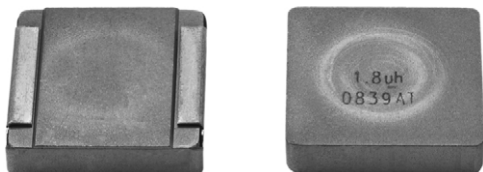


IHLP® Commercial Inductors, Low DCR Series



LINKS TO ADDITIONAL RESOURCES



FEATURES

- Shielded construction
- Frequency range up to 750 kHz
- 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



RoHS
COMPLIANT
HALOGEN
FREE

APPLICATIONS

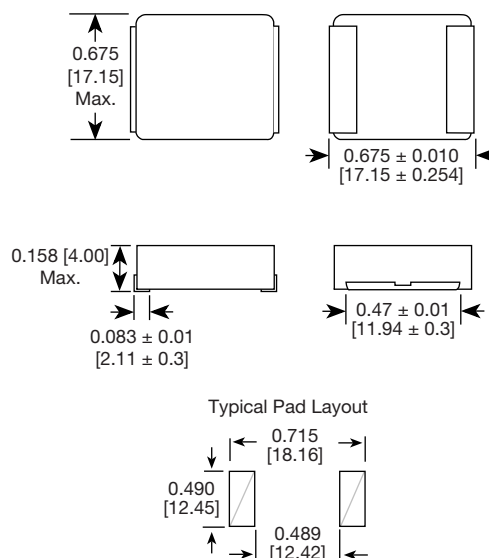
- PDA/notebook/desktop/server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for field programmable gate array (FPGA)

STANDARD ELECTRICAL SPECIFICATIONS				
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT T DC TYP. (A) ⁽¹⁾	SATURATIO N CURRENT DC TYP. (A) ⁽²⁾
1.0	1.86	2.05	41	27.5
1.5	3.12	3.43	31	21
2.2	4.57	5.03	26	17.5
3.3	6.64	7.30	20.5	14
4.7	8.47	9.32	18	12
5.6	11.09	12.20	15	11.5
6.8	12.54	13.79	14.5	10.5
10.0	17.2	18.92	12	8
15.0	27.8	30.58	9	7.5
22.0	42.7	46.97	7.2	6.2
33.0	64.4	70.84	6.5	6
47.0	98.60	108.46	5	4.3

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.
 - Rated operating voltage (across inductor) = 50 V
- ⁽¹⁾ DC current (A) that will cause an approximate ΔT of 40 °C
⁽²⁾ DC current (A) that will cause L₀ to drop approximately 20 %

DIMENSIONS in inches [millimeters]





DESCRIPTION

IHLP-6767DZ-11	4.7 μH	± 20 %	EK	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I H L P	6 7 6 7 D Z	E K	4 R 7	M	1 1
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE	INDUCTANCE TOLERANCE	SERIES
		EK = tape and reel	4R7 = 4.7 μ H	M = ± 20 %	

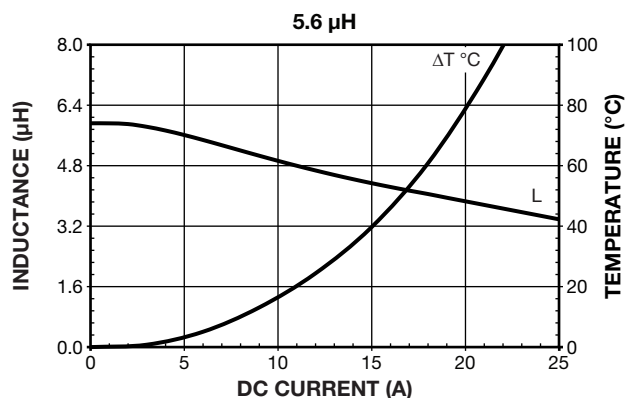
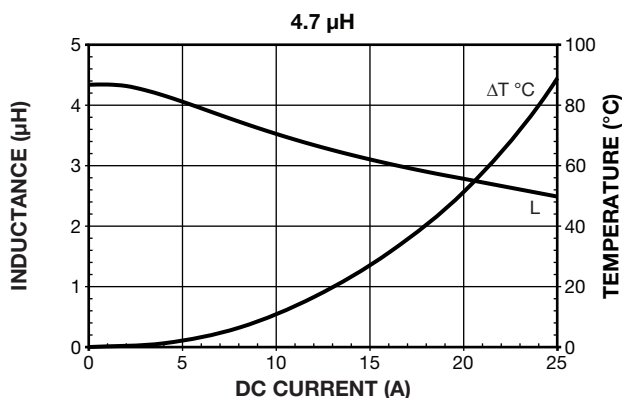
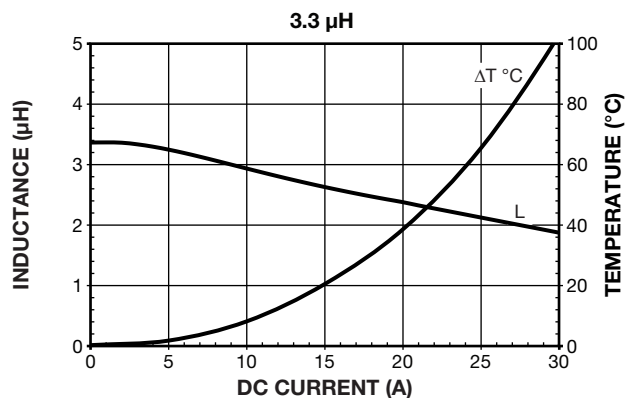
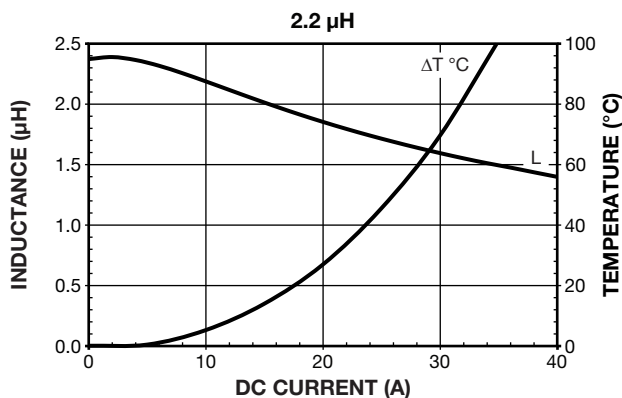
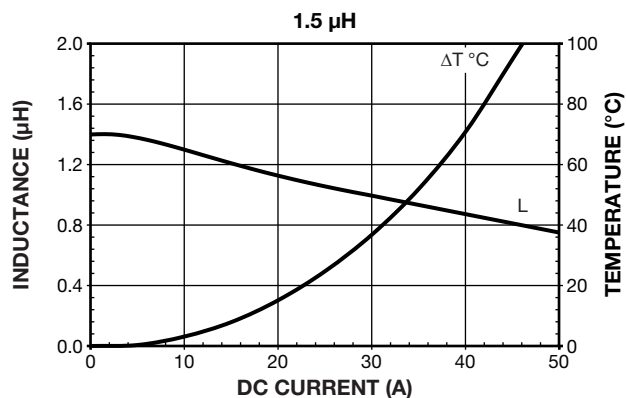
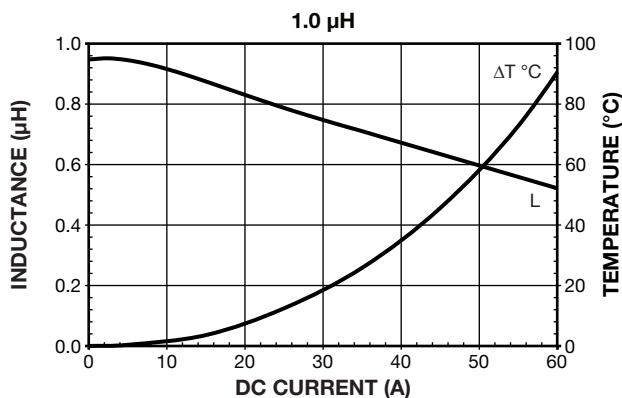
PACKAGE CODE OPTIONS

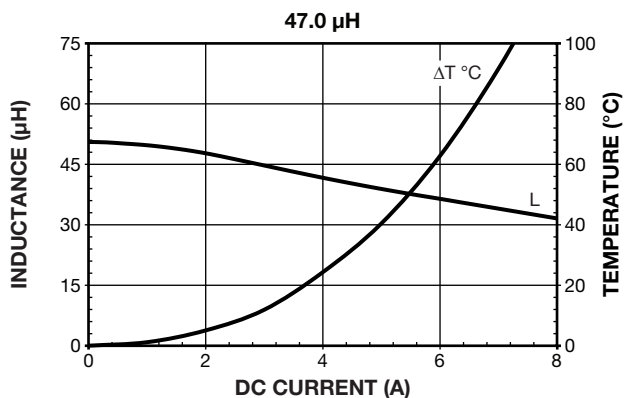
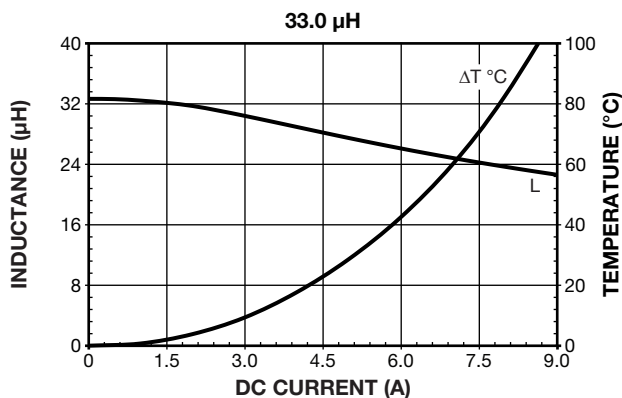
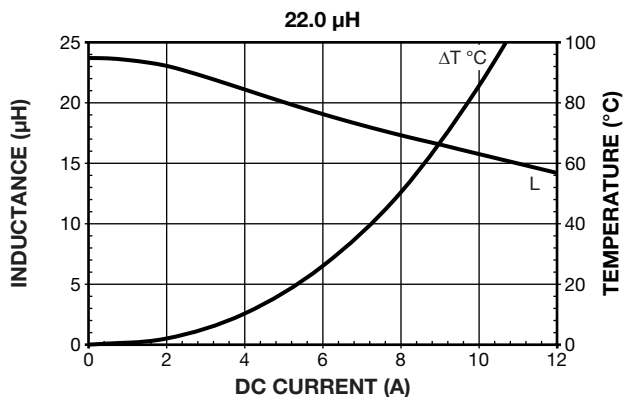
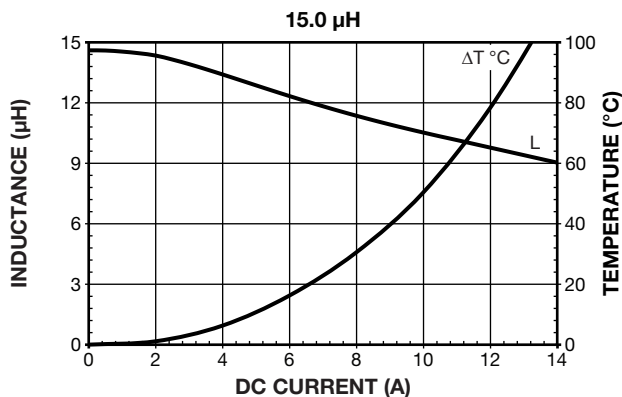
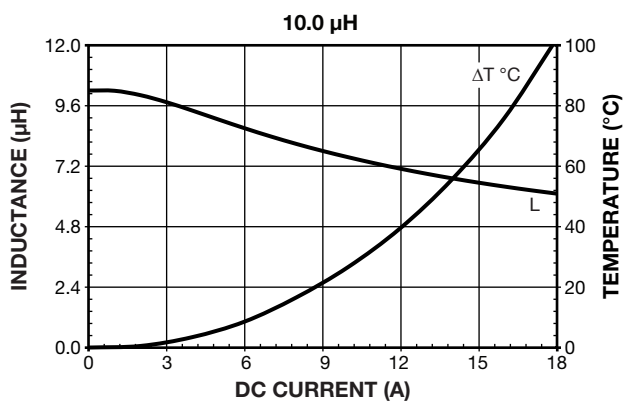
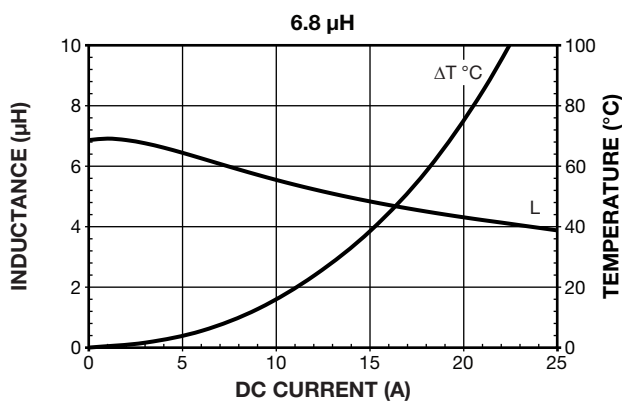
EK = tape and reel packaging (400 pcs on 13-inch reel)

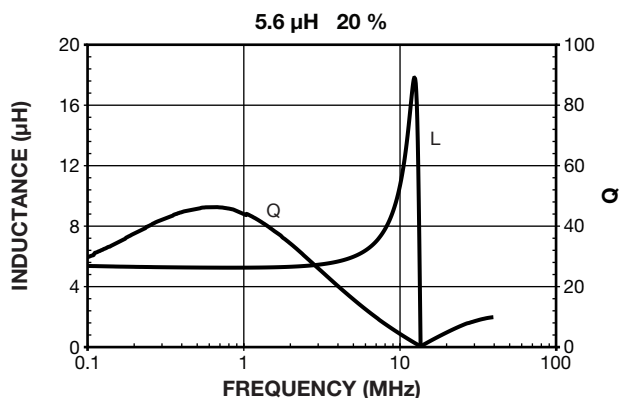
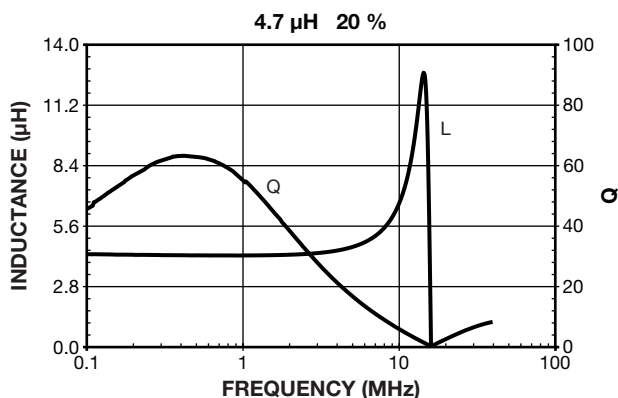
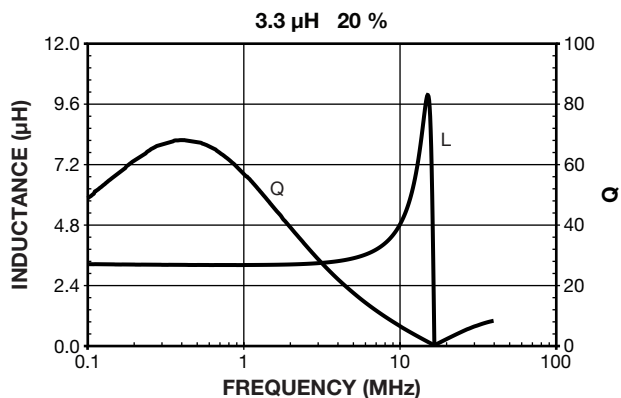
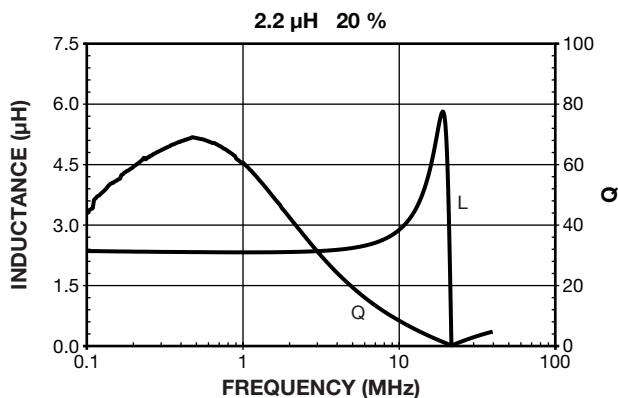
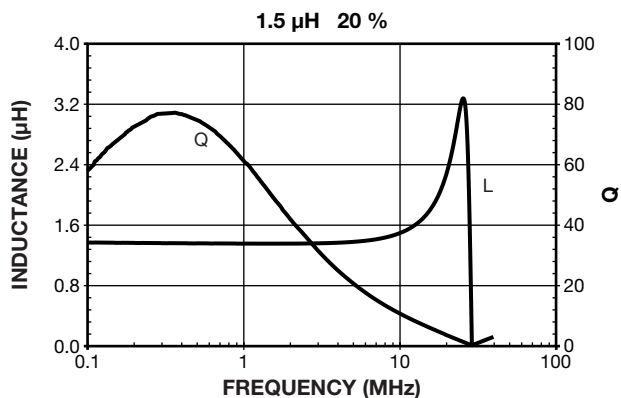
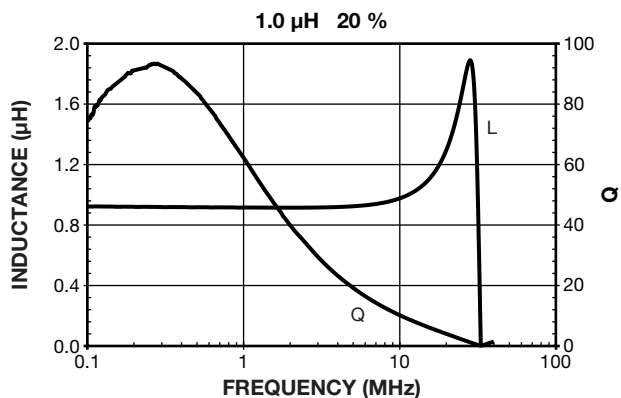
ER = tape and reel packaging (250 pcs on 13-inch reel)

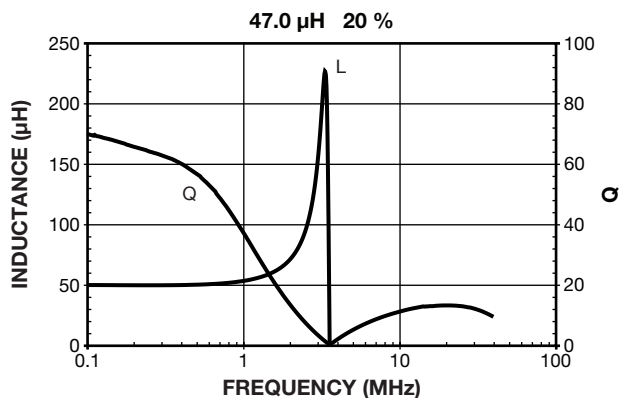
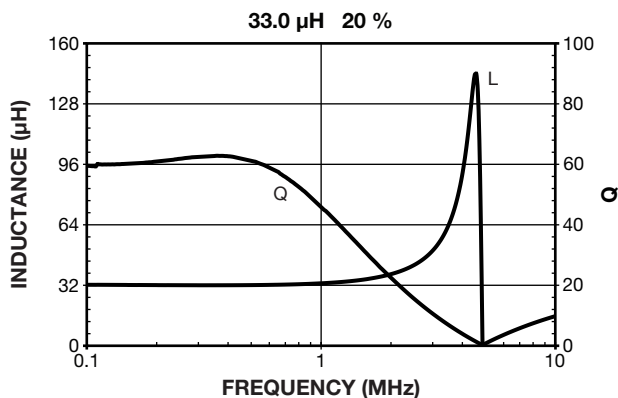
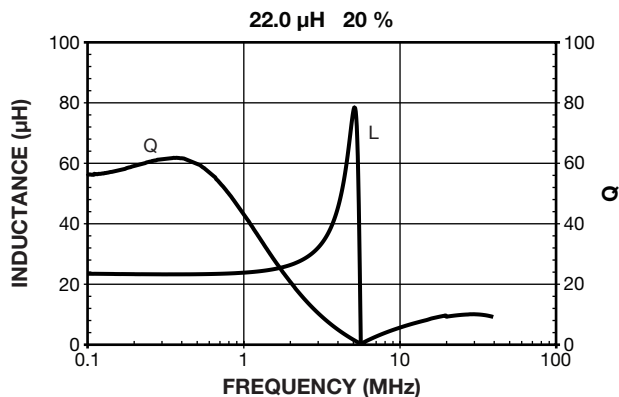
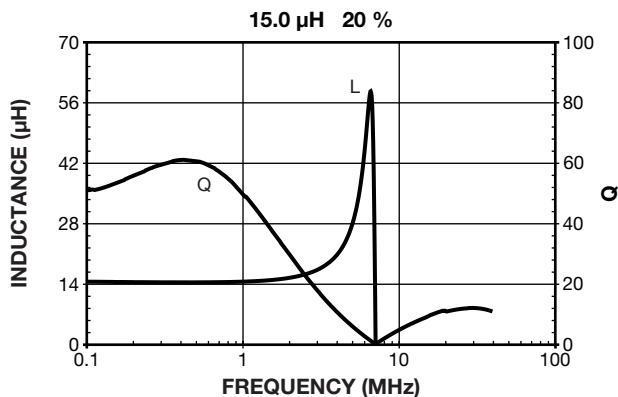
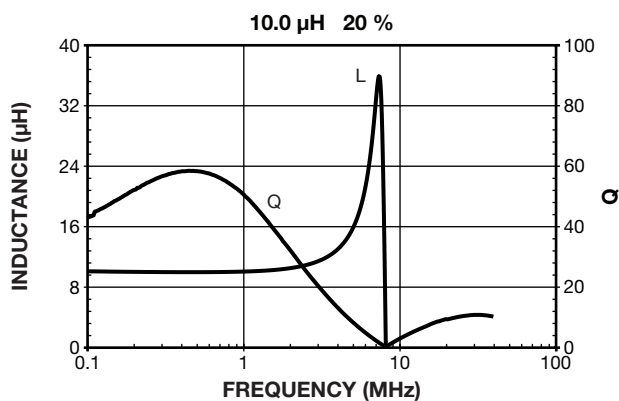
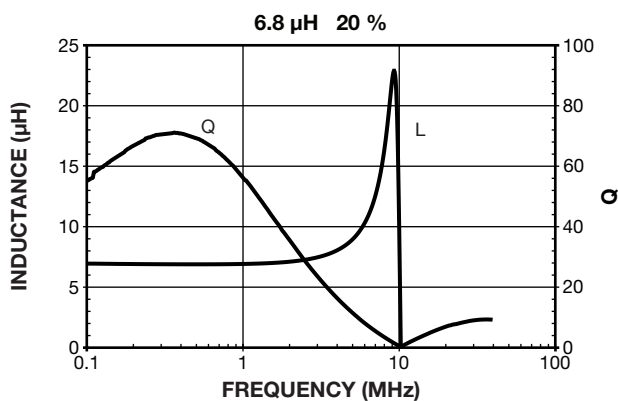
Note

- For additional packaging details see "[Packaging Methods](#)"

PERFORMANCE GRAPHS


PERFORMANCE GRAPHS


PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY


PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY




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