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Vishay Dale

AUTOMOTIVE GRADE

RoHS

COMPLIANT

FREE

GREEN (5-2008)

High Current Through-Hole Inductor, High Temperature Series





FEATURES

- · Shielded construction
- High temperature, up to 155 °C
- Excellent DC/DC energy storage up to 2 MHz
- Filter inductor applications up to SRF (see "Standard Electrical Specifications" table)
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- 48 V to 12 V input / output filters
- · Diesel injection drivers
- Noise suppression for motors

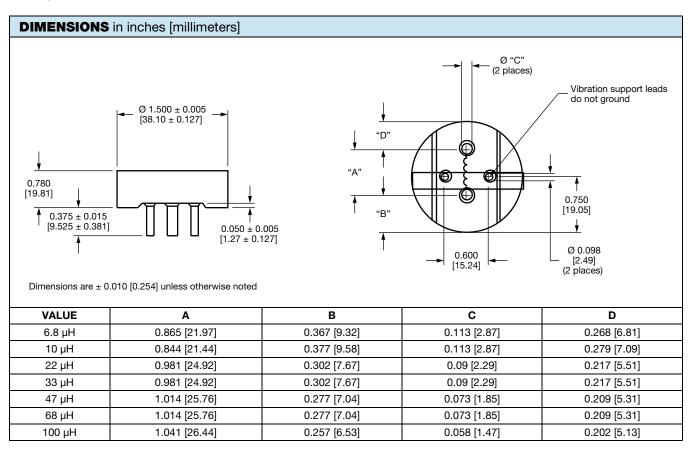
STANDARD ELECTRICAL SPECIFICATIONS								
	L ₀ INDUCTANCE ± 20 % AT 100 kHz,	DCR TYP.	HEAT RATING CURRENT DC TYP.		SATURATION CURRENT DC TYP. (A)			
PART NUMBER	0.25 V, 0 A (μH)	25 °C (mΩ)	25 °C (mΩ)	40 °C RISE ⁽¹⁾	80 °C RISE ⁽²⁾	20 % DROP ⁽³⁾	30 % DROP ⁽⁴⁾	SRF TYP. (MHz)
IHTH1500TZEB6R8M5A	6.8	1.1	1.2	63.3	85.8	75.5	106.2	8.3
IHTH1500TZEB100M5A	10	1.6	1.7	52.9	72.1	59.6	85.2	5.7
IHTH1500TZEB220M5A	22	3.7	3.9	34.4	45.8	44.8	59.78	3.5
IHTH1500TZEB330M5A	33	4.9	5.1	28.7	39.0	39.9	56.6	2.6
IHTH1500TZEB470M5A	47	8.9	9.3	20.5	27.9	32.1	45.3	1.9
IHTH1500TZEB680M5A	68	11.8	12.6	17.3	23.0	27.6	39.7	1.6
IHTH1500TZEB101M5A	100	21.5	22.6	12.2	16.8	23.2	33.7	1.2

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
- $^{(1)}$ DC current (A) that will cause an approximate ΔT of +40 $^{\circ} C$
- (2) DC current (A) that will cause an approximate ∆T of +80 °C
- (3) DC current (A) that will cause L₀ to drop approximately 20 %
- (4) DC current (A) that will cause L₀ to drop approximately 30 %



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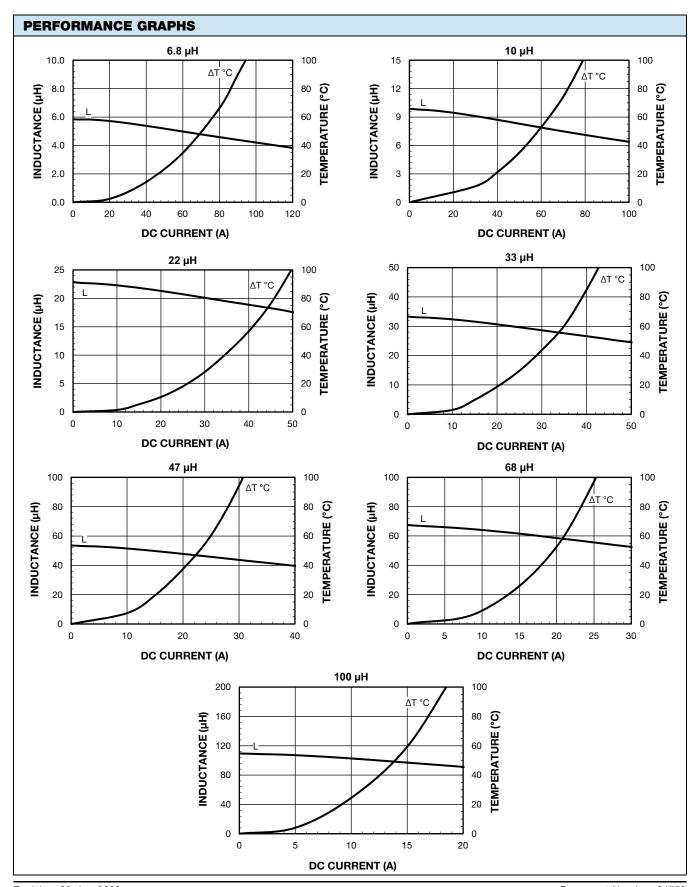


DESCRIPTION				
IHTH-1500TZ-5A	6.8 μH	± 20 %	Bulk Packaging	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE VALUE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

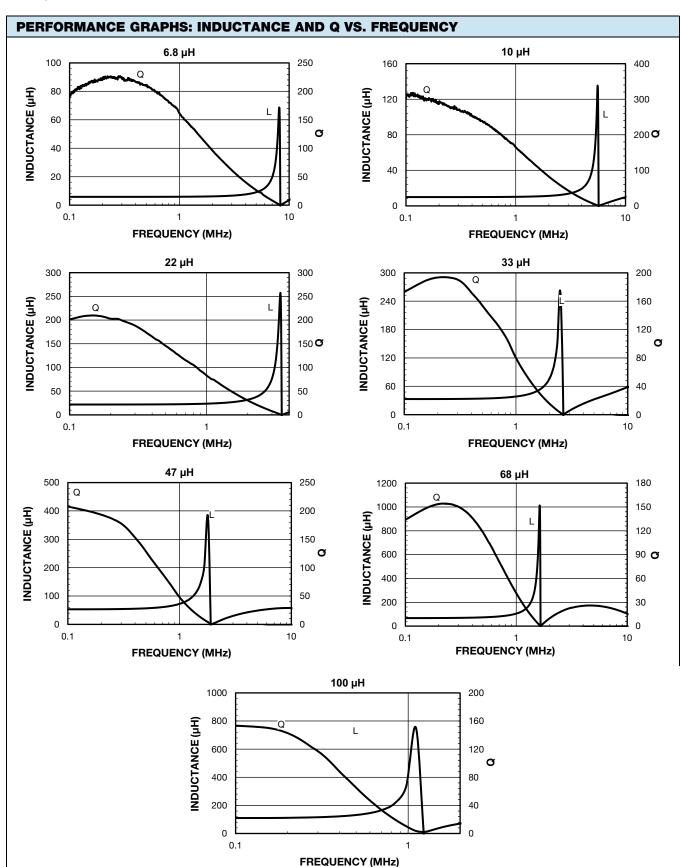
GLOBAL PART NUMBER							
I H T H	1 5 0 0 T Z	ЕВ	6 R 8 M 5 A				
MODEL	SIZE	PACKAGE CODE	INDUCTANCE INDUCT. SERIES VALUE TOL.				



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