

Vishay Dale

RoHS

COMPLIANT

HALOGEN

GREEN

(5-2008)

IHLP[®] Commercial Inductors, High Temperature (155 °C) Series



LINKS TO ADDITIONAL RESOURCES



FEATURES

- 19.10 mm x 19.05 mm x 7.0 mm size
- High temperature up to 155 °C
- Magnetically shielded iron alloy construction
- Handles high transient current spikes without saturation
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

APPLICATIONS

- GaN switching converters
- DC/DC conversion and filtering
- Drivers for LED lighting and audio
- 5G telecommunications equipment

STANDARD ELECTRICAL SPECIFICATIONS											
	L ₀ 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	(μH)	(m Ω)	(mΩ)	(A) ⁽¹⁾	(A) ⁽²⁾	(A) ⁽³⁾	(MHz)				
IHLP7575GZERR56M51	0.56	1.02	1.09	61	70	101	50.0				
IHLP7575GZER1R0M51	1.0	1.25	1.34	55	56	81	31.5				
IHLP7575GZER1R5M51	1.5	1.51	1.62	48	44	63	23.0				
IHLP7575GZER3R3M51	3.3	3.12	3.34	36	28	41	12.3				
IHLP7575GZER8R2M51	8.2	7.23	7.74	20.7	23.1	33	8.7				
IHLP7575GZER100M51	10	9.31	9.96	18.7	21.6	31.1	8.4				
IHLP7575GZER330M51	33	25.2	27.0	10.2	9.9	14.3	4.4				

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, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be
 verified in the end application
- ⁽¹⁾ DC current (A) that will cause an approximate ΔT 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 %

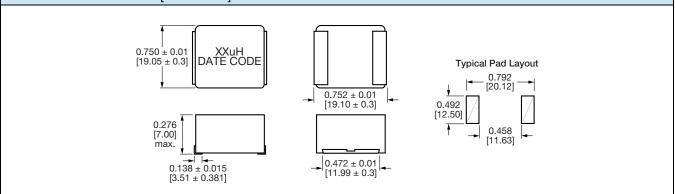
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IHLP-7575GZ-51

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DIMENSIONS in inches [millimeters]



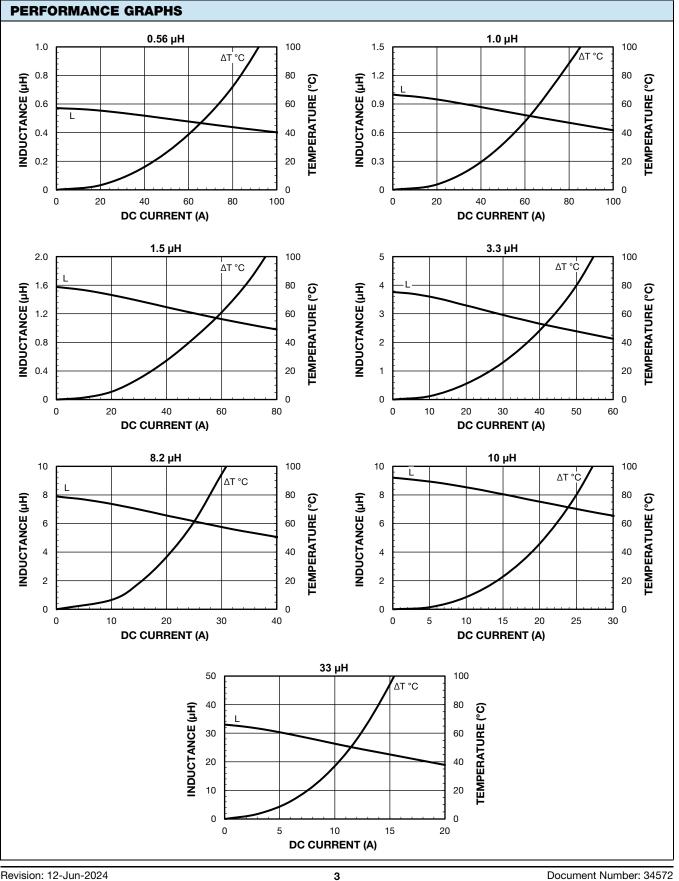
DESCRIPTION											
IHLP-7575GZ-51	1.0 μH	± 20 %	ER	e3							
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC [®] LEAD (Pb)-FREE STANDARD							

GLOBAL PART NUMBER																
і н	L	Р	7	5	7	5	G	z	E	R	1	R	0	M	5	1
PRODUCT FAMILY				SI	ZE			PACKA COD			UCTAI VALUE	-	 TANCE	SEF	RIES	
									ER tape and		1R	0 = 1.0	μH	20 % 30 %		

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Revision: 12-Jun-2024

For technical questions, contact: magnetics@vishay.com

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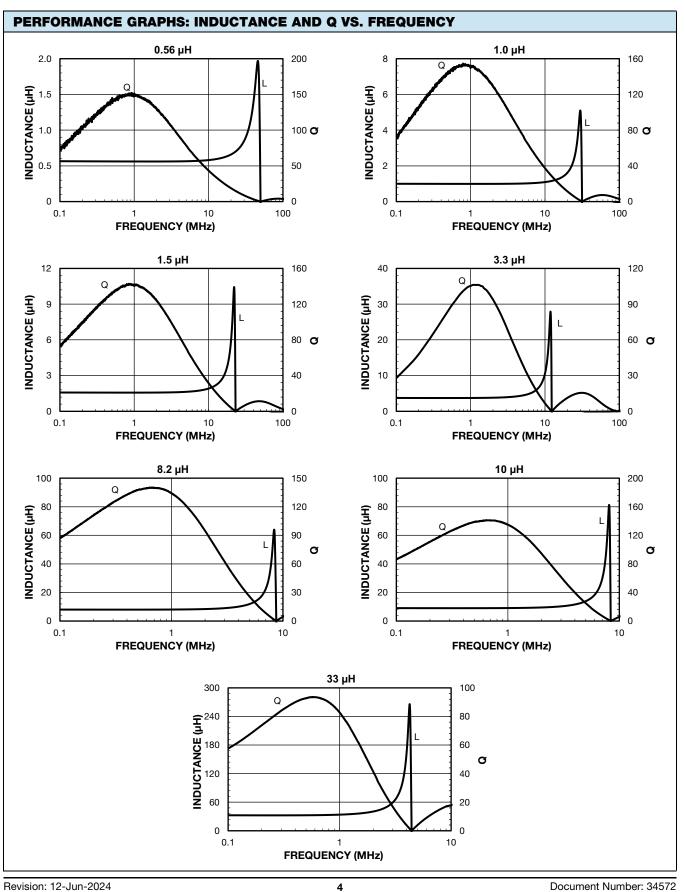
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