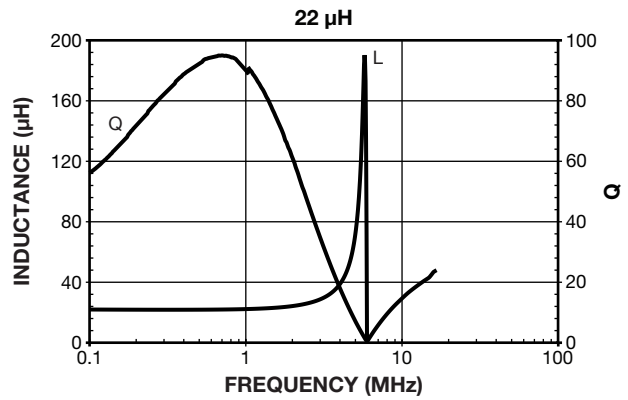
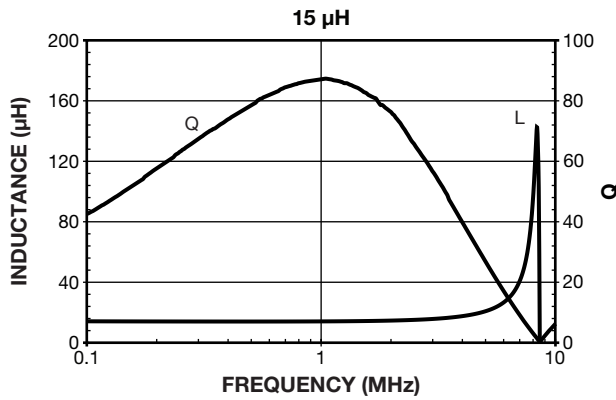
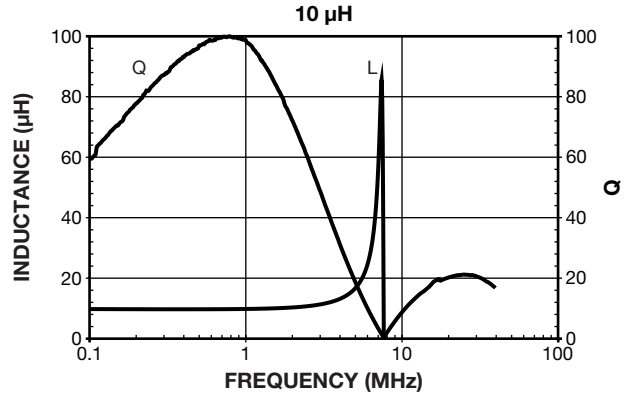
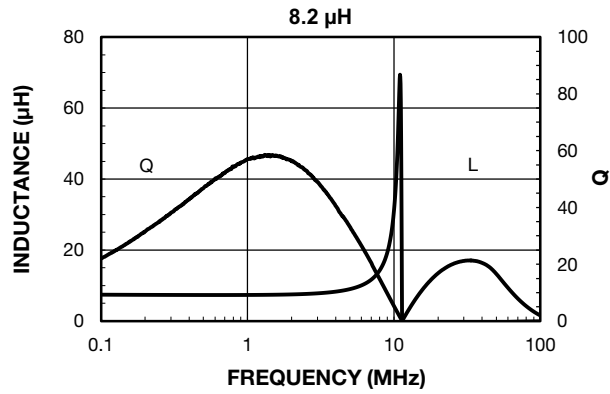


**PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY**





PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





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