

High Power High Performance Molded Surface Mount Inductors

Model HM72E-06

Features and Benefits

**NOT SUPPORTED FOR NEW DESIGN.
FOR AUTOMOTIVE DESIGNS, PLEASE
REFER TO HA72L. FOR INDUSTRIAL
DESIGNS, PLEASE REFER TO HM72L.**

- Operating Temperature Range -40°C to +155°C
- Temperature Rise, Maximum 50°C
- Operating Frequency Up to 3MHz
- RoHS Compliant



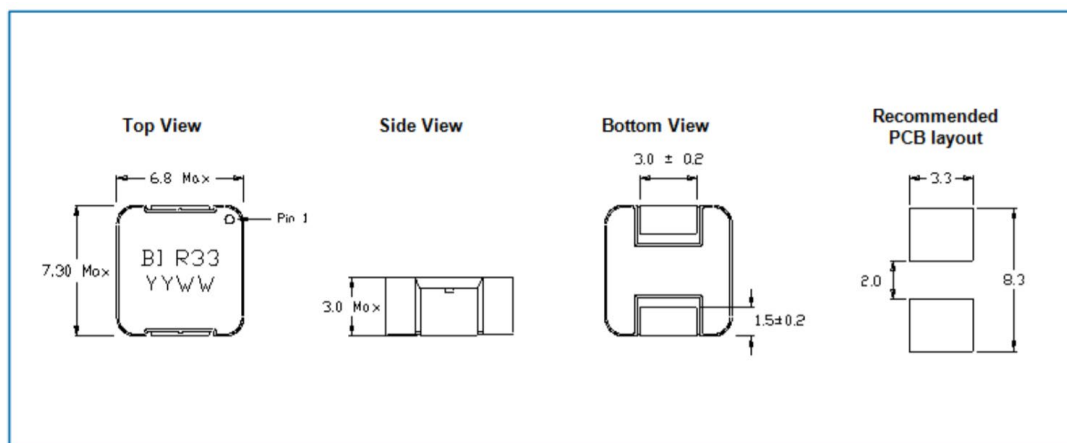
Specifications @ 25°C

Part Number	Inductance ⁽¹⁾ μH±20%	Heating Current ⁽²⁾ (Adc)	Isat ⁽³⁾ (Adc)	DCR (mΩ)	
				Typ.	Max.
HM72E-06R10LF	0.10	26.2	45.0	1.5	1.7
HM72E-06R20LF	0.20	20.3	34.0	2.5	2.8
HM72E-06R33LF	0.33	18.0	22.0	3.2	3.9
HM72E-06R47LF	0.47	16.1	19.0	4.0	4.2
HM72E-06R68LF	0.68	14.4	16.5	5.0	5.5
HM72E-061R0LF	1.00	10.3	15.0	9.0	10.0
HM72E-061R5LF	1.50	8.4	10.0	13.0	14.0
HM72E-062R2LF	2.50	8.3	8.5	18.0	20.0
HM72E-063R3LF	3.30	6.6	8.0	26.5	30.0
HM72E-064R7LF	4.70	5.4	6.5	39.0	42.0
HM72E-066R8LF	6.80	4.1	5.0	62.0	68.0
HM72E-068R2LF	8.20	3.5	4.2	80.0	100.0
HM72E-06100LF	10.0	3.2	4.0	100.0	105.0
HM72E-06330LF	33.0	1.8	2.5	302.0	332.0

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 50°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.

Mechanical Outline Dimensions (mm)



General Note

TT Electronics reserves the right to make changes in product specification without notice or liability.
All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

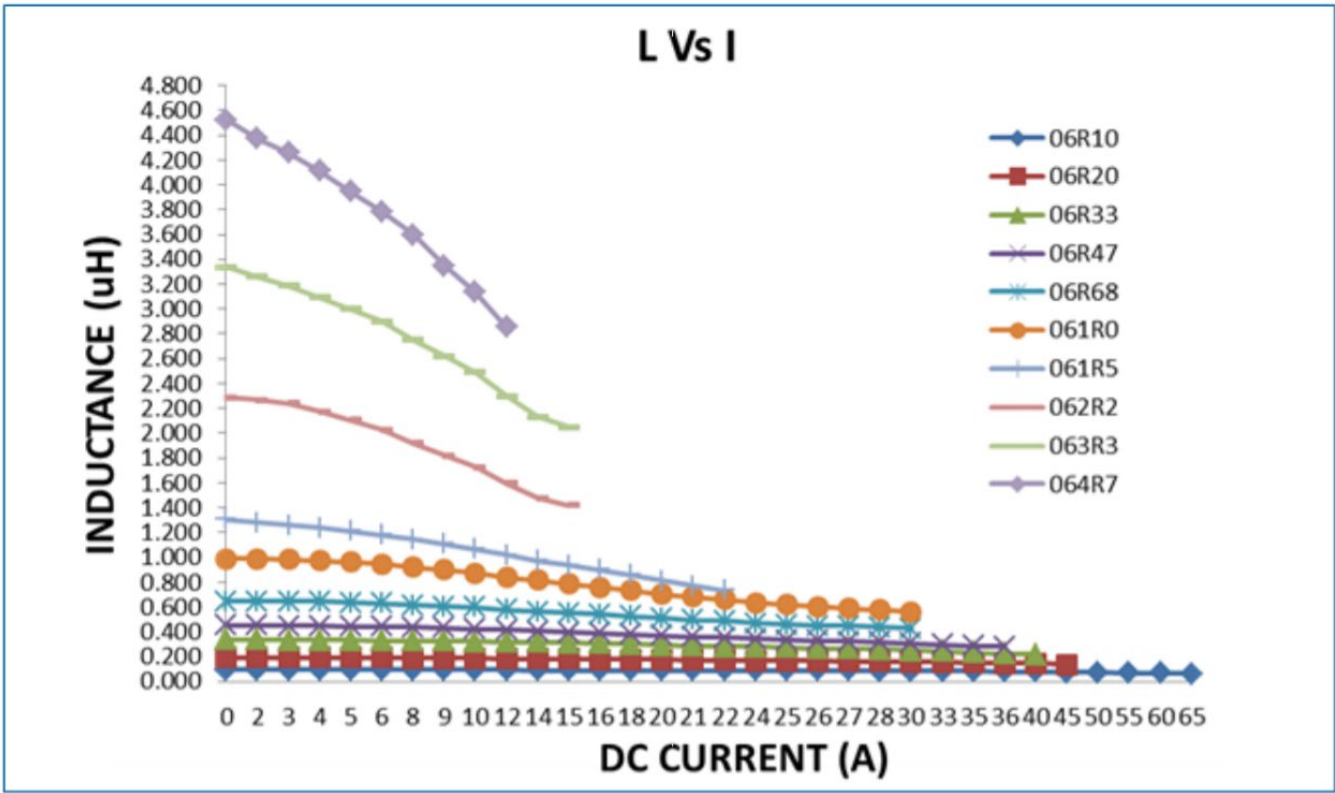
© TT Electronics plc

BI Technologies
A-1445, Jalan Tanjung Api
25050 Kuantan
Pahang Darul Makmur
Malaysia

Ph: +60 9 565 8888 Fax: +60 9 514 3555
<http://www.ttelectronics.com/magnetics/customer-service-enquiry>

Rev. 03 12.18

Electrical Characteristic @ 25°C



Packaging

One reel (13")	2000 pcs
One shipping carton (6 reels)	12000 pcs

Ordering Information

Model Series

Case Size

Inductance Code:

First 2 digits are significant. Last digit denotes number of trailing zeros. For values below 10μH, "R" denotes the decimal point.

HM72E - 06 R33 LF TR13

13" tape & reel packing

Lead Free