Vishay Dale



RoHS

10 % DCR Tolerance, Low Profile, Power Inductor





Manufactured under one or more of the following: US Patents; 6,198,375/6,204,744/6,449,829/6,460,244. Several foreign patents, and other patents pending.

STANDARD ELECTRICAL SPECIFICATIONS			
Lo INDUCTANCE µH ± 20 % at 100 kHz, 0.25 V, 0 A	DCR mΩ ± 10 % at 25 °C	HEAT RATING CURRENT DC AMPS ³ TYPICAL	SATURATION CURRENT DC AMPS ⁴ TYPICAL
0.60	1.85	29	51
0.68	2.34	28	49
1.0	3.21	24	40
1.5	4.97	19	35
2.2	7.20	16	29
3.3	10.69	12	27
4.7	14.27	10	24
5.6	18.19	9.5	19
10	30.86	7	14

NOTES:

- 1. All test data is referenced to 25 °C ambient
- 2. Operating Temperature Range 55 °C to + 125 °C
- 3. DC current (A) that will cause an approximate ΔT of 40 °C
- 4. DC current (A) that will cause Lo to drop approximately 20 %
- 5. 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.

FEATURES

- Lowest height (3.5 mm) in this package footprint
- Shielded construction

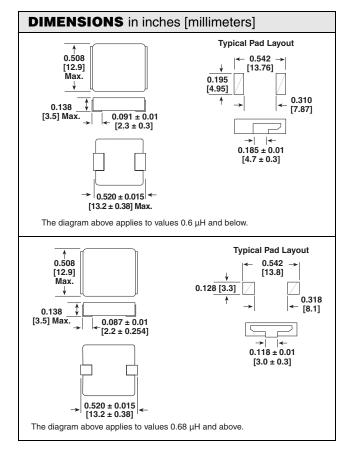
Frequency range up to 5.0 MHz

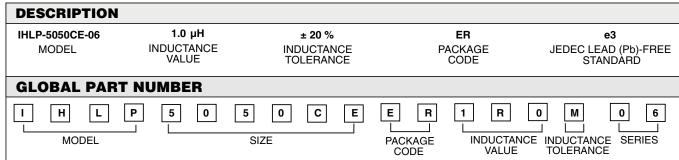
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation COMPLIANT Ultra low buzz noise, due to composite construction

100 % lead (Pb)-free and RoHS compliant

APPLICATIONS

- Tolerance DCR for current sense applications
- Improved current balance in phased power supplies
- Improved thermal management
- PDA/Notebook/Desktop/Server and Battery powered devices
- High current, Low profile POL converters
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Arrays (FPGA)

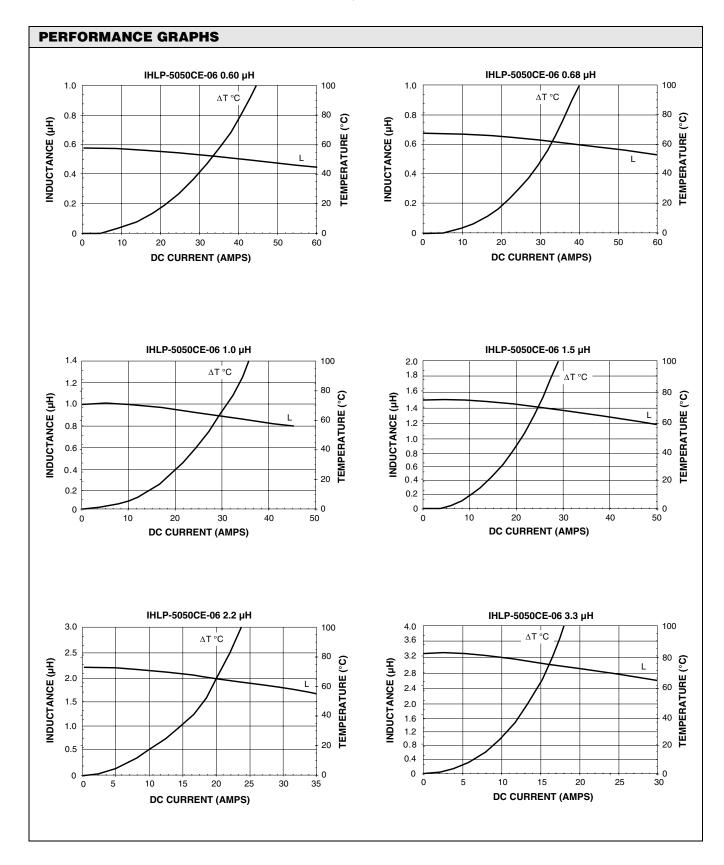






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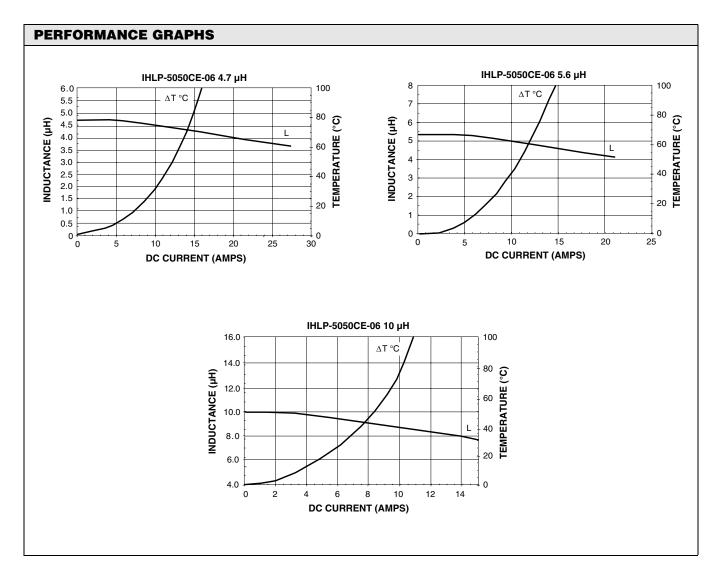
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