



Low Profile, High Current Inductor



FEATURES

- Low profile.
- High current.
- Low loss up to 5 MHz.
- Low DCR.
- Less than 10% L drop at full rated current.
- Patents pending.

ENVIRONMENTAL TESTING ($\Delta L \pm 10\%$)

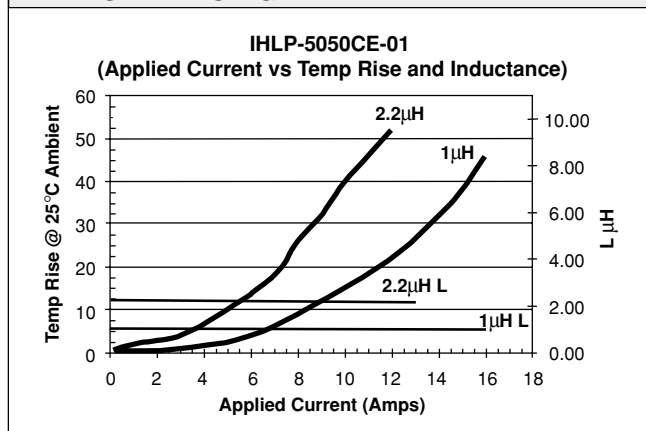
Humidity: 500 hours @ + 55°C, 85% RH.
Moisture Resistance: MIL-STD-200, Method 106.
Life: 1000 hours @ + 85°C at full rated current.
Resistance to Solder Heat: 10 sec. Dip + 260°C solder.
Thermal Shock: 1000 cycles of - 40°C to + 85°C.
Vibration: MIL-STD-202, Method 201.
Shock: MIL-STD-202, Method 213, Condition I.

STANDARD ELECTRICAL SPECIFICATIONS

L $\pm 20\%$ (μH)	Test Frequency (KHz)	DCR Maximum (Milliohms)	Rated Current* (Amps)
0.47	100	2.0	18
0.68	100	2.5	17
0.82	100	3.0	16
1.0	100	3.5	15
1.5	100	5.5	11
2.2	100	8.0	10
3.3	100	11.0	8
4.7	100	15.0	7

*40°C temperature rise

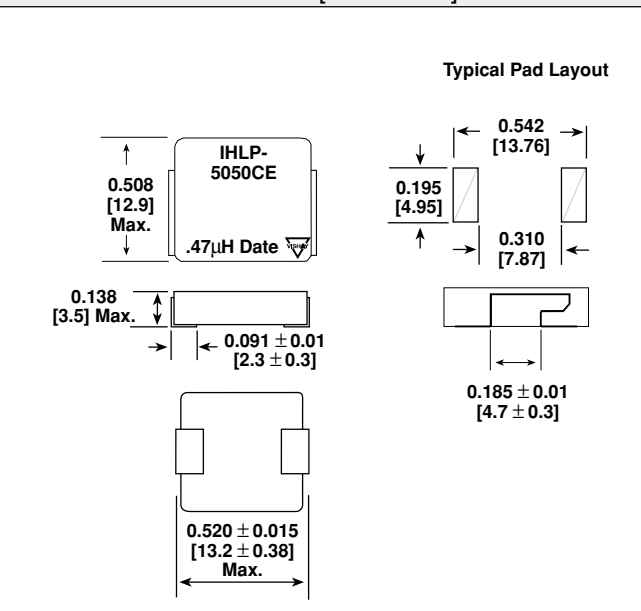
PERFORMANCE GRAPH



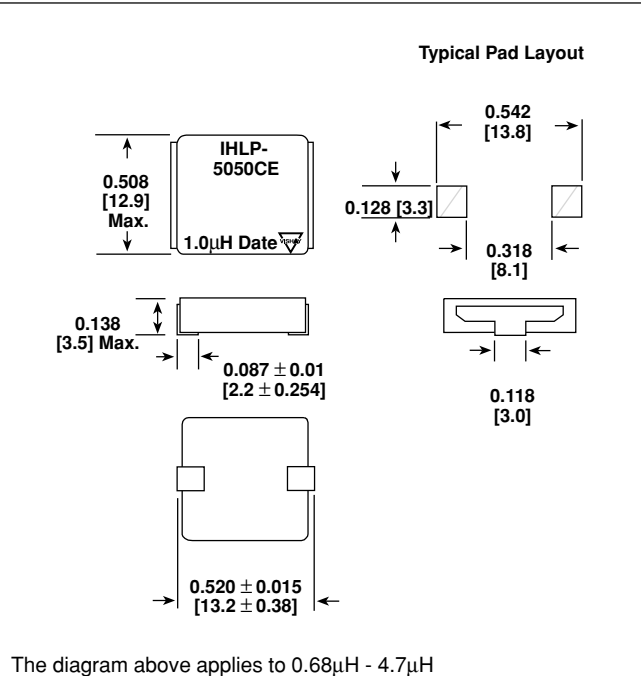
ORDERING INFORMATION

<u>IHLP-5050CE-01</u>	<u>1.0μH</u>	<u>± 20%</u>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE

DIMENSIONS in inches [millimeters]



The diagram above applies only to 0.47μH



The diagram above applies to 0.68μH - 4.7μH