



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

IHLP-4040DZ-11

Vishay Dale

Low Profile, High Current 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 $\mu\text{H} \pm 20\%$ at 100 kHz, 0.25 V, 0 A | DCR $m\Omega$ TYPICAL 25 °C | DCR $m\Omega$ MAX 25 °C | HEAT RATING CURRENT DC AMPS ³ TYPICAL | SATURATION CURRENT DC AMPS ⁴ TYPICAL |
|---|-----------------------------------|-------------------------------|--|--|
| 0.19 | 0.70 | 0.80 | 40 | 46 |
| 0.24 | 0.85 | 0.95 | 33 | 44 |
| 0.36 | 1.05 | 1.15 | 32 | 30 |
| 0.47 | 1.53 | 1.68 | 30 | 30 |
| 0.56 | 1.60 | 1.80 | 32 | 22 |
| 0.78 | 1.80 | 1.90 | 27 | 22 |
| 1.0 | 2.30 | 2.50 | 25 | 20 |
| 1.8 | 4.50 | 5.00 | 17 | 16 |
| 2.0 | 5.20 | 5.80 | 16 | 14 |
| 4.7 | 12.90 | 14.20 | 9.5 | 7.6 |
| 6.8 | 17.50 | 19.30 | 9.0 | 7.5 |
| 10.0 | 27.80 | 30.50 | 7.5 | 7.1 |
| 15 | 40.90 | 45.00 | 6.25 | 6.0 |
| 22 | 60.40 | 66.00 | 5.0 | 4.5 |
| 47 | 132.0 | 145.0 | 3.3 | 3.0 |
| 100 | 249.0 | 270.0 | 2.5 | 2.25 |

NOTES:

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

- Shielded construction
- Frequency range up to 1.0 MHz
- Lowest DCR/ μH , in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- 100 % lead (Pb)-free and RoHS compliant



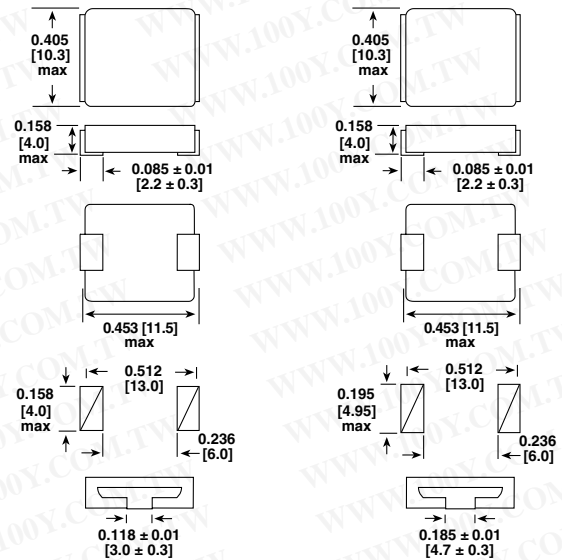
RoHS
COMPLIANT

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 (FPGA)

DIMENSIONS in inches [millimeters]

Typical Pad Layout



DESCRIPTION

IHLP-4040DZ-11
MODEL

2.0 μH
INDUCTANCE
VALUE

$\pm 20\%$
INDUCTANCE
TOLERANCE

ER
PACKAGE
CODE

e3
JEDEC LEAD (Pb)-FREE
STANDARD

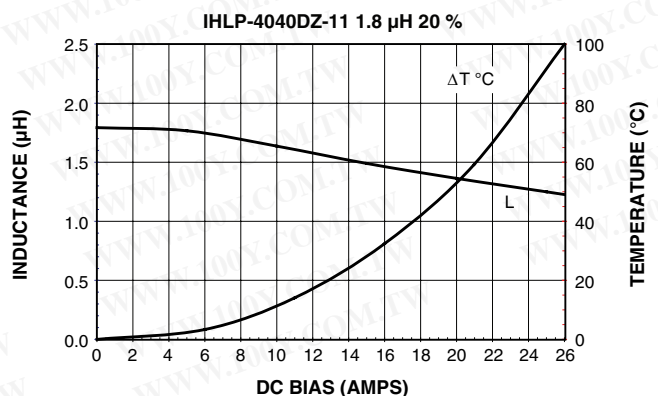
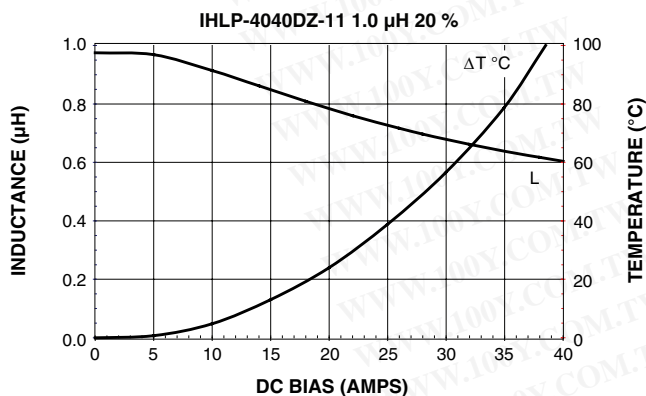
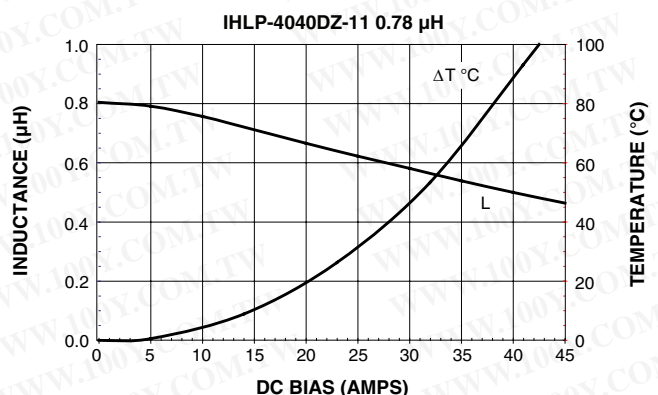
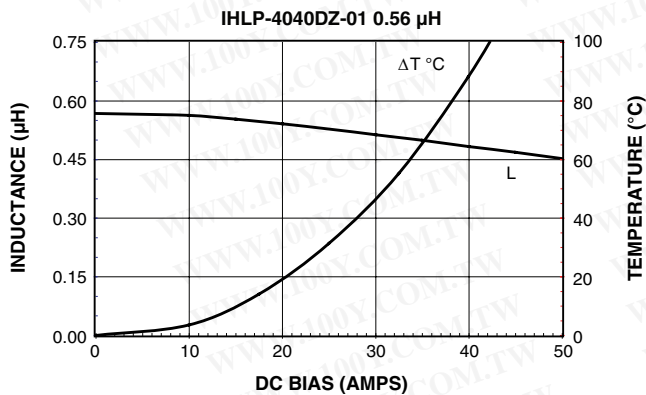
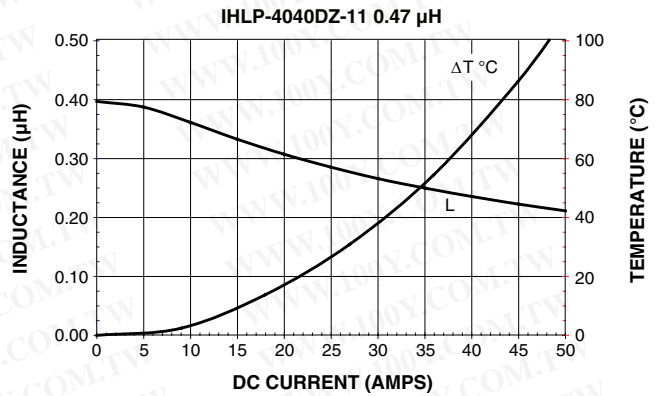
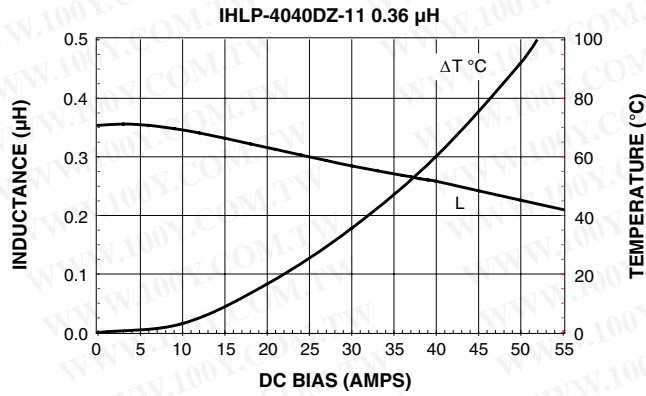
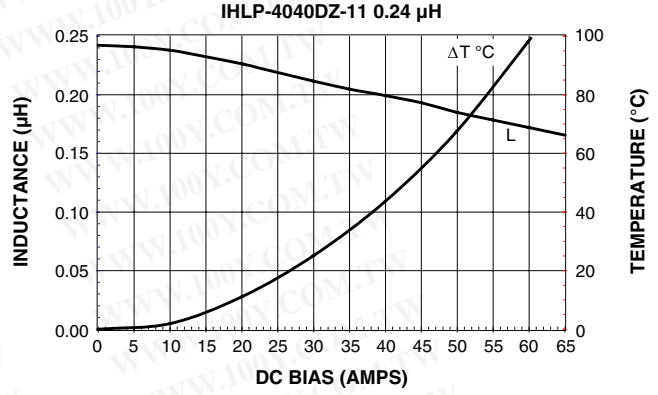
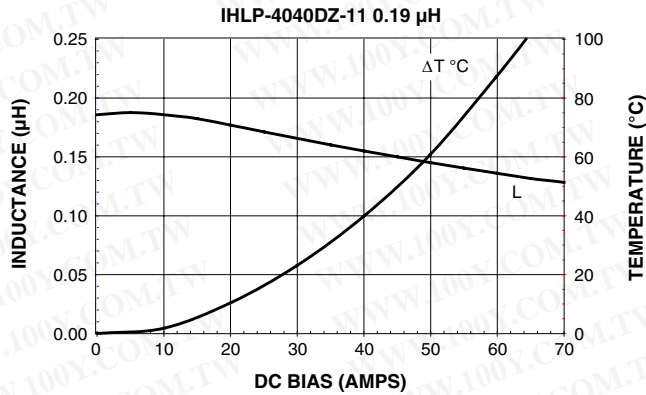
GLOBAL PART NUMBER

| | | | | | | | | | | | | | | | | | |
|-------|---|---|---|------|---|---|---|--------------|---|------------------|---|----------------------|---|--------|---|---|---|
| I | H | L | P | 4 | 0 | 4 | 0 | D | Z | E | R | 2 | R | 0 | M | 1 | 1 |
| MODEL | | | | SIZE | | | | PACKAGE CODE | | INDUCTANCE VALUE | | INDUCTANCE TOLERANCE | | SERIES | | | |



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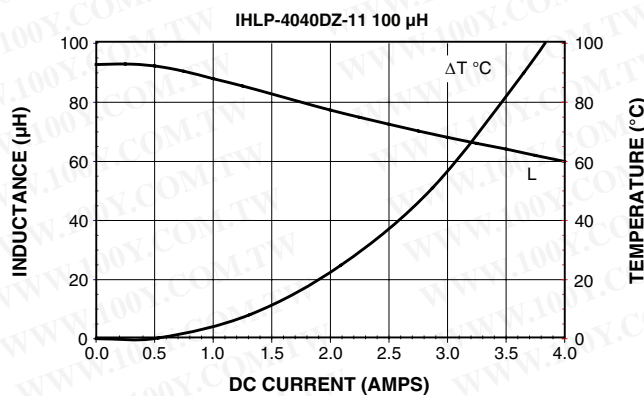
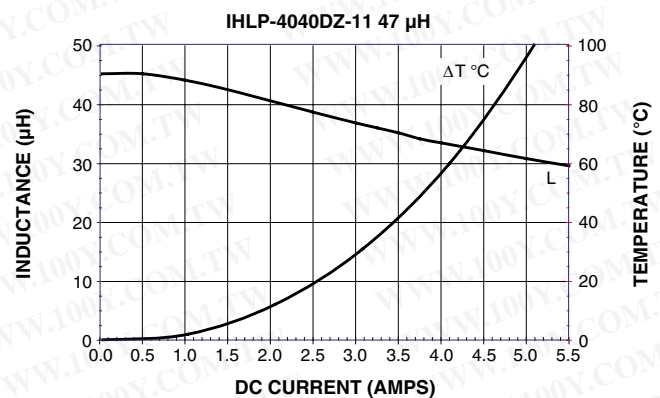
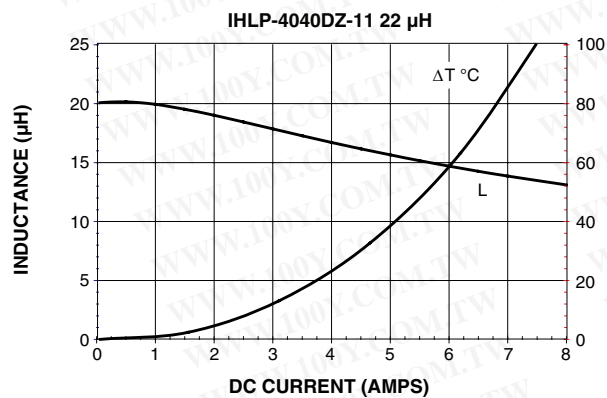
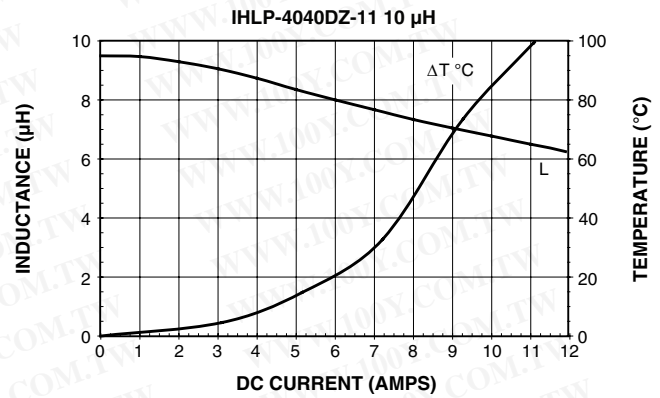
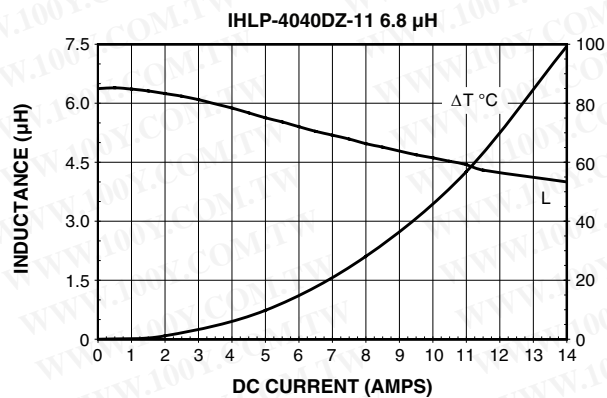
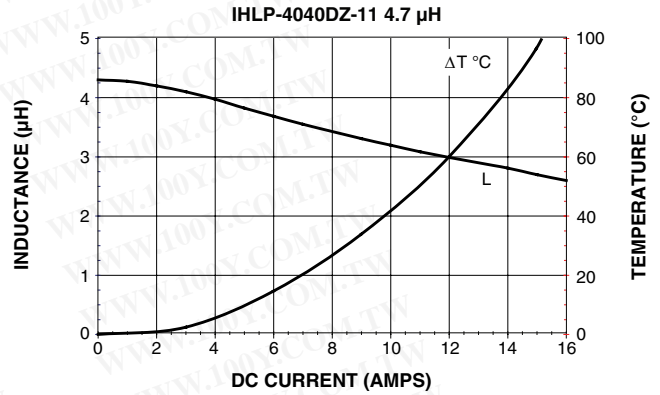
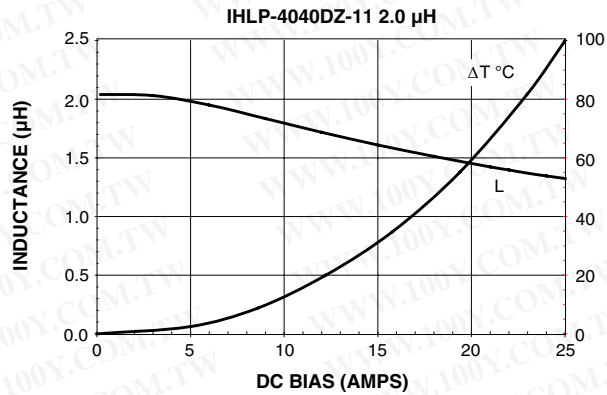
PERFORMANCE GRAPHS





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Vishay

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