

Vishay Dale

Low Profile, High Current Inductors - Special Molding



ADDITIONAL RESOURCES





STANDARD ELECTRICAL SPECIFICATIONS					
L ₀ 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) ⁽¹⁾	SATURATION CURRENT DC TYP. (A) (2)	SRF TYP. (MHz)
0.10	1.5	1.7	32.5	60	400
0.15	1.9	2.5	26	52	180
0.20	2.4	3.0	24	41	150
0.22	2.5	2.8	23	40	126
0.33	3.5	3.9	20	30	100
0.47	4.0	4.2	17.5	26	75
0.68	5.0	5.5	15.5	25	62
0.82	6.7	8.0	13	24	60
1.0	9.0	10	11	22	55
1.5	14	15	9	18	40
2.2	18	20	8	14	38
3.3	28	30	6	13.5	30
4.7	37	40	5.5	10	25
6.8	54	60	4.5	8	21
8.2	64	68	4	7.5	17
10	102	105	3	7.0	16

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) = 75 V
- (1) DC current (A) that will cause an approximate ΔT of 40 °C
- (2) DC current (A) that will cause L₀ to drop approximately 20 %

FEATURES

· Lowest molded height (3.0 mm) in this package footprint



• Shielded construction

 Excellent DC/DC energy storage up to 5 MHz. Filter inductor applications up to SRF (see

RoHS COMPLIANT

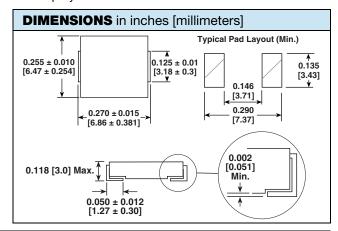
Lowest DCR/µH, in this package size

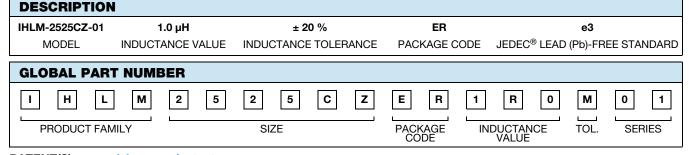
"Standard Electrical Specifications" table)

- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Encapsulated body offers improved environmental protection and moisture resistance
- · Higher dielectric withstanding voltage vs. IHLP
- Flame retardant encapsulant (UL 94 V-0)
- · Corrosion resistant package
- IHLP design. PATENT(S): www.vishay.com/patents
- · Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

APPLICATIONS

- PDA / notebook / desktop / server applications
- · High current POL converters
- · Low profile, high current power supplies
- · Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array
- · Harsh environments including moisture, chemicals and salt spray



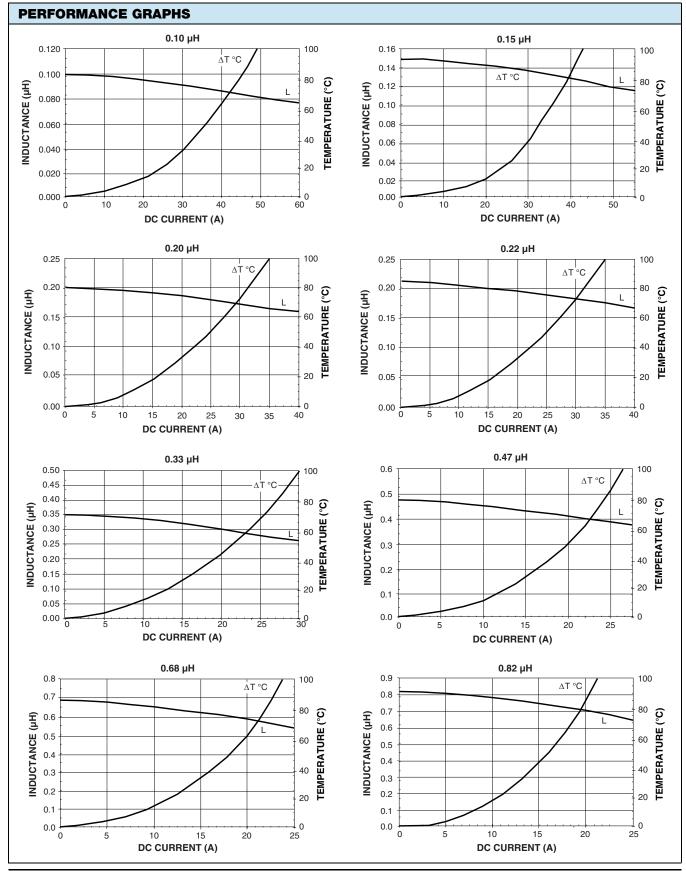


PATENT(S): www.vishay.com/patents

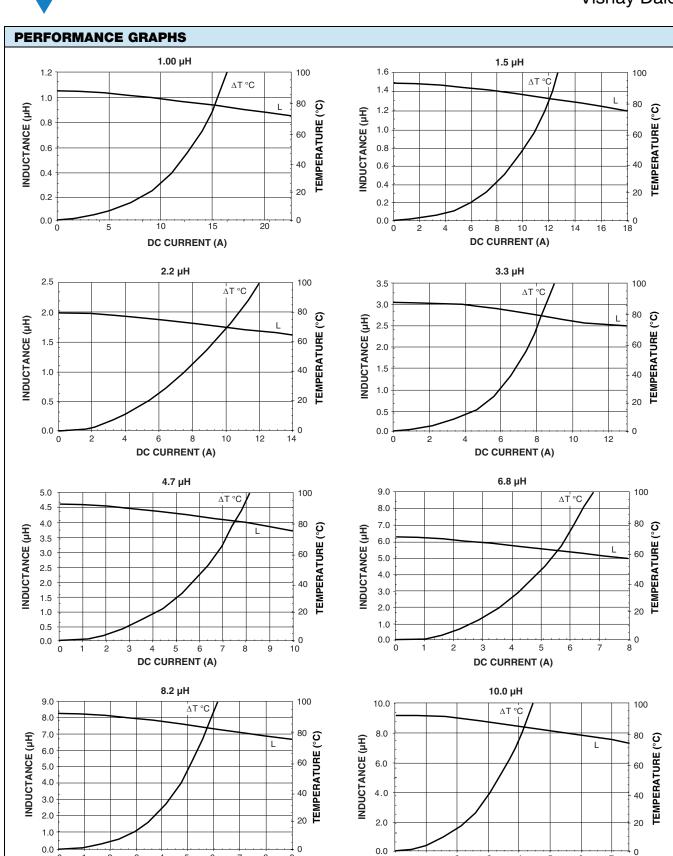
Revision: 17-Jan-2020

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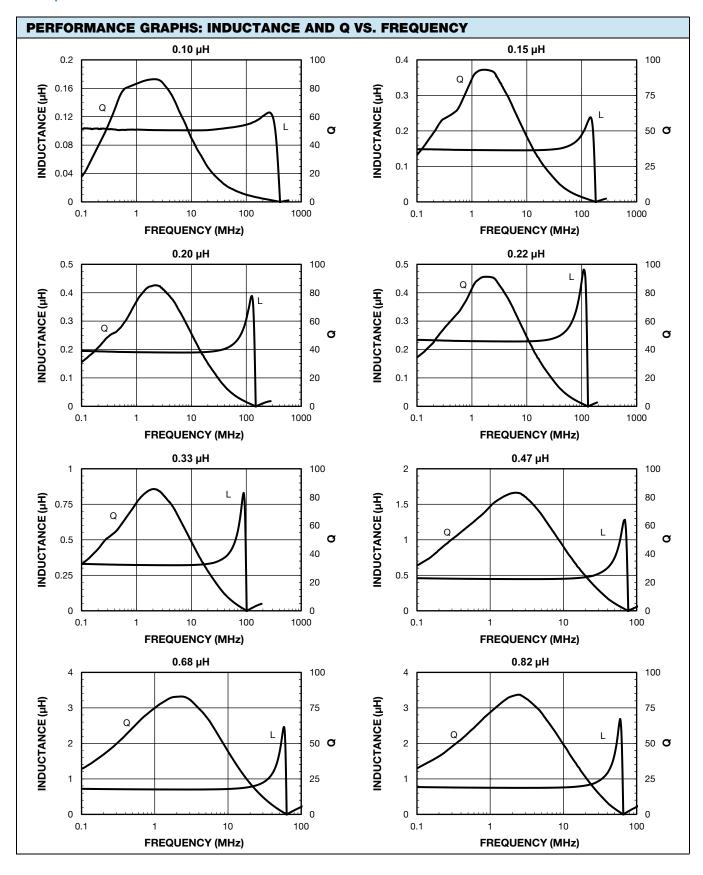
DC CURRENT (A)

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DC CURRENT (A)

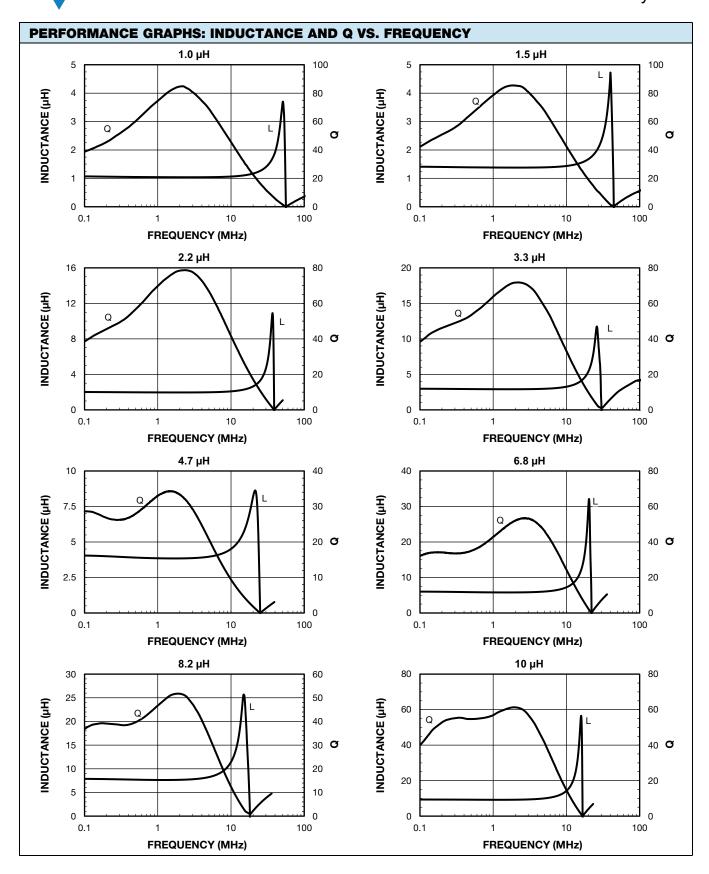
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