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Vishay Dale

## IHLP® Inductors, High Saturation Series





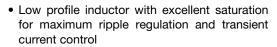
# **LINKS TO ADDITIONAL RESOURCES**







#### **FEATURES**





RoHS COMPLIANT

**HALOGEN** FREE **GREEN** 

(5-2008)

- · Magnetically shielded construction
- · Handles high transient current spikes without saturation

• 5.18 mm x 5.18 mm x 2.0 mm SMD package

• Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

#### **APPLICATIONS**

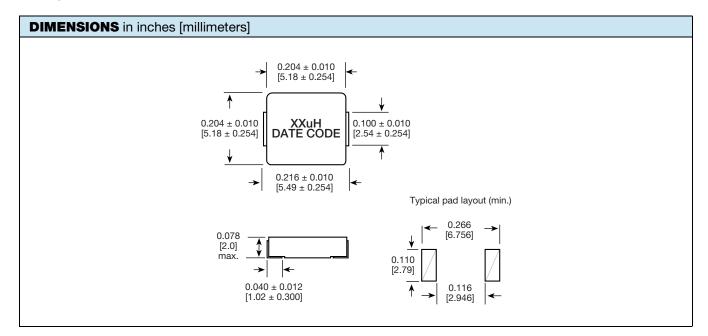
- DC/DC converters
- Power line noise suppression and filtering
- SSD modules, USB chargers

STANDARD ELECTRICAL SPECIFICATIONS								
PART NUMBER	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) (1)	SATURATION CURRENT DC TYP. (A) (2)	SRF TYP. (MHz)		
IHLP2020BZERR10M01	0.10	3.6	3.9	17.0	45.0	239		
IHLP2020BZERR22M01	0.22	4.9	5.2	15.0	22.0	145		
IHLP2020BZERR33M01	0.33	7.6	8.2	12.0	25.0	125		
IHLP2020BZERR47M01	0.47	8.9	9.4	11.5	21.0	98		
IHLP2020BZERR68M01	0.68	11.2	12.4	10.0	15.0	77		
IHLP2020BZER1R0M01	1.0	18.9	20.0	7.0	16.0	62		
IHLP2020BZER2R2M01	2.2	45.6	50.1	4.2	9.5	39		
IHLP2020BZER3R3M01	3.3	79.2	85.5	3.3	8.5	30		
IHLP2020BZER4R7M01	4.7	108.0	116.6	2.8	5.0	28		
IHLP2020BZER5R6M01	5.6	113.0	122.0	2.5	4.5	24		
IHLP2020BZER6R8M01	6.8	139.0	150.0	2.4	4.3	21		
IHLP2020BZER100M01	10	184.0	199.0	2.3	4.0	20		

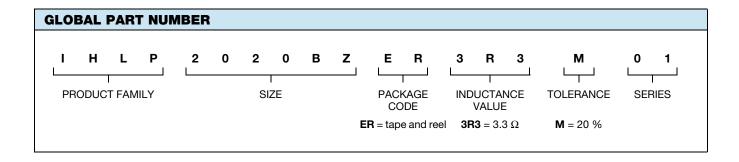
#### **Notes**

- 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 L<sub>0</sub> to drop approximately 20 %



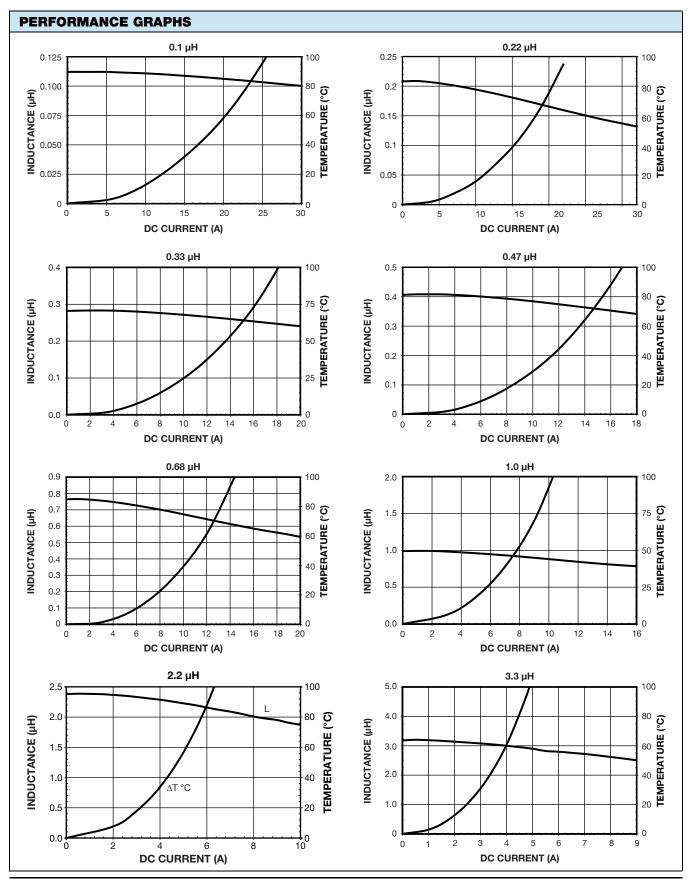


DESCRIPTION							
IHLP-2020BZ-01	3.3 µH	± 20 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD			

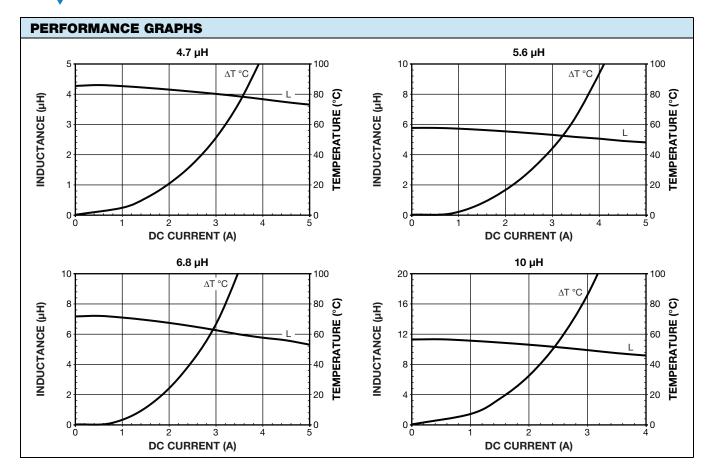




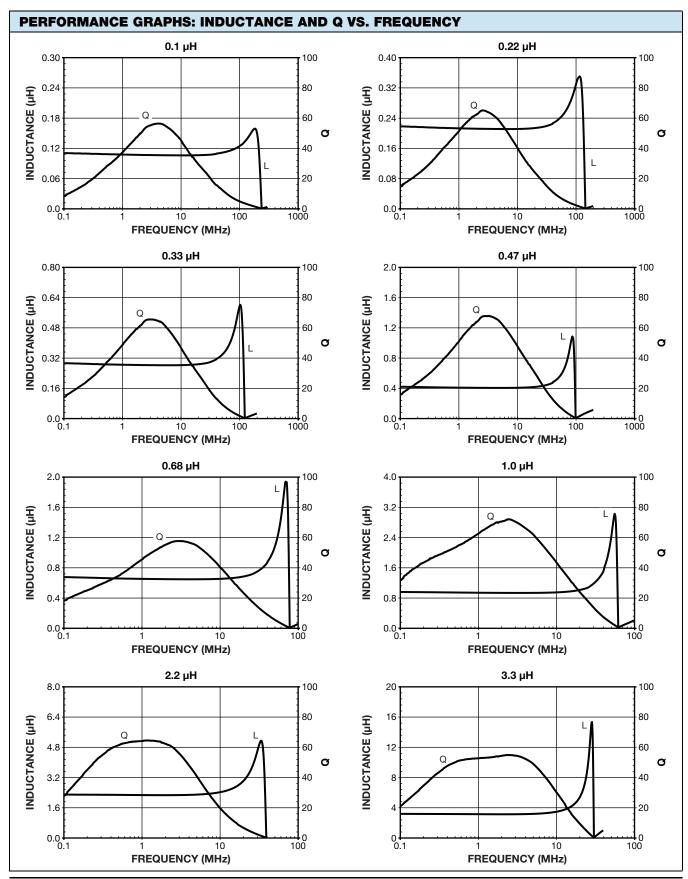
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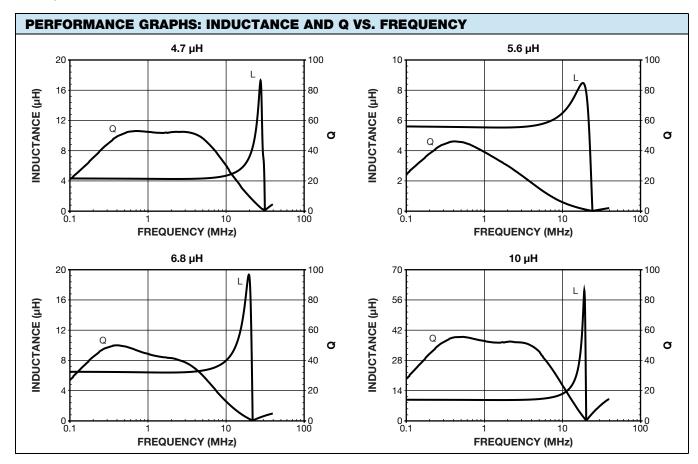








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