

Vishay Dale

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

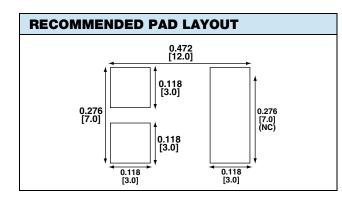


Patents Pending

STANDARD ELECTRICAL SPECIFICATIONS						
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR ± 3 % AT 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) ⁽³⁾	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
- DC current (A) that will cause an approximate ∆T of 40 °C (3)
- $^{(4)}$ 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.



DESCRIPTION					
IFLP-4040DZ-01	0.42 μH	± 20 %	ER	e3	
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	DE JEDEC LEAD (Pb)-FREE STANDARD	
GLOBAL PART	NUMBER				
PRODUCT FAM	P 4 0	4 0 D Z SIZE	E R R PACKAGE IN CODE	4 2 M 0 IDUCTANCE TOL. SE	1 ERIES
Revision: 20-Sep-13		1		Document Numb	per: 34200

RoHS

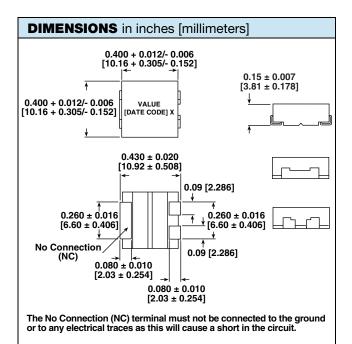
COMPLIANT

- Shielded construction
- · Frequency range up to 5.0 MHz Lowest DCR/µH, in this package size
- · Handles high transient current spikes without saturation
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

FEATURES

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



cument Number: 3

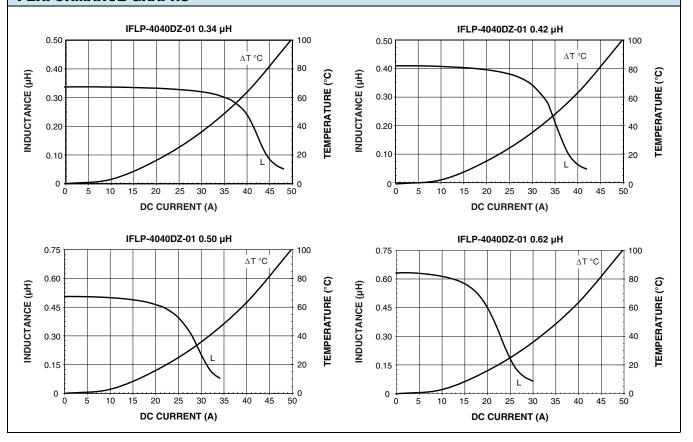
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IFLP-4040DZ-01



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