# **Magnetics**

Electronics

Make Possible

High Power High Performance Molded Surface Mount Inductors

#### Model HM72E-06

#### Features and Benefits

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



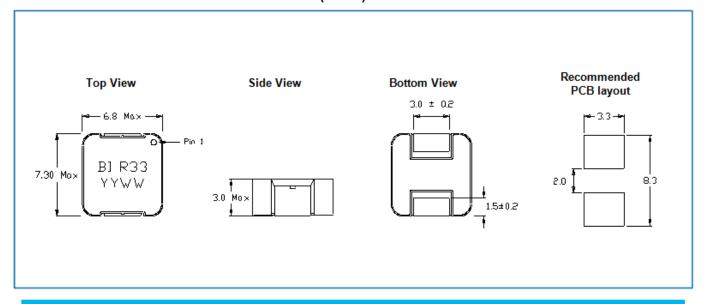
### Specifications @ 25°C

Part Number	Inductance <sup>1)</sup> μH±20%	Heating Current <sup>(2)</sup> (Adc)	Isat <sup>(3)</sup> (Adc)	DCR (mΩ)	
				Тур.	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	2.20	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.

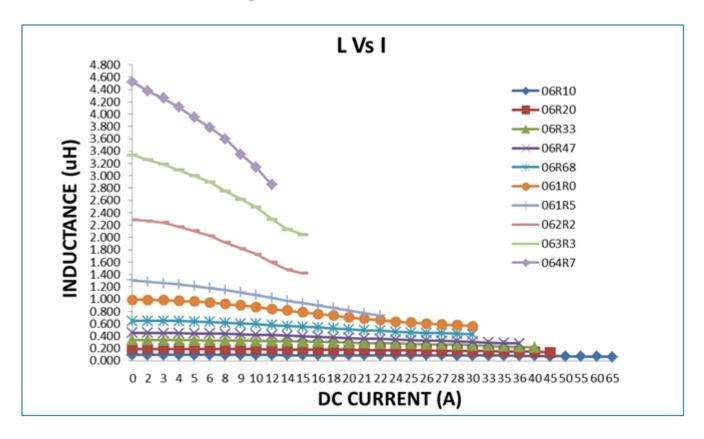
### Mechanical Outline Dimensions (mm)



#### General Note

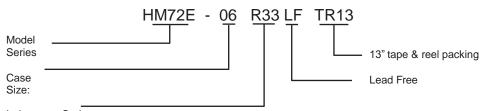


### Electrical Characteristic @ 25°C



## Packing / Ordering Information

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



Inductance Code:

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