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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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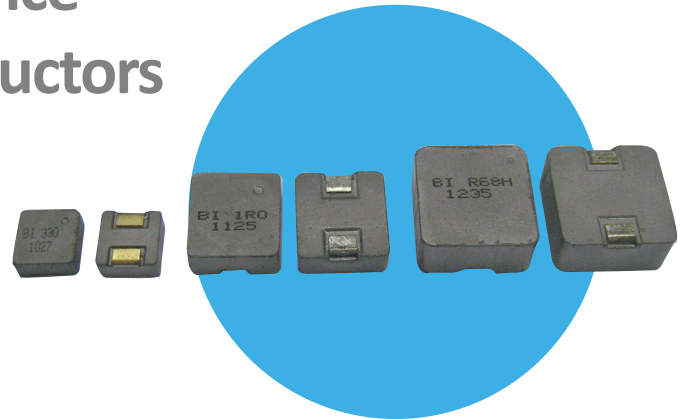


## High Power High Performance Molded Surface Mount Inductors

### Model HM72A Series

#### Features

- Operating Temperature Range -40°C to +130°C
- Temperature Rise, Maximum 50°C
- Operating Frequency Up to 3MHz
- RoHS Compliant



### Specifications @ 25°C

Part Number	Inductance, Lo @ 100 kHz, 0Adc (μH)			Heating Current <sup>(1)</sup> (Adc)	I <sub>sat</sub> <sup>(2)</sup> (Adc)	DC Resistance (mΩ)		Height C (mm)	Figure
	Min.	Typ.	Max.			Typ.	Max.		
HM72A-06R10LF	0.08	0.10	0.12	26.2	60	1.50	1.70	3.0	1
HM72A-06R15LF	0.12	0.15	0.18	23.3	52	1.90	2.50	3.0	1
HM72A-06R20LF	0.16	0.20	0.24	21.2	41	2.30	3.00	3.0	1
HM72A-06R22LF	0.18	0.22	0.26	20.3	40	2.50	2.80	3.0	1
HM72A-06R33LF	0.26	0.33	0.40	18.0	30	3.20	3.90	3.0	1
HM72A-06R47LF	0.38	0.47	0.56	16.1	26	4.00	4.20	3.0	1
HM72A-06R68LF	0.54	0.68	0.82	14.4	25	5.00	5.50	3.0	1
HM72A-06R82LF	0.66	0.82	0.98	12.0	24	7.20	8.00	3.0	1
HM72A-061R0LF	0.80	1.00	1.20	10.3	22	9.00	10.00	3.0	1
HM72A-061R5LF	1.20	1.50	1.80	8.4	18	14.50	15.00	3.0	1
HM72A-062R2LF	1.76	2.20	2.64	8.3	14	15.00	20.00	3.0	1
HM72A-063R3LF	2.64	3.30	3.96	6.6	13.5	26.50	28.00	3.0	1
HM72A-064R7LF	3.76	4.70	5.64	5.4	10	35.00	40.00	3.0	1
HM72A-066R8LF	5.44	6.80	8.16	4.1	8	62.00	68.00	3.0	1
HM72A-06100LF	8.00	10.00	12.00	3.2	7	100.00	105.00	3.0	1
HM72A-06220LF	17.6	22.0	26.4	2.2	4.5	219.00	241.00	3.0	1
HM72A-06330LF	26.4	33.0	39.6	1.8	3.5	302.00	332.00	3.0	1
HM72A-10R15LF	0.12	0.15	0.18	33.0	44	0.75	0.82	4.0	2
HM72A-10R19LF	0.15	0.19	0.23	33.7	72	0.70	0.80	4.0	2
HM72A-10R24LF	0.19	0.24	0.29	31.6	70	0.80	0.90	4.0	2
HM72A-10R36LF	0.29	0.36	0.43	27.5	60	1.30	1.40	4.0	2
HM72A-10R47LF	0.38	0.47	0.56	24.8	52	1.30	1.40	4.0	2
HM72A-10R56LF	0.45	0.56	0.67	21.6	49	1.70	1.80	4.0	2
HM72A-101R0LF	0.80	1.00	1.20	18.0	21	2.56	2.75	4.0	2
HM72A-101R5LF	1.20	1.50	1.80	12.0	27.5	5.50	5.80	4.0	2
HM72A-101R8LF	1.44	1.80	2.16	13.0	15	4.50	5.00	4.0	2
HM72A-103R3LF	2.64	3.30	3.96	8.0	18.6	12.50	13.75	4.0	2
HM72A-104R7LF	3.76	4.70	5.64	7.3	17	15.00	16.50	4.0	2
HM72A-12R47LF	0.38	0.47	0.56	40.5	65	1.10	1.30	5.0	2
HMA72-12R50LF	0.40	0.50	0.60	39.0	65	1.30	1.50	5.0	2
HMA72-12R56LF	0.45	0.56	0.67	34.0	55	1.30	1.50	5.0	2
HM72A-121R0LF	0.80	1.00	1.20	26.0	50	2.20	2.50	5.0	2
HM72A-121R5LF	1.20	1.50	1.80	20.0	48	3.60	4.10	5.0	2

#### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability.  
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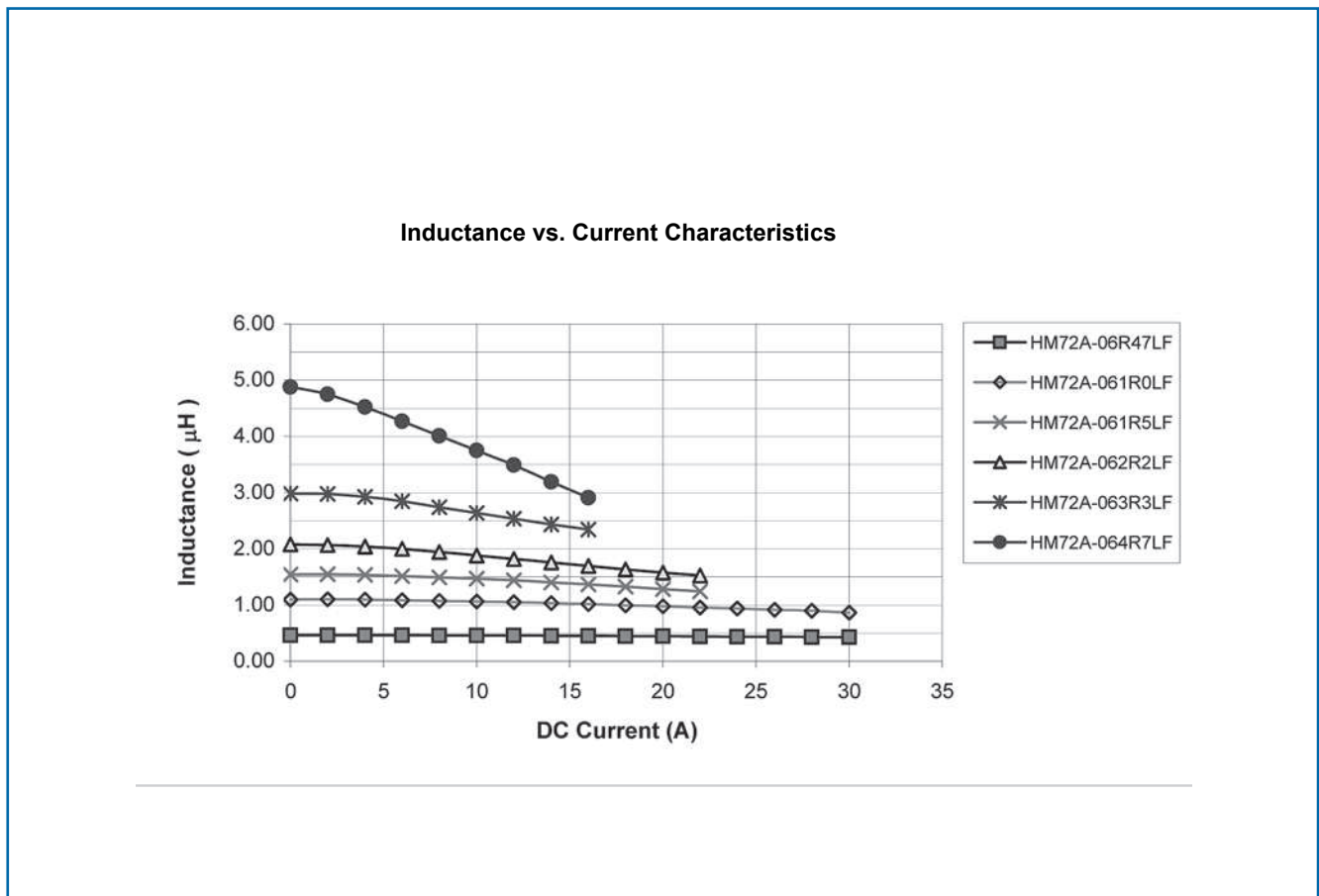
Model HM72A Series

Specifications @ 25°C (Continued)

Part Number	Inductance, Lo @ 100 kHz, 0Adc (μH)			Heating Current <sup>(1)</sup> (Adc)	I <sub>sat</sub> <sup>(2)</sup> (Adc)	DC Resistance (mΩ)		Height C (mm)	Figure
	Min.	Typ.	Max.			Typ.	Max.		
HM72A-122R2LF	1.76	2.20	2.64	17.0	32	5.00	5.50	5.0	2
HM72A-123R3LF	2.64	3.30	3.96	15.0	32	7.70	9.20	5.0	3
HM72A-124R7LF <sup>(3)</sup>	3.76	4.70	5.64	10.7	27 <sup>(3)</sup>	12.80	15.00	5.0	3
HM72A-12100LF	8.00	10.00	12.00	8.3	16	21.40	25.50	5.0	3
HM72A-12R15HLF	0.12	0.15	0.18	56.0	11	8 0.53	0.60	6.5	2
HM72A-12R33HLF	0.26	0.33	0.40	44.8	65	0.83	0.90	6.5	2
HM72A-12R40HLF	0.32	0.40	0.48	43.0	64	0.90	1.00	6.5	2
HM72A-12R47HLF	0.38	0.47	0.56	40.8	63	1.00	1.20	6.5	2
HM72A-12R68HLF	0.54	0.68	0.82	34.5	60	1.40	1.60	6.5	2
HM72A-121R0HLF	0.80	1.00	1.20	31.0	49	1.70	2.00	6.5	2
HM72A-121R5HLF	1.20	1.50	1.80	25.8	45	2.50	3.00	6.5	2
HM72A-122R2HLF	1.76	2.20	2.64	22.0	40	3.50	3.85	6.5	2
HM72A-123R3HLF	2.64	3.30	3.96	19.0	35	5.50	6.80	6.5	3
HM72A-124R7HLF <sup>(3)</sup>	3.76	4.70	5.64	15.0	30 <sup>(3)</sup>	7.20	7.92	6.5	3
HM72A-126R8HLF	5.44	6.80	8.12	11.3	16.5	13.10	14.00	6.5	3
HM72A-12100HLF <sup>(3)</sup>	8.00	10.00	12.00	9.9	15.5 <sup>(3)</sup>	18.00	19.20	6.5	2
HM72A-12200HLF	16.00	20.00	24.00	6.7	13.0	37.00	40.50	6.5	2

- Notes :
- (1) The heating current is the DC current which causes the component temperature to increase by approximately 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.
  - (2) The saturation current (Isat) is the approximate current at which the inductance will be decreased by 20% typical from its initial (zero DC) value.
  - (3) The saturation current (Isat) of HM72A-124R7LF, HM72A-124R7HLF and HM72A-12100HLF is the approximate current at which the inductance will be decreased by 30% typical from its initial (zero DC) value.

Electrical Characteristics @ 25°C

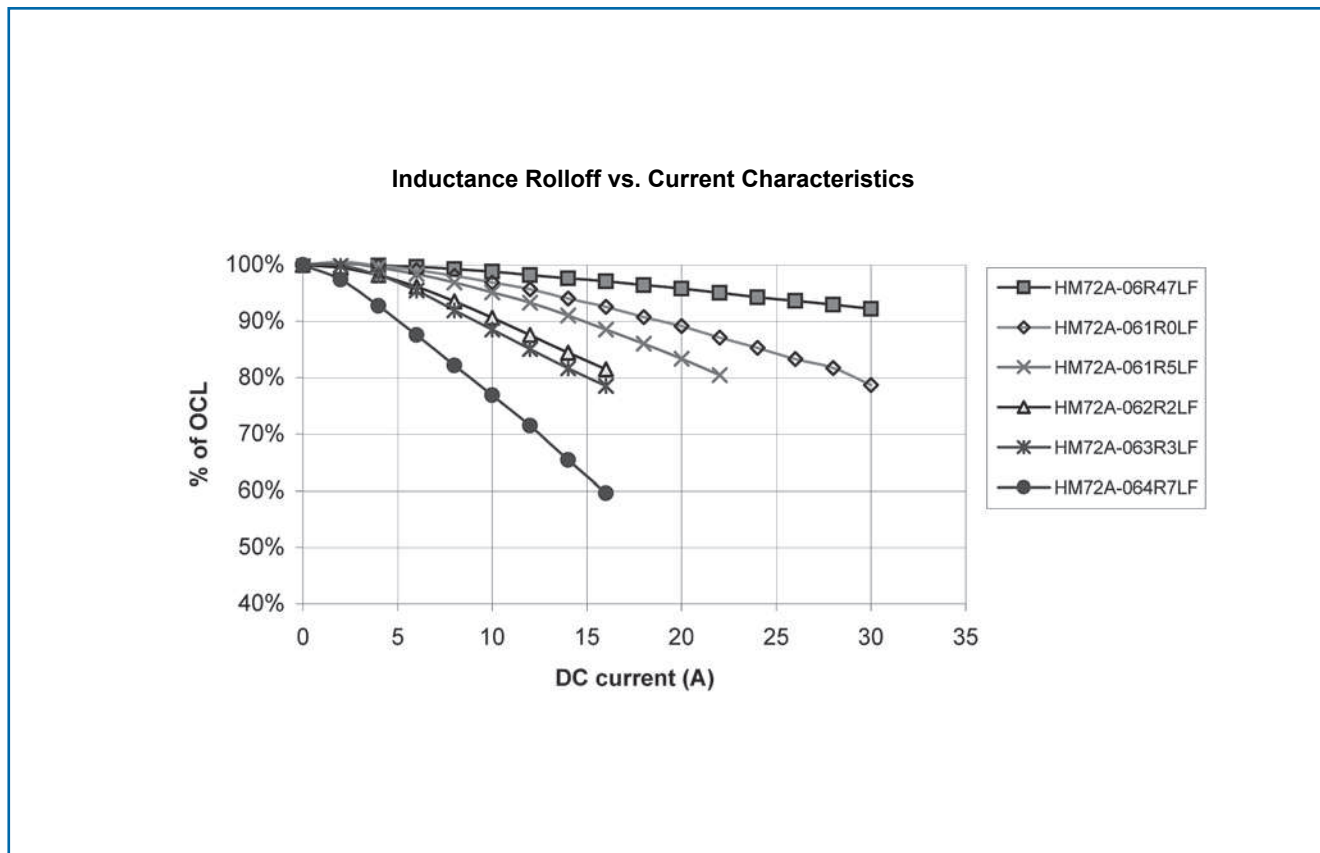


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Model HM72A Series

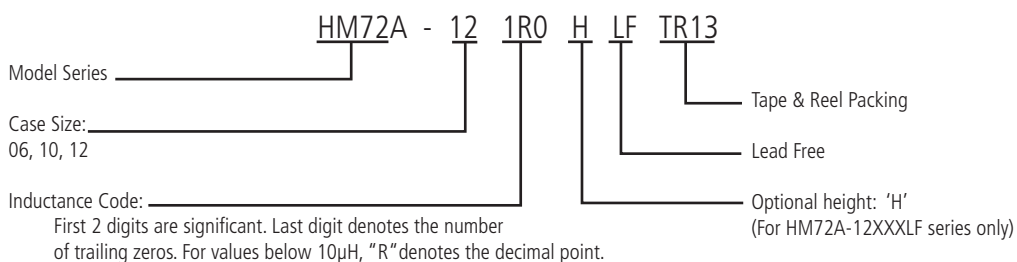
Electrical Characteristics @ 25°C Continued



Packaging

Embossed Tape and Reel			
Standard:	Reel:	Diameter:	= 13" (330.2mm)
		Capacity:	06XXX = 1,000 Units
			10XXX = 500 Units
			12XXX/12XXXH = 400 Units

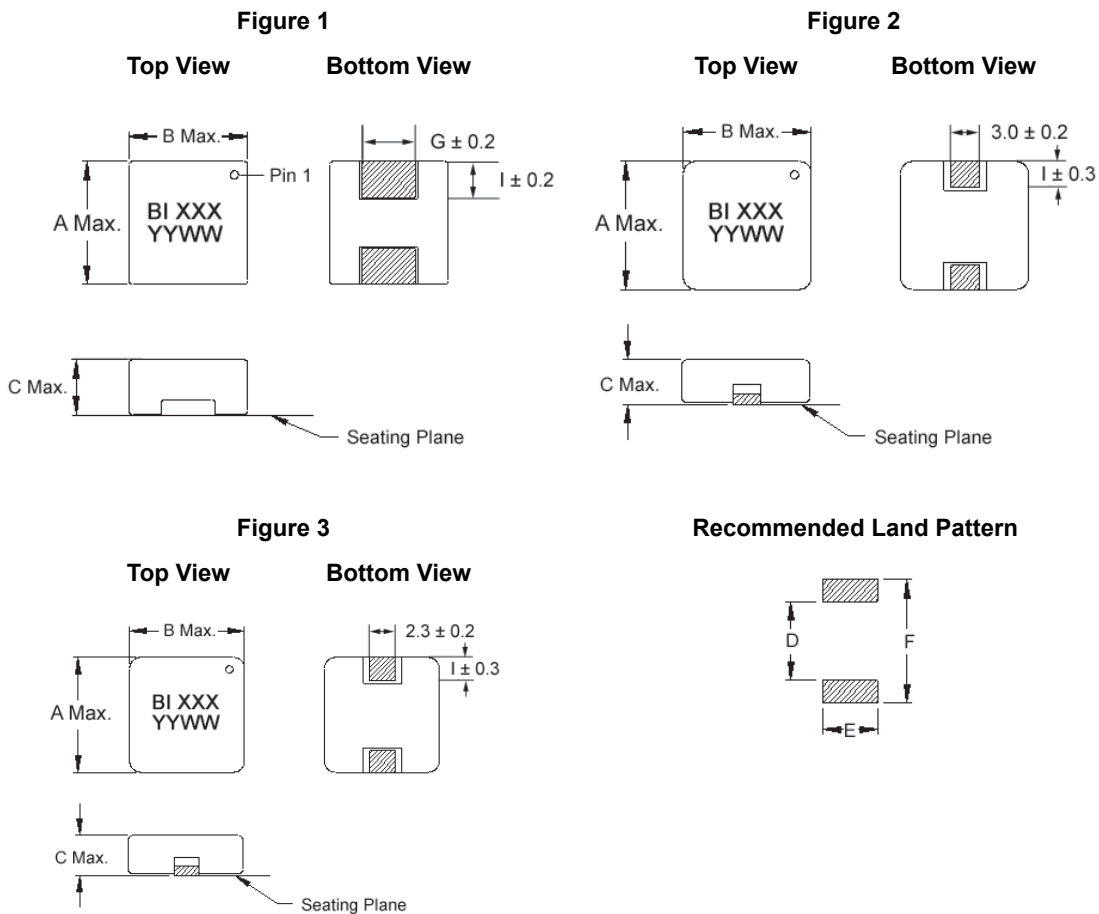
Ordering Information



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## Outline Dimensions (mm)



Case Size	Fig.	A	B	D	E	F	G	I
06	1	7.23	6.8	2.0	3.3	7.4	3.0	2.0
10	2	11.5	10.5	4.9	3.3	11.5	-	2.5
12	2	13.5	13.0	6.9	3.3	13.5	-	2.5
	3	13.5	13.0	6.9	3.3	13.5	-	2.5

Note: Refer to Specifications table for 'C' dimension of each model.

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