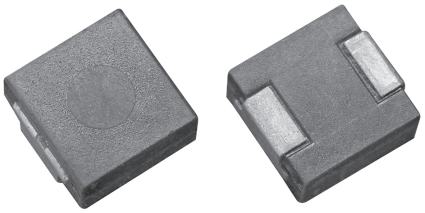
IHLM-2525CZ-01

Vishay Dale

Molded, 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 µH ± 20% @100KHz, .25V, 0A	DCR mΩ TYPICAL 25°C	DCR mΩ MAX 25°C	HEAT RATING CURRENT DC AMPS[3] TYPICAL	SATURATION CURRENT DC AMPS[4] TYPICAL
0.10	1.5	1.7	32.5	60
0.15	1.9	2.5	26	52
0.20	2.4	3.0	24	41
0.22	2.5	2.8	23	40
0.33	3.5	3.9	20	30
0.47	4	4.2	17.5	26
0.68	5	5.5	15.5	25
0.82	6.7	8	13	24
1.0	9	10	11	22
1.5	14	15	9	18
2.2	18	20	8	14
3.3	28	30	6	13.5
4.7	37	40	5.5	10
6.8	54	60	4.5	8
8.2	64	68	4	7.5
10	102	105	3	7.0

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.

DESCRIPTION

IHLM-2525CZ-01	1.0µH	± 20%
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE

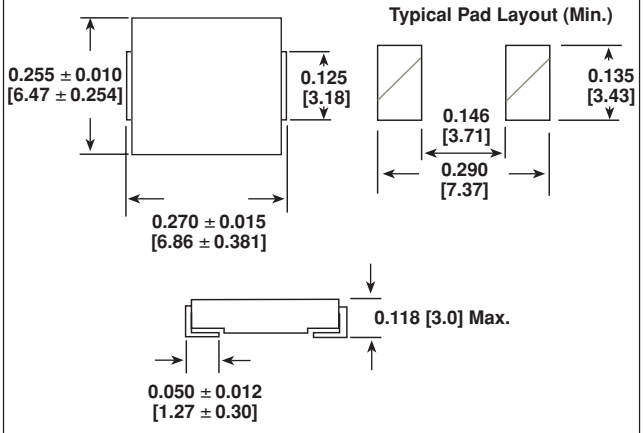
FEATURES

- Lowest molded height (3.0mm) in this package footprint.
- Shielded construction.
- Frequency range up to 5.0MHz.
- 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.
- Encapsulated body offers improved environmental protection and moisture resistance
- Higher dielectric withstanding voltage vs IHLP
- Flame retardant encapsulant (UL 94V-0)
- Corrosion resistant package

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).
- Harsh environments including moisture, chemicals and salt spray.

DIMENSIONS in inches [millimeters]



SAP PART NUMBERING GUIDELINES (INTERNAL)

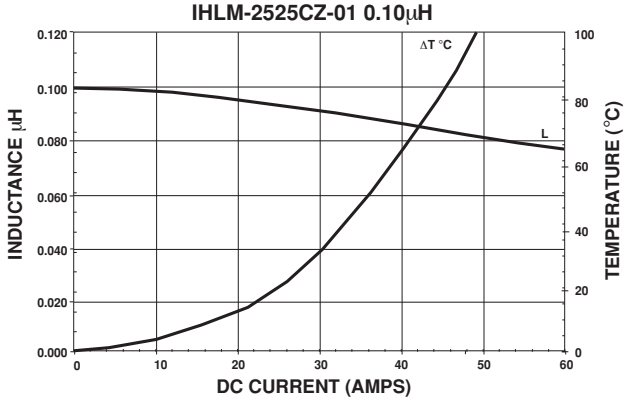
I	H	L	M	2	5	2	5	C	Z	E	R	1	R	0	M	0	1
PRODUCT FAMILY				SIZE						PACKAGE CODE		INDUCTANCE VALUE			TOL.	SERIES	

See the end of this data book for conversion tables

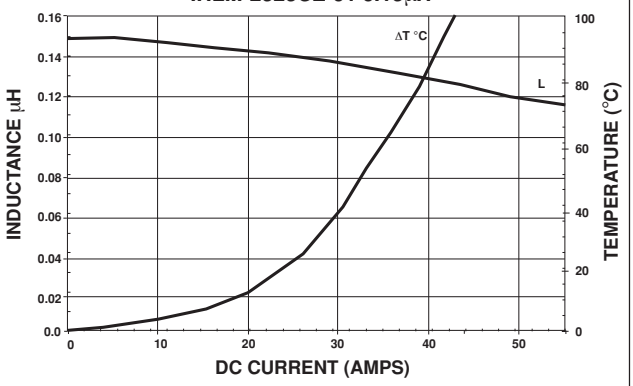
For technical questions, contact Magnetics@vishay.com

PERFORMANCE GRAPHS

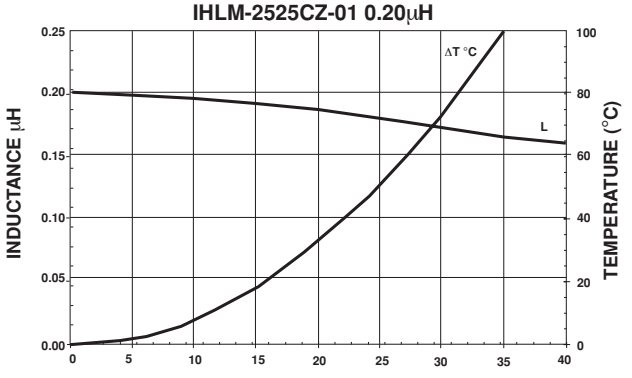
IHLM-2525CZ-01 0.10µH



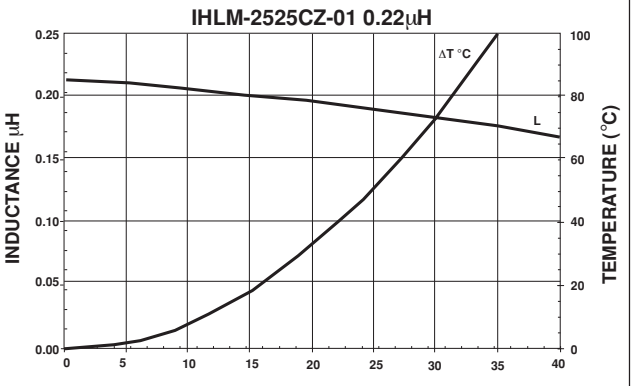
IHLM-2525CZ-01 0.15µH



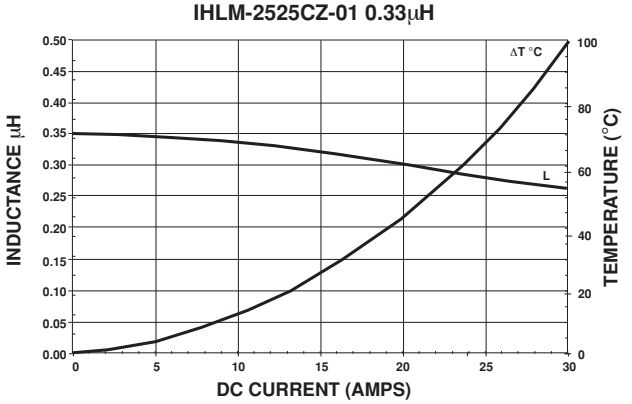
IHLM-2525CZ-01 0.20µH



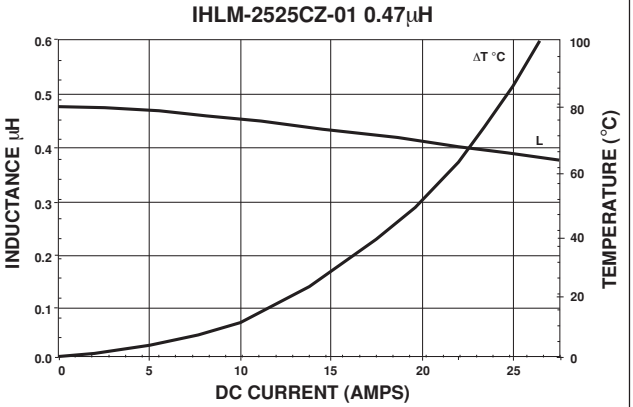
IHLM-2525CZ-01 0.22µH



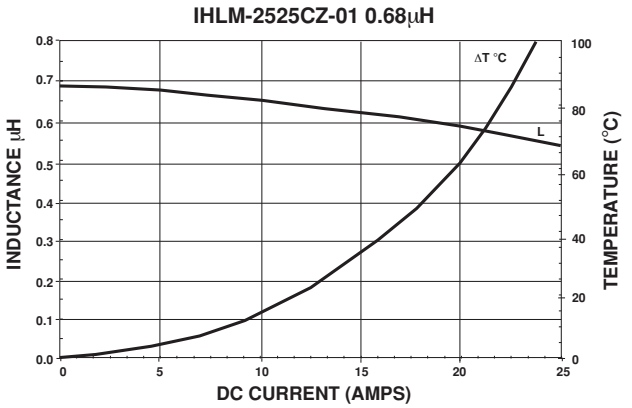
IHLM-2525CZ-01 0.33µH



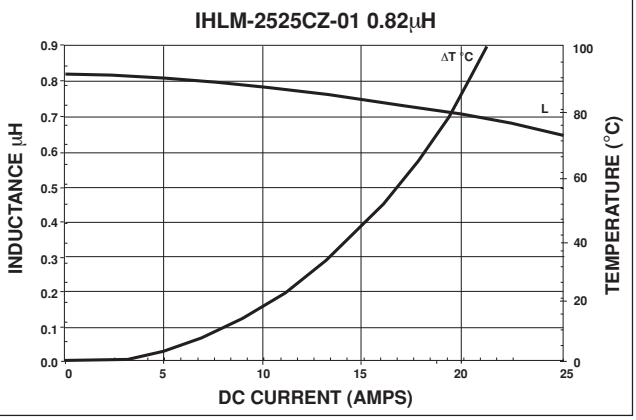
IHLM-2525CZ-01 0.47µH



IHLM-2525CZ-01 0.68µH

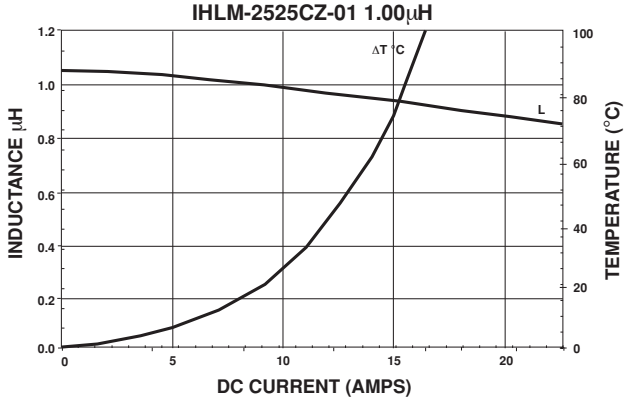


IHLM-2525CZ-01 0.82µH

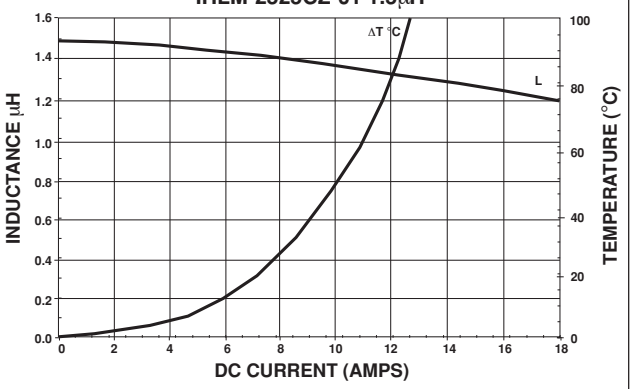


PERFORMANCE GRAPHS

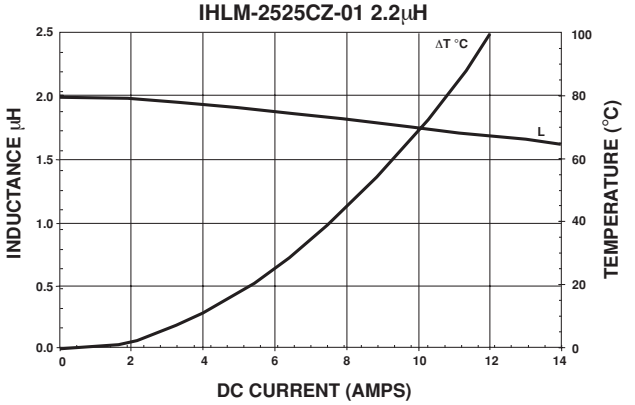
IHLM-2525CZ-01 1.00μH



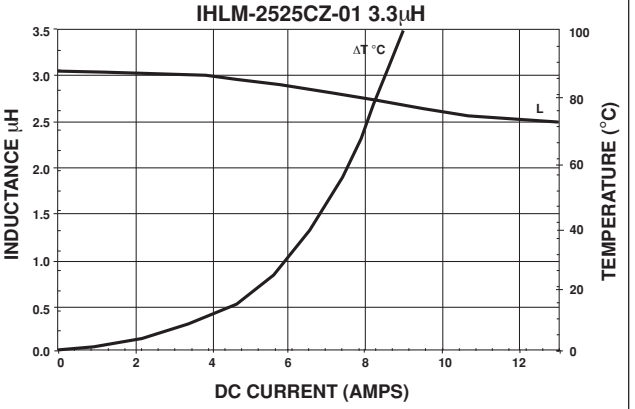
IHLM-2525CZ-01 1.5μH



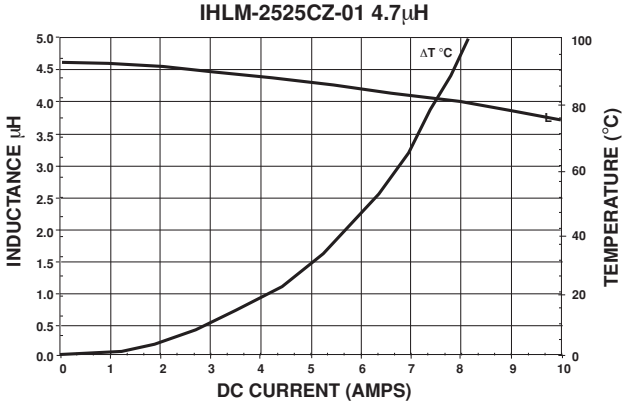
IHLM-2525CZ-01 2.2μH



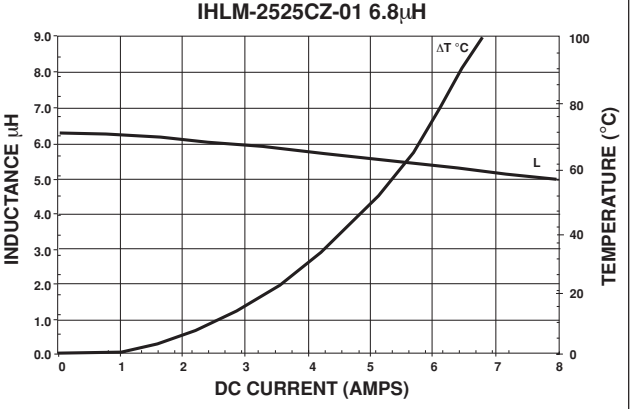
IHLM-2525CZ-01 3.3μH



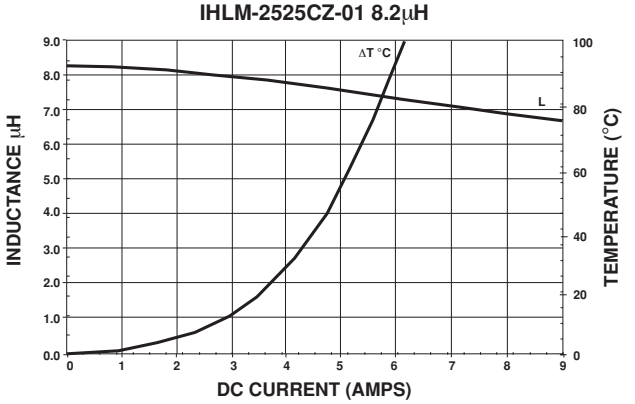
IHLM-2525CZ-01 4.7μH



IHLM-2525CZ-01 6.8μH



IHLM-2525CZ-01 8.2μH



IHLM-2525CZ-01 10.0μH