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RoHS

COMPLIANT

HALOGEN

FREE

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



### LINKS TO ADDITIONAL RESOURCES

	6
3	6
3D Models	Desig

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)			
0.22	1.51	1.62	36.0	24.0	151			
0.33	2.22	2.38	27.0	18.0	101			
0.47	2.54	2.72	24.0	18.0	69			
0.68	3.73	3.99	20.0	15.2	59			
0.82	4.55	4.87	18.5	15.0	53			
1.0	6.07	6.49	16.0	14.8	51			
1.5	8.29	9.94	12.5	11.3	35			
2.2	13.70	14.70	10.4	10.4	30			
4.7	26.70	28.60	7.6	5.4	21			
6.8	35.30	37.80	6.5	5.0	17			
8.2	43.60	46.70	5.9	4.2	16			
10	51.50	55.10	5.3	3.8	12			
15	79.70	85.30	4.3	3.8	11			
22	123.0	132.0	3.6	2.8	7.7			
33	166.0	177.0	3.1	2.1	5.6			

#### Notes

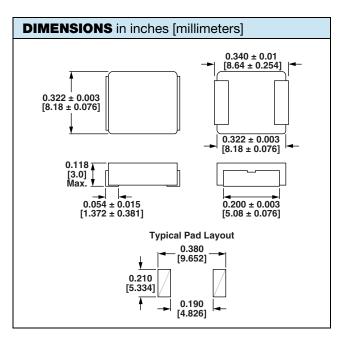
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions 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  $\Delta T$  of 40  $^{\circ}C$
- $^{(2)}\,$  DC current (A) that will cause  $L_0$  to drop approximately 20 %

### FEATURES

- 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)
- Operating temperature up to 125 °C
- 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 <u>www.vishay.com/doc?99912</u>

#### APPLICATIONS

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



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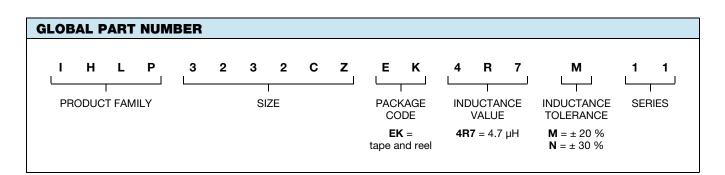
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### IHLP3232CZ-11

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### DESCRIPTION

	-			
IHLP3232CZ-11	4.7 µH	± 20 %	EK	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC <sup>®</sup> LEAD (Pb)-FREE STANDARD



#### **PACKAGE CODE OPTIONS**

EK = tape and reel packaging (1500 pcs on 13-inch reel)

ER = tape and reel packaging (1000 pcs on 13-inch reel)

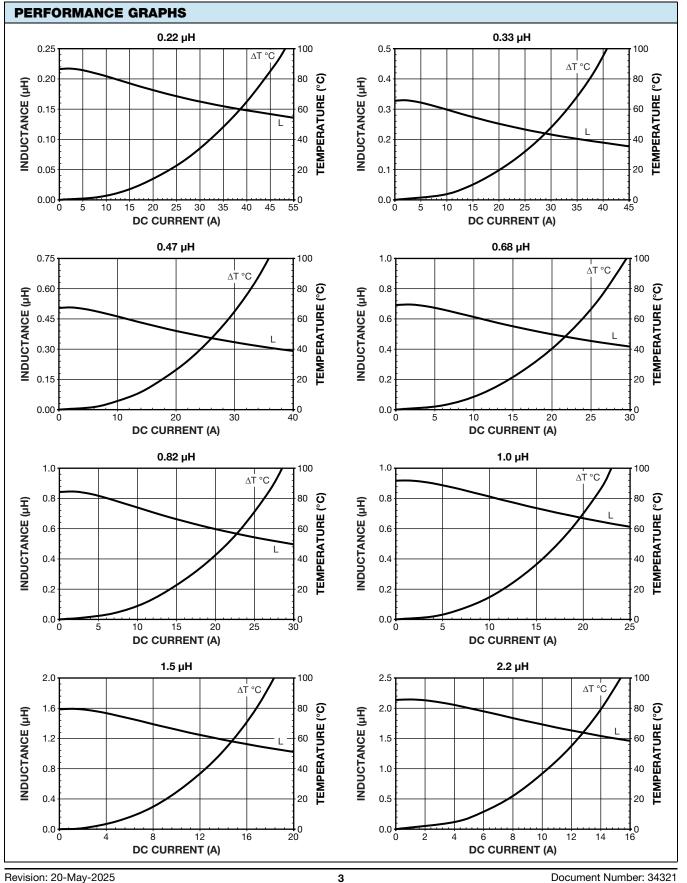
Note

For additional packaging details see "<u>Packaging Methods</u>"

## IHLP3232CZ-11



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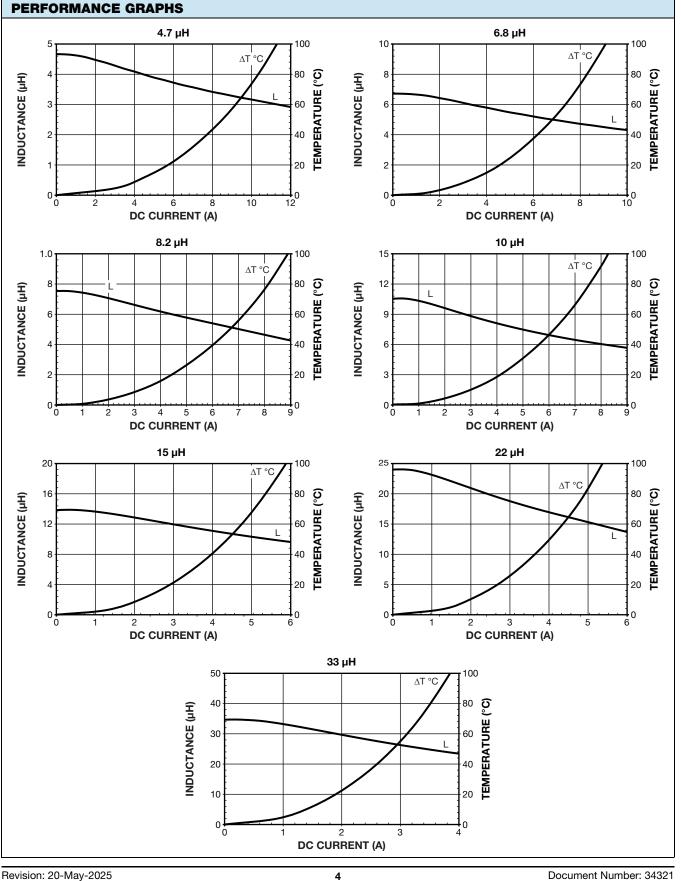
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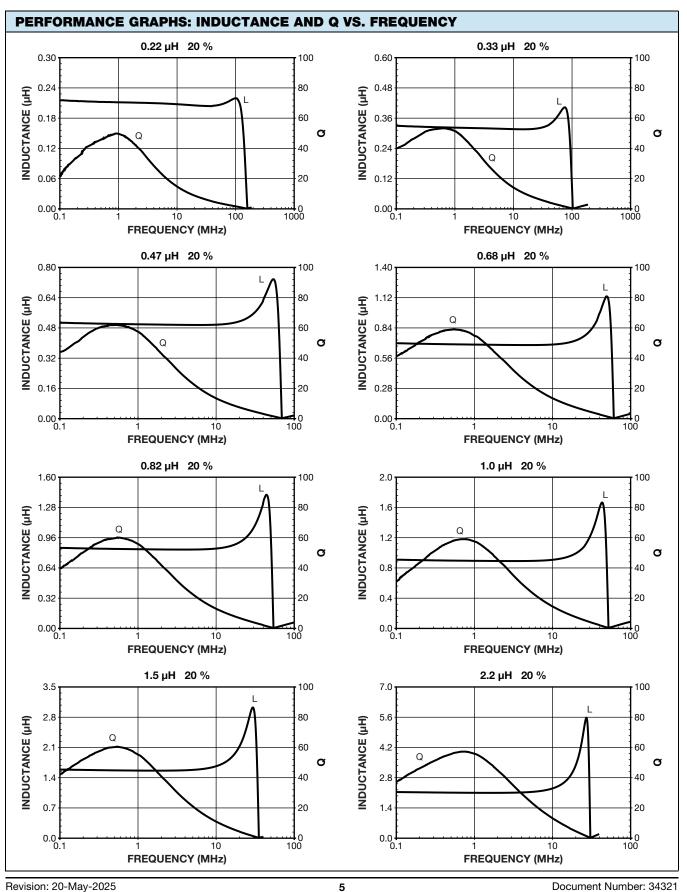
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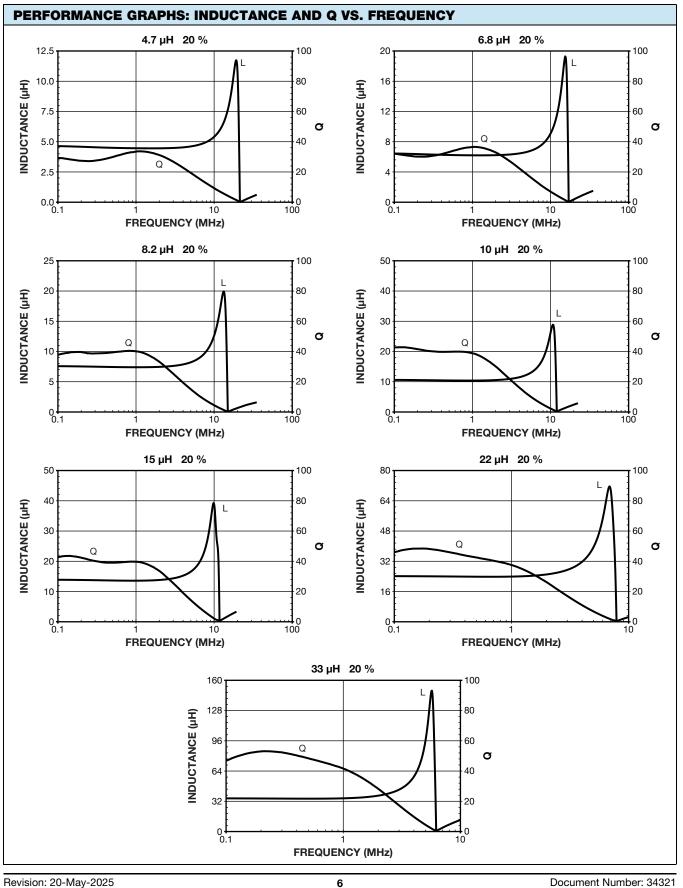
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