Dual Inductor Series Designed for Class D Amplifiers

KEY BENEFITS
- Optimal design enables high-quality audio with 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
  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
## IHLD-3232HB-5A

**INDUCTION**

- **L0**: Inductance (μH) at 100 kHz, 0.25 V, 0 A
- **DCR**: DCR at 25°C
- **HEAT RATING**: DC TYP.
- **SATURATION**: DC TYP.
- **SRF**: TYP.

<table>
<thead>
<tr>
<th>L0</th>
<th>DCR TYP.</th>
<th>DCR MAX.</th>
<th>HEAT RATING</th>
<th>SATURATION</th>
<th>SRF TYP.</th>
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<td>6.1</td>
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### 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 L0 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.

### DIMENSIONS

**Model IHLD-3232HB-5A**

- Inductance value: 5 μH - 33 μH
- Inductance tolerance: ± 20%
- Package code: ER
- JEDEC® Lead (Pb)-Free Standard e3

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### DIMENSIONS

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