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Vishay Dale

IHLP® Automotive Inductors, High Saturation Series





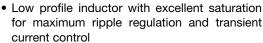
LINKS TO ADDITIONAL RESOURCES







FEATURES





AUTOMOTIVE GRADE

- 5.18 mm x 5.18 mm x 2.0 mm SMD package
- Magnetically shielded construction
- Handles high transient current spikes without saturation
- COMPLIANT
 HALOGEN
 FREE
 GREEN

<u>(5-2008)</u>

RoHS

- AEC-Q200 qualified
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

APPLICATIONS

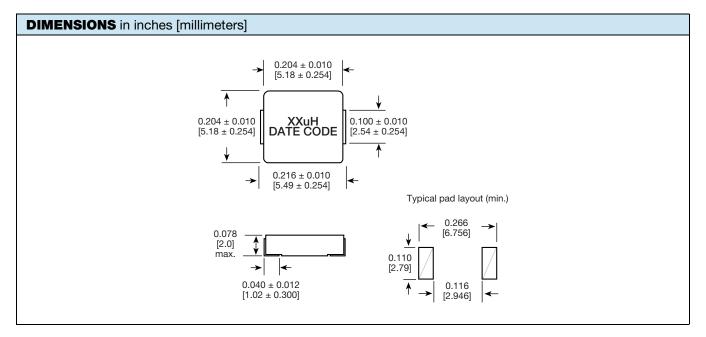
- Automotive domain control units (DCU) and transmission / engine control
- DC/DC converters for infotainment, navigation systems, braking systems, LED lighting
- Power line noise suppression and filtering
- · SSD modules, USB chargers

STANDARD ELECTRICAL SPECIFICATIONS								
PART NUMBER	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 DC TYP. (A) (1)	SATURATION CURRENT DC TYP. (A) ⁽²⁾	SRF TYP. (MHz)		
IHLP2020BZERR10MA1	0.10	3.6	3.9	17.0	45.0	239		
IHLP2020BZERR22MA1	0.22	4.9	5.2	15.0	22.0	145		
IHLP2020BZERR33MA1	0.33	7.6	8.2	12.0	25.0	125		
IHLP2020BZERR47MA1	0.47	8.9	9.4	11.5	21.0	98		
IHLP2020BZERR68MA1	0.68	11.2	12.4	10.0	15.0	77		
IHLP2020BZER1R0MA1	1.0	18.9	20.0	7.0	16.0	62		
IHLP2020BZER2R2MA1	2.2	45.6	50.1	4.2	9.5	39		
IHLP2020BZER3R3MA1	3.3	79.2	85.5	3.3	8.5	30		
IHLP2020BZER4R7MA1	4.7	108.0	116.6	2.8	5.0	28		
IHLP2020BZER5R6MA1	5.6	113.0	122.0	2.5	4.5	24		
IHLP2020BZER6R8MA1	6.8	139.0	150.0	2.4	4.3	21		

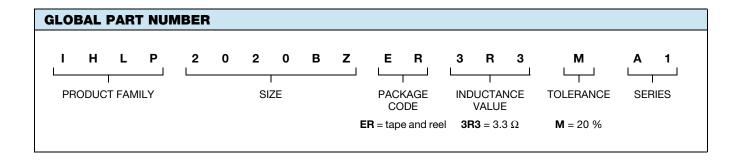
Notes

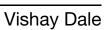
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component
 placement, PCB trace size and thickness, airflow and other cooling provisions 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 %



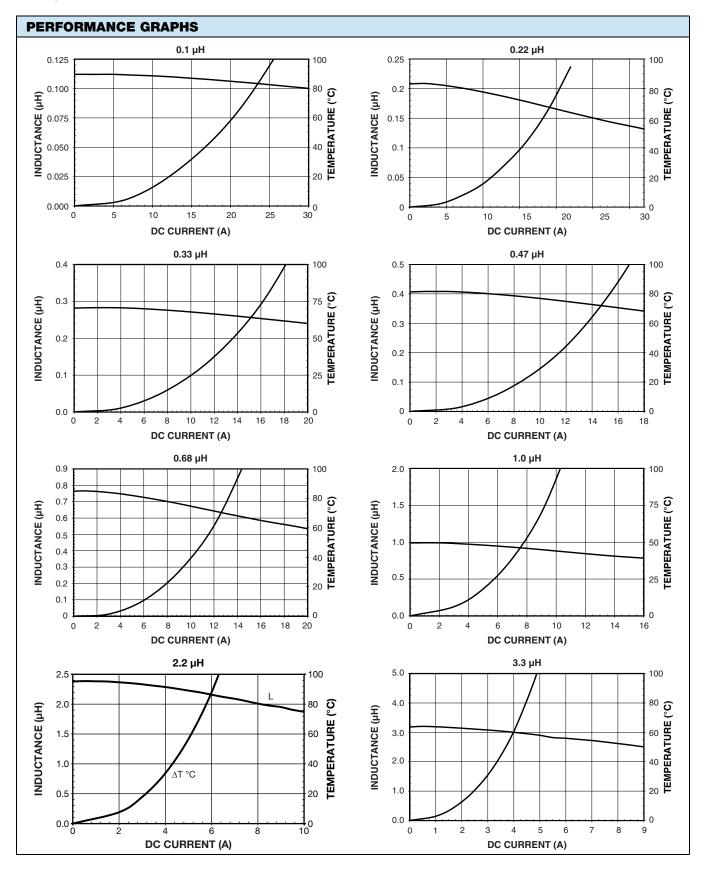


DESCRIPTION								
IHLP-2020BZ-A1	3.3 µH	± 20 %	ER	e3				
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD				

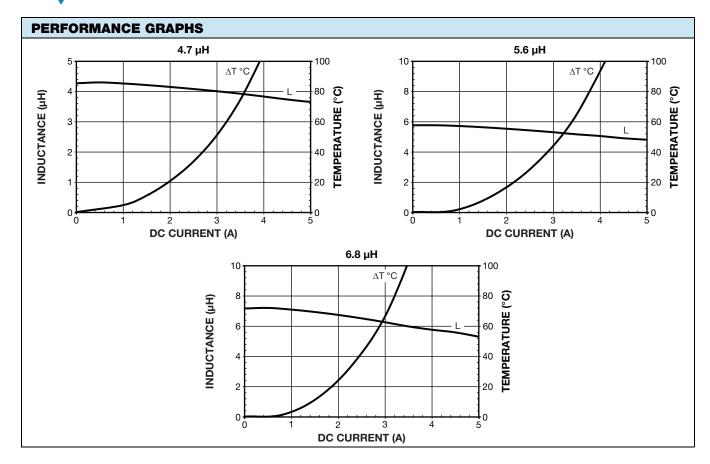


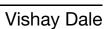




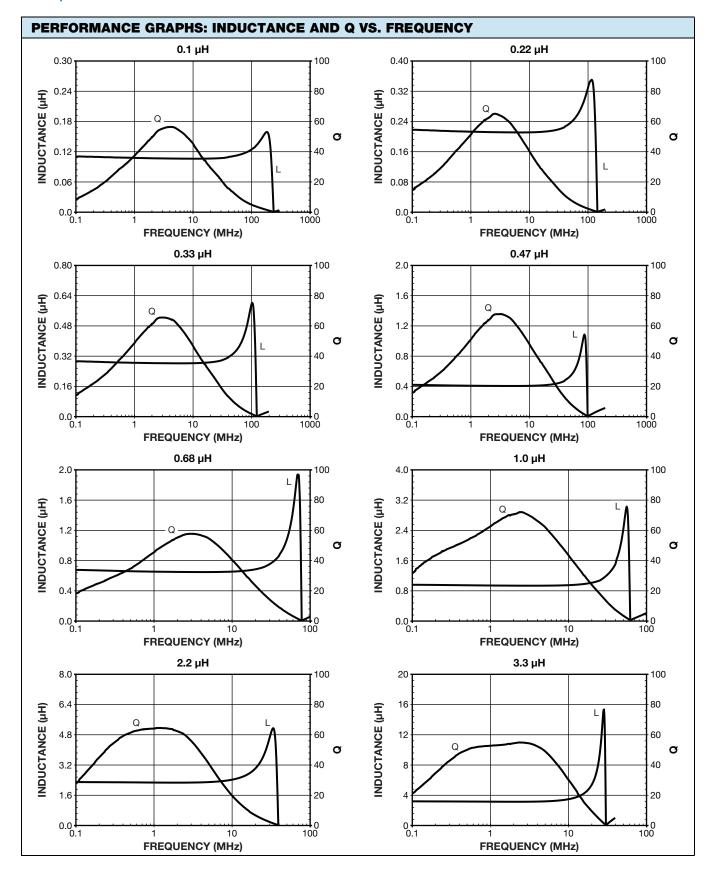


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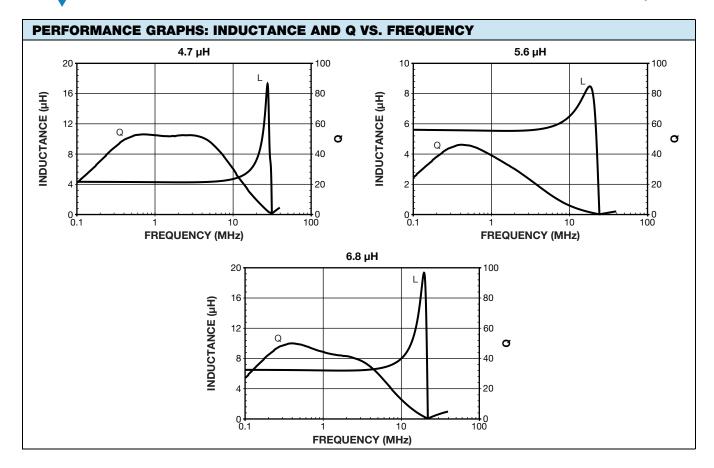








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