



SMD POWER INDUCTORS

IHLD Series

Low Profile, High Current Inductors



KEY BENEFITS

- Optimal design realizes high quality sound and low distortion
- Low coupling for minimal cross-talk between inductors
- Shielded construction
- High temperature
- Minimizes board space requirements

APPLICATIONS

- Class D amplifier circuits in automotive designs
- Circuits where board space is a premium and multiple inductors are required.

RESOURCES

- Datasheet: IHLD-3232HB-5A - www.vishay.com/doc?34382
IHLD-4040KB-5A - www.vishay.com/doc?34381
- Material categorization: For definitions please see www.vishay.com/doc?99912
- For technical questions contact magnetics@vishay.com



RoHS
COMPLIANT



One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



SMD POWER INDUCTORS

IHLD Series

IHLD-3232HB-5A

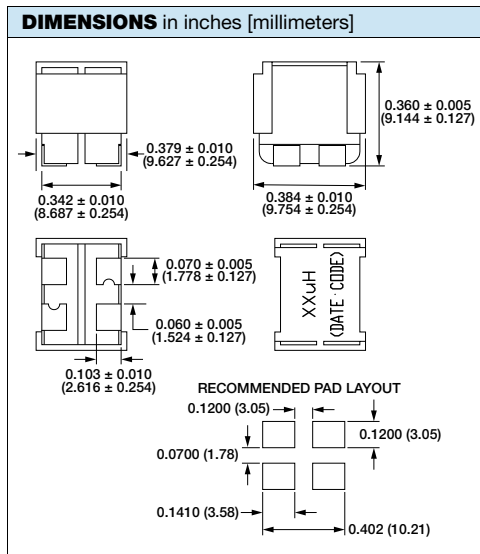


Manufactured under one or more of the following:
US Patents; 6,198,375/6,204,744/6,449,829/6,460,244.
 Several foreign patents, and other patents pending.

STANDARD ELECTRICAL SPECIFICATIONS					
L_0 INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (m Ω)	DCR MAX. 25 °C (m Ω)	HEAT RATING CURRENT DC TYP. (A) ⁽³⁾	SATURATION CURRENT DC TYP. (A) ⁽⁴⁾	SRF TYP. (MHz)
10	50.0	53.50	5.1	5.2	13.0
15	62.0	66.34	4.8	5.5	10.0
22	103.0	110.21	3.7	3.8	9.0
33	149.0	159.43	3.1	3.2	6.1

Notes

- (1) All test data is referenced to 25 °C ambient
- (2) Operating temperature range -55 °C to +155 °C
- (3) DC current (A) that will cause an approximate ΔT of 40 °C
- (4) DC current (A) that will cause L_0 to drop approximately 20 %
- (5) 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.



Model IHLD-3232HB-5A

Inductance value: 10 μH - 33 μH
 Inductance tolerance: ± 20 %
 Package code: ER
 JEDEC® Lead (Pb)-Free Standard e3

IHLD-4032KB-5A

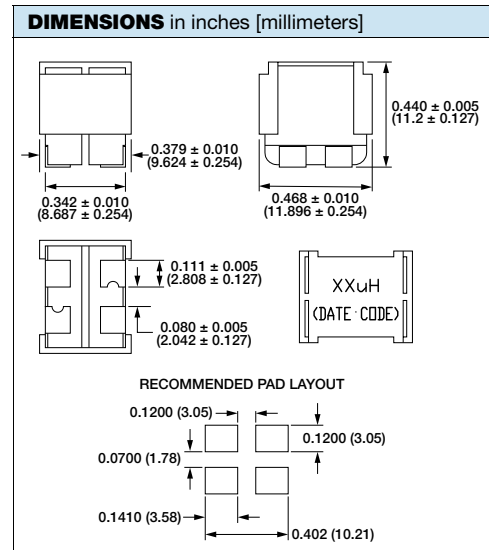


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10	30.5	32.6	5.6	7.4	10.2
15	43.5	45.5	4.6	5.5	9.5
22	67.8	72.5	4.1	4.1	7
33	100	107.0	3.8	3.7	6

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