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Vishay Dale

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>



RoHS COMPLIANT

HALOGEN FREE GREEN (5-2008)

APPLICATIONS

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

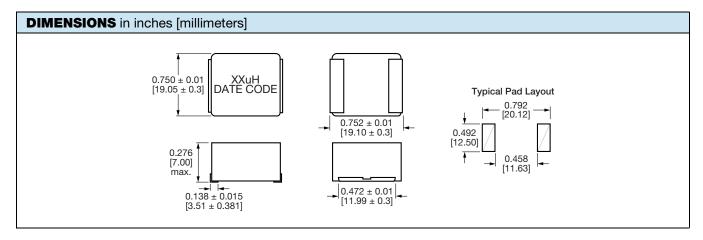
STANDARD ELECTRICAL SPECIFICATIONS							
	L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A	DCR TYP.	DCR MAX. 25 °C	HEAT RATING CURRENT DC TYP.	DC TVD		SRF TYP.
PART NUMBER	(μΗ)	$(m\Omega)$	$(m\Omega)$	(A) ⁽¹⁾	(A) ⁽²⁾	(A) ⁽³⁾	(MHz)
IHLP7575GZERR56M51	0.56	1.02	1.09	61	70	101	50.0
IHLP7575GZER1R0M51	1.0	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

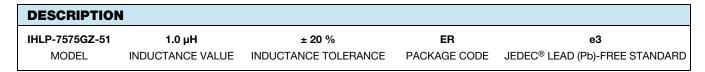
Notes

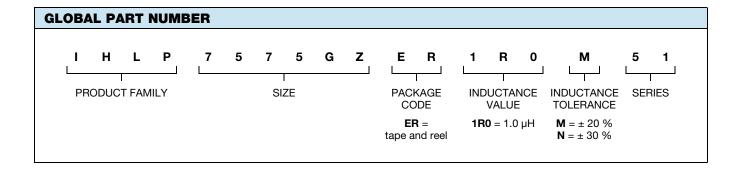
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +155 °C
- The part temperature (ambient + temp. rise) should not exceed 155 °C under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions 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 $^{\circ}C$
- $^{(2)}\,$ 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 %



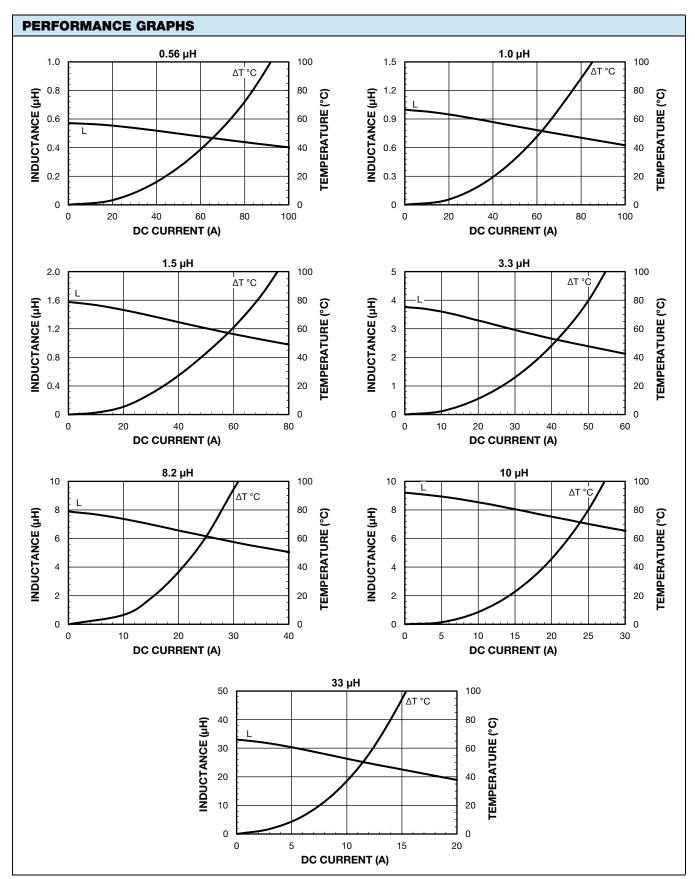
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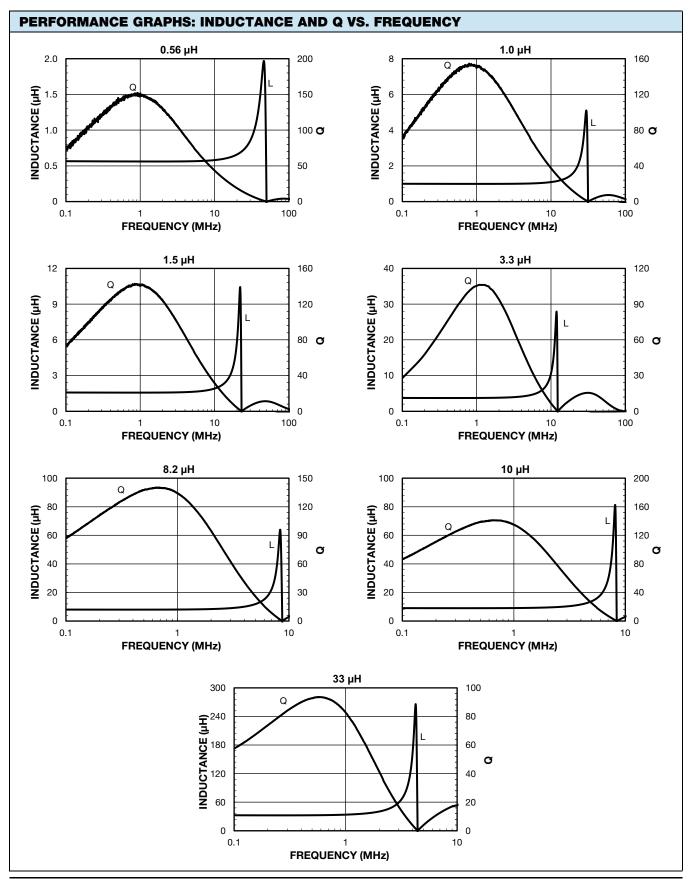














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