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## Low Profile, High Current Inductors - DC Resistance Tolerance 3 %

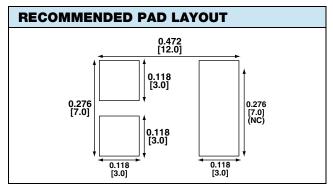


Patents Pending

STANDARD ELECTRICAL SPECIFICATIONS			
L <sub>0</sub> INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR ± 3 % AT 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) <sup>(3)</sup>	SATURATION CURRENT DC TYP. (A) (4)
0.34	0.88	32	36
0.42			30
0.50			25
0.62			20

#### **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  $L_0$  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.



#### **FEATURES**

- Shielded construction
- Frequency range up to 5.0 MHz
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without
- Material categorization: for definitions of compliance please see <a href="https://www.vishav.com/doc?99912">www.vishav.com/doc?99912</a>

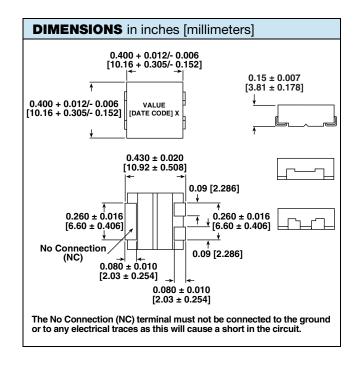
# Pb-free

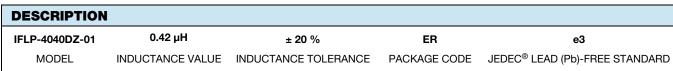
## ROHS

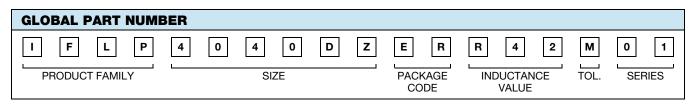
HALOGEN FREE

#### **APPLICATIONS**

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





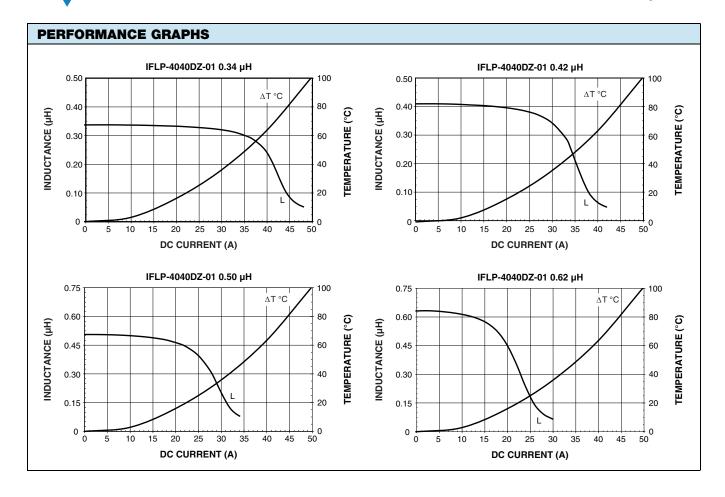






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