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# IHLP-3232DZ-5A

Vishay Dale

# IHLP<sup>®</sup> Automotive Inductors, High Temperature (155 °C) Series

### LINKS TO ADDITIONAL RESOURCES



### FEATURES

- Magnetically shielded construction
- Operating temperature up to 155 °C
- 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
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

### **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 blower / HID lighting
- LED drivers

STANDARD ELEC	TRICAL SPECIFI	CATIONS					
	L <sub>0</sub> INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A	DCR TYP. 25 °C	DCR MAX. 25 °C	HEAT RATING CURRENT DC TYP.	SATURATIO DC (/	SRF TYP.	
PART NUMBER	(µĤ)	<b>(m</b> Ω)	<b>(m</b> Ω)	(A) <sup>(1)</sup>	20 % DROP (2)	30 % DROP (3)	(MHz)
IHLP3232DZERR22M5A	0.22	1.68	1.86	36	32	44	117
IHLP3232DZERR47M5A	0.47	2.38	2.55	27	19	24	77
IHLP3232DZERR68M5A	0.68	3.3	3.53	21.5	12	17	51
IHLP3232DZERR82M5A	0.82	3.7	4	20	15	22	49
IHLP3232DZER1R0M5A	1.0	4.58	4.9	19	15	22	45
IHLP3232DZER1R5M5A	1.5	6.78	7.25	15.5	14	20	35
IHLP3232DZER2R2M5A	2.2	11.7	12.5	11.5	14	20	32
IHLP3232DZER3R3M5A	3.3	15.4	16.48	10.6	11.8	16	23
IHLP3232DZER4R7M5A	4.7	26.6	28.46	7.2	9.1	12	18
IHLP3232DZER5R6M5A	5.6	29.6	31.67	6.9	9	12	18
IHLP3232DZER6R8M5A	6.8	33.5	35.9	6.8	6.3	9.2	15.3
IHLP3232DZER100M5A	10	50	53.5	5.1	5.2	7	13
IHLP3232DZER150M5A	15	62	66.34	4.8	3.6	4.5	10
IHLP3232DZER220M5A	22	103	110.21	3.7	3.8	5	9
IHLP3232DZER330M5A	33	149	159.43	3.1	3.2	4.2	6.1

### 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
- <sup>(1)</sup> DC current (A) that will cause an approximate  $\Delta T$  of 40 °C
- $^{(2)}$  DC current (A) that will cause  $L_0$  to drop approximately 20 %
- $^{(3)}$  DC current (A) that will cause  $L_0$  to drop approximately 30 %

#### PATENT(S): <u>www.vishay.com/patents</u> This Vishay product is protected by one or more United States and international patents.

Revision: 19-Sep-2023

Document Number: 34336

AUTOMOTIVE GRADE

> RoHS COMPLIANT HALOGEN FREE GREEN (5-2008)

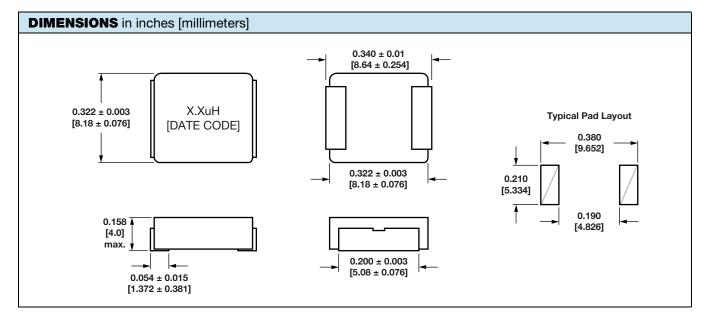
## For Higher Temperature Upgrade to IHLP-3232DZ-8A



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IHLP-3232DZ-5A

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DESCRIPTION											
IHLP-3232DZ-5A	10 µH	± 20 %	ER	E3							
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC <sup>®</sup> LEAD (Pb)-FREE STANDARD							

GLOBAL PART NUMBER																			
I	н	L	Р	3	2	3	2	D	z	E	R		1	0	0	<b>M</b> L		5	A
PRODUCT FAMILY					SI	ZE				KAGE ODE		INDU V	ictai Alue	-	INDUCTAN TOLERAN		SER	IES	
										ER = tap	be and r	eel	100	= 10	μH	<b>M</b> = ± 20	%		

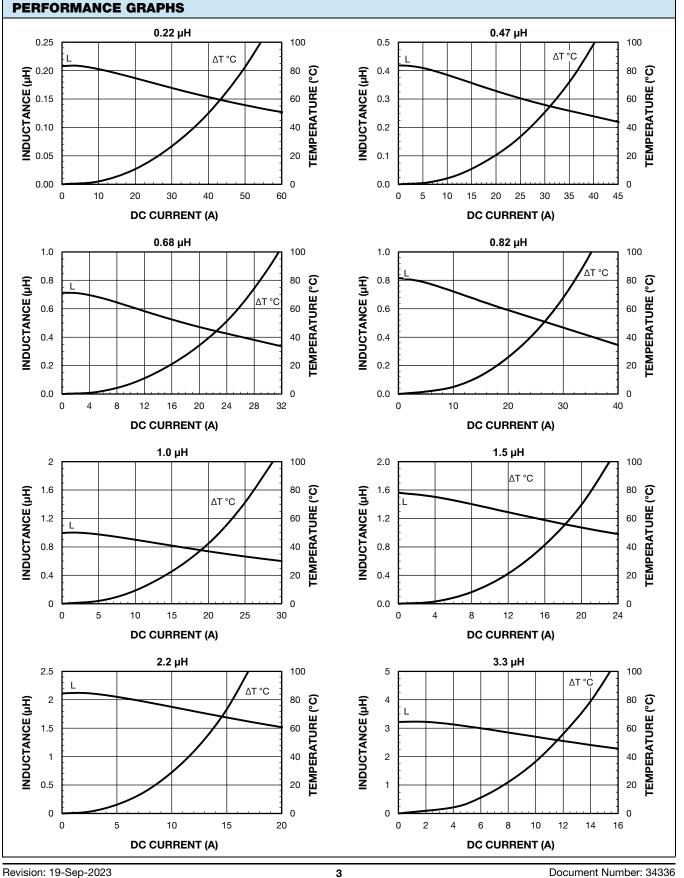
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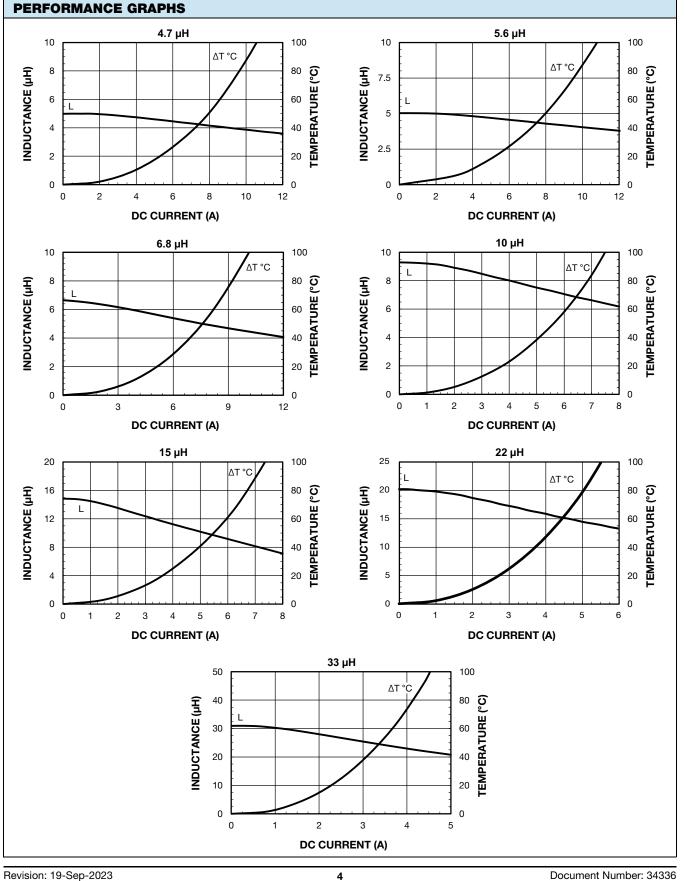
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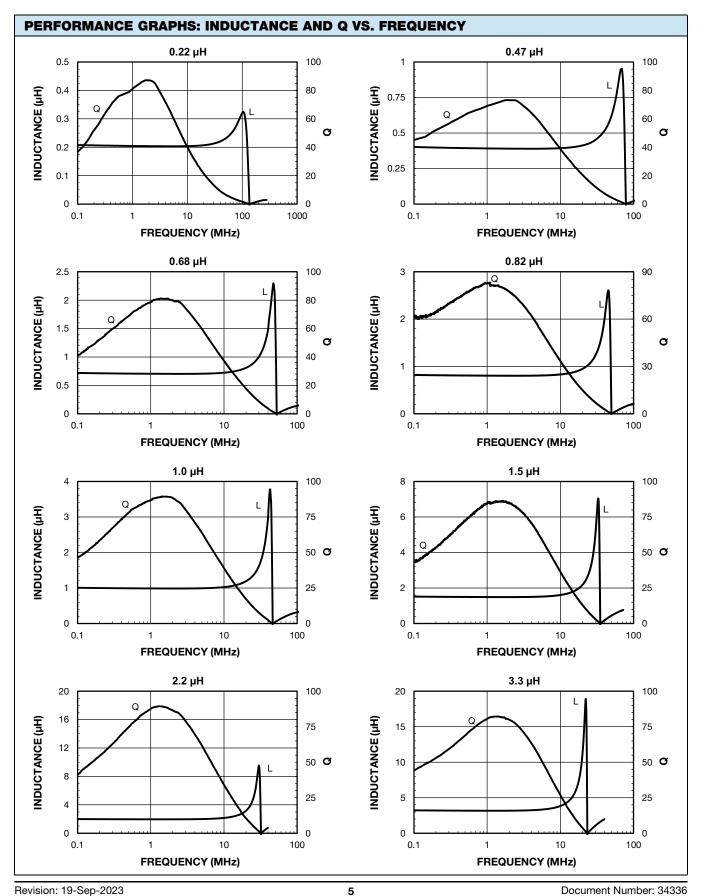
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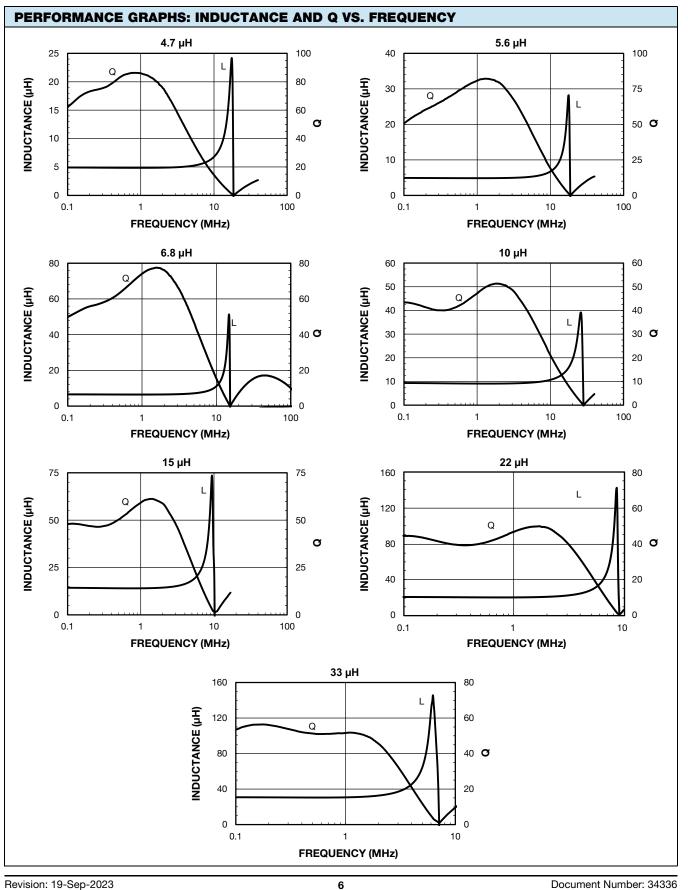
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Revision: 01-Jan-2025

1