IFLP-4040DZ-01

Vishay Dale

3 % DCR Tolerance, Low Profile, High Current Inductor

Patents Pending

FEATURES

- Shielded construction
- Frequency range up to 5.0 MHz
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- 100 % lead (Pb)-free and RoHS compliant

Pb-free RoHS COMPLIANT

APPLICATIONS

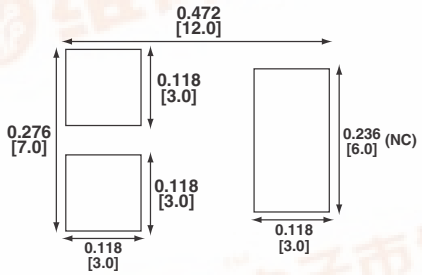
- Notebook/Desktop/Server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems

STANDARD ELECTRICAL SPECIFICATIONS

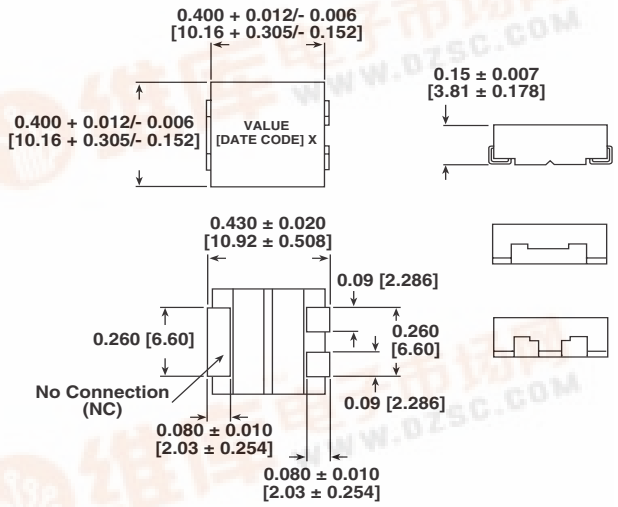
Lo INDUCTANCE µH ± 20 % at 100 kHz, 0.25 V, 0 A	DCR mΩ ± 3 % at 25 °C	HEAT RATING CURRENT DC AMPS[3] TYPICAL	SATURATION CURRENT DC AMPS[4] TYPICAL
0.34	0.88	32	36
0.42	0.88	32	30
0.50	0.88	32	25
0.62	0.88	32	20

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 Lo 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.

RECOMMENDED PAD LAYOUT



DIMENSIONS in inches [millimeters]



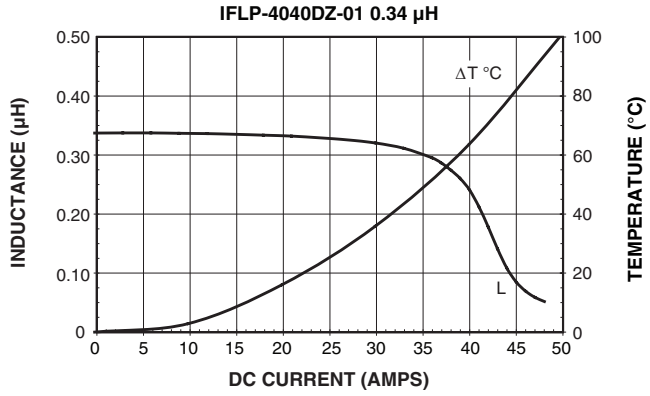
DESCRIPTION

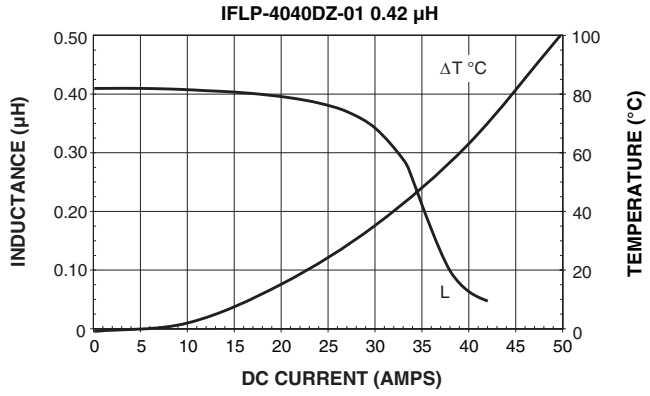
IFLP-4040DZ-01	0.42 µH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

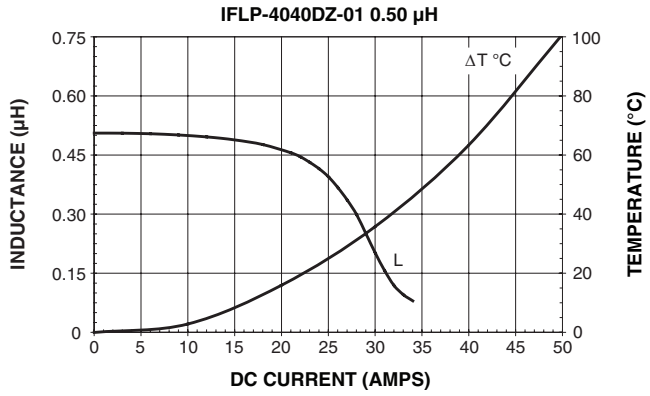
GLOBAL PART NUMBER

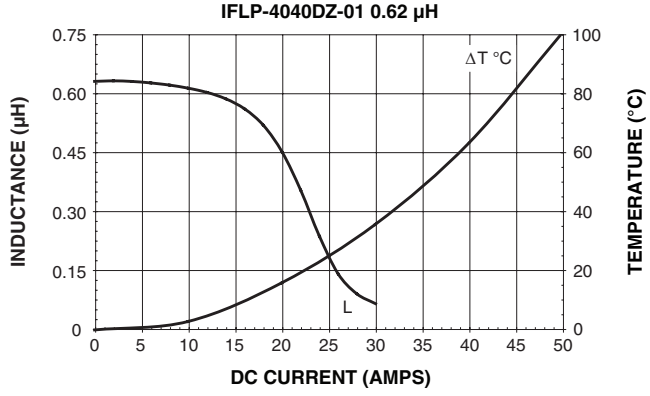
I	F	L	P	4	0	4	0	D	Z	E	R	R	4	2	M	0	1
MODEL				SIZE						PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE	SERIES	

PERFORMANCE GRAPHS









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