Electrical / Environmental

HM72E-12

High Power High Performance Molded Surface Mount Inductors

- Operating & Storage Temperature -40°C to +155°C
- Temperature Rise, Maximum 40°C
- Operating Frequency Up to 5MHz

Specification @ 25°C

Part Number	Inductance(1) µH±20%	Heating Current(2) (Adc)	Isat(3) (Adc)	DCR (mΩ)	
				Typ.	Max.
HM72E-12R68HLF	0.68	35	35	1.4	1.6
HM72E-121R0HLF	1.00	32	31	1.7	2.0
HM72E-121R5HLF	1.50	27	27	2.5	3.0
HM72E-122R2HLF	2.20	22	24	3.5	4.2
HM72E-123R3HLF	3.30	18	20	5.7	6.8
HM72E-12100HLF	10.0	10	9	16.4	17.2
HM72E-12200HLF	20.0	5	8	37.0	40.5

Notes:

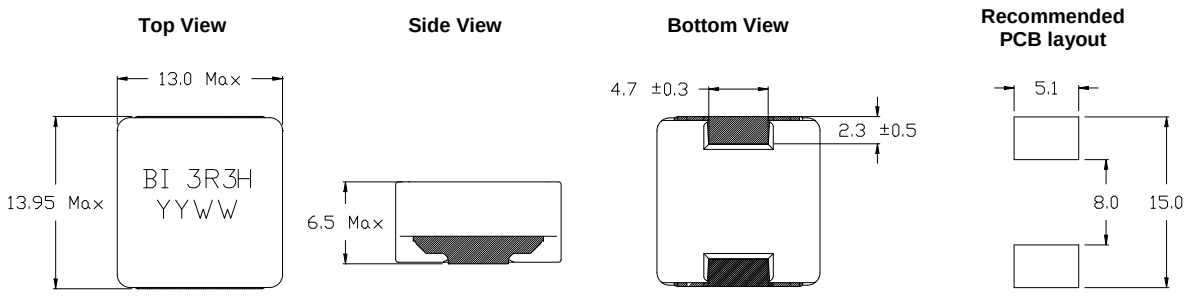
(1) Inductance is measured at 100 kHz, 0.1Vac without DC current.

(2) The Heating Current is the approximate DC current which causes the component temperature to increase by 40°C. This current is determined by soldering the component on a typical application PCB, and then applying the current to the device for 30 minutes.

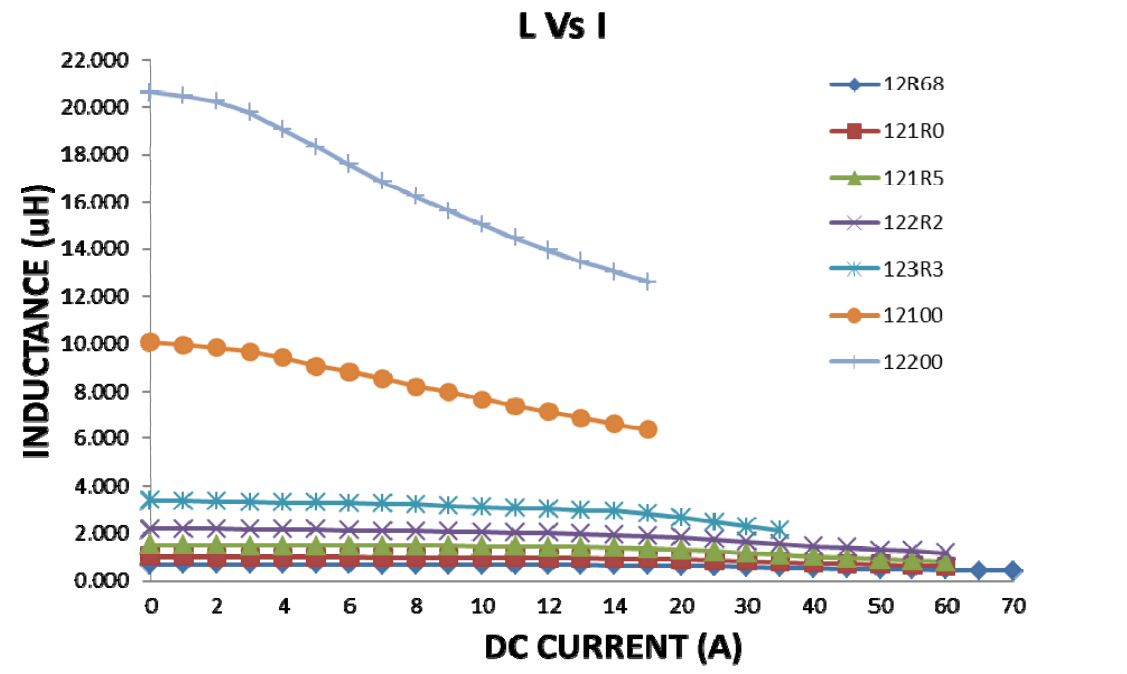
(3) The saturation current (Isat) is the approximate current at which the inductance will be decreased by 20% typical from its initial (zero DC) value.

(4) The part temperature (ambient + temperature rise) should not exceed 155°C.

Outline Dimensions (mm)



Electrical Characteristic @ 25°C (Cont'd)



Packaging / Ordering Information

One reel (13")	400 pcs
One shipping carton (6 reels)	2400 pcs

HM72E - 12 R68 LF TR13

- HM72E — Model Series
- 12 — Case Size
- R68 — Inductance Code: First 2 digits are significant. Last digit denotes number of trailing zeros. For values below 10µH, "R" denotes the decimal point.
- LF — Lead Free
- TR13 — 13" tape & reel packing

Rev.	Description of Change	Date
A	Initial draft release.	8/18/14
B	Remove draft copy watermark and part number highlights.	10/31/14