# Low Profile, High Current Inductors




## FEATURES

- Shielded construction
- Frequency range up to 2 MHz
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

## APPLICATIONS

- Notebook / desktop / server applications
- High current POL converters
- Low profile, high current power supplies
- DC/DC converters in distributed power systems

## STANDARD ELECTRICAL SPECIFICATIONS

| PART NUMBER | $L_0$ INDUCTANCE ± 20 % AT 100 kHz, 1 V, 0 A (µH) | DCR TYP. 25 °C (mΩ) | DCR MAX. 25 °C (mΩ) | HEAT RATING CURRENT DC TYP. (A) (3) | SATURATION CURRENT DC TYP. (A) (4) |
|---|---|---|---|---|---|
| IFLR4027EZER85NM01 | 0.085 | 0.38 | 0.42 | 50 | 70 |
| IFLR4027EZERR10M01 | 0.100 | 0.38 | 0.42 | 50 | 70 |
| IFLR4027EZERR12M01 | 0.120 | 0.38 | 0.42 | 50 | 52 |
| IFLR4027EZERR15M01 | 0.155 | 0.38 | 0.42 | 50 | 40 |
| IFLR4027EZERR22M01 | 0.220 | 0.38 | 0.42 | 50 | 33 |

**Notes**

(1) All test data is referenced to 25 °C ambient.

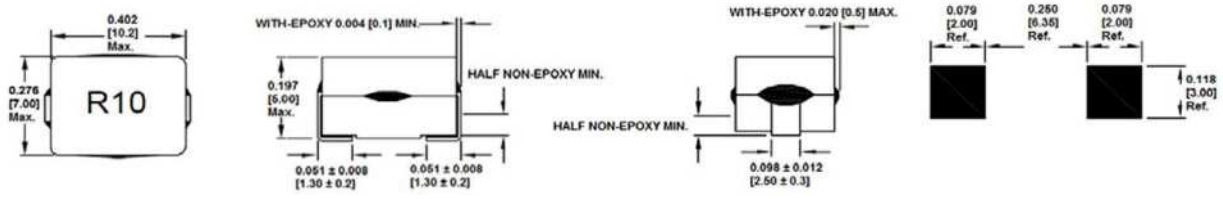
(2) Operating and Storage temperature range -40 °C to +125 °C.

(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 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.

## DIMENSIONS in inches [millimeters]




## DESCRIPTION

| IFLR-4027EZ-01 | 0.12 µH | ± 20 % | ER | e3 |
|---|---|---|---|---|
| MODEL | INDUCTANCE VALUE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD |

## GLOBAL PART NUMBER

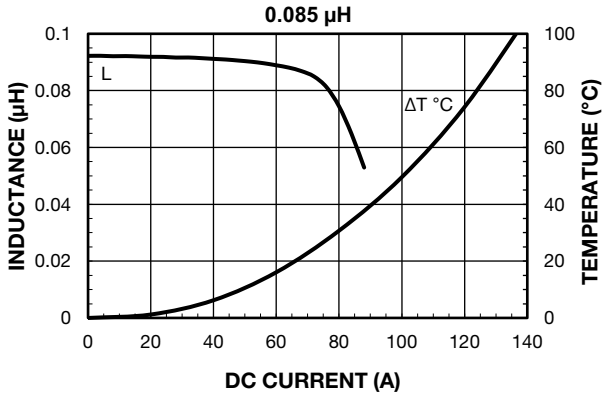
| I | F | L | R | 4 | 0 | 2 | 7 | E | Z | E | R | R | 1 | 2 | M | 0 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT FAMILY | | | | SIZE | | | | | | PACKAGE CODE | | INDUCTANCE VALUE | | | TOL. | SERIES | |

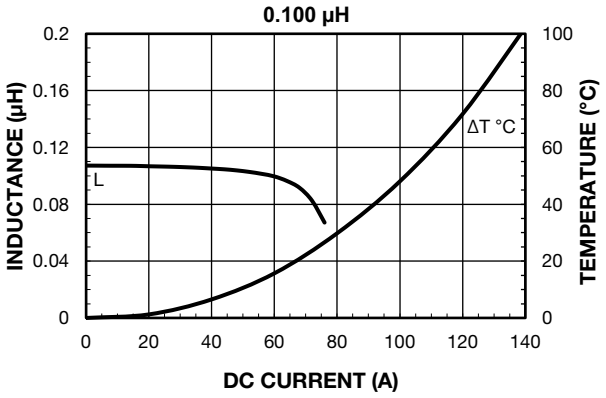


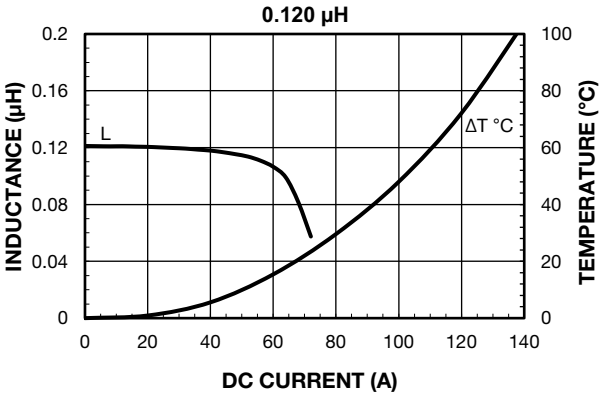
For technical questions, contact: magnetics@vishay.com

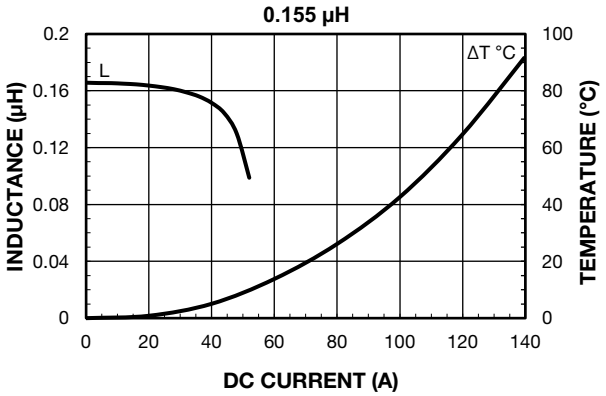
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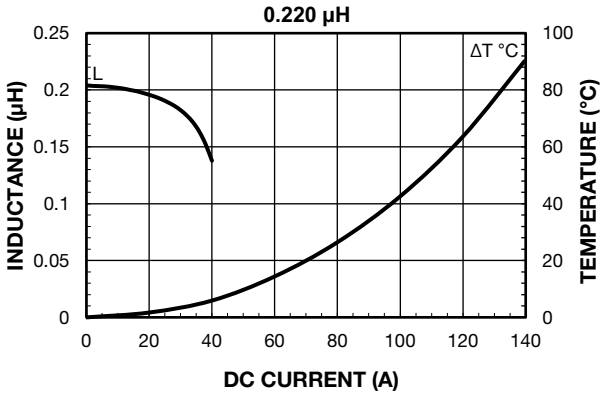
## PERFORMANCE GRAPHS



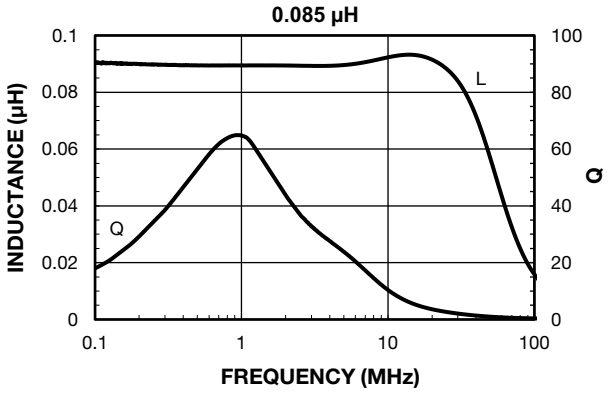



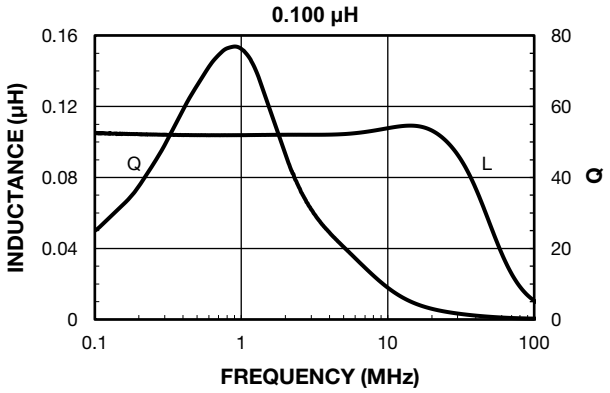


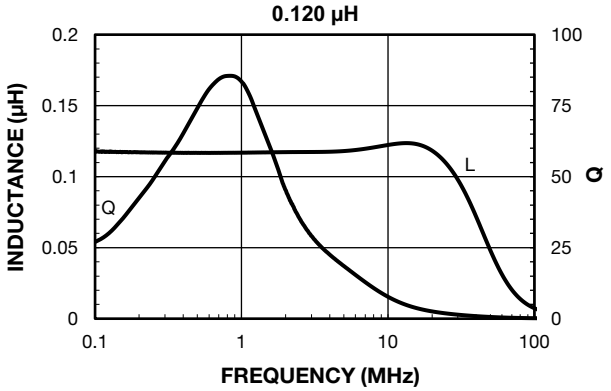

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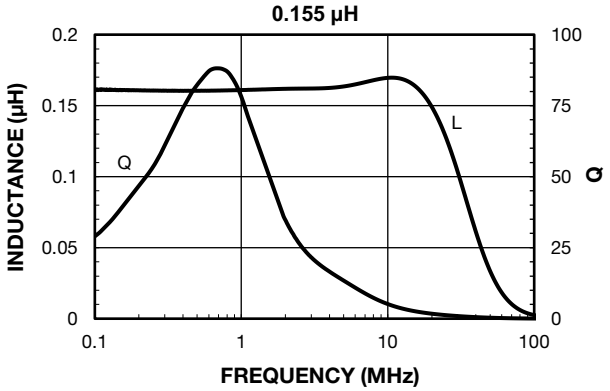
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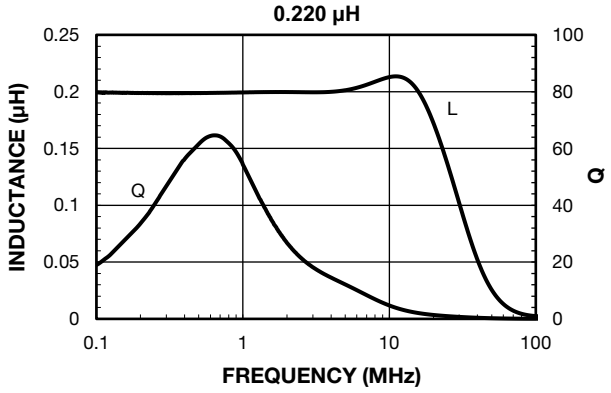
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