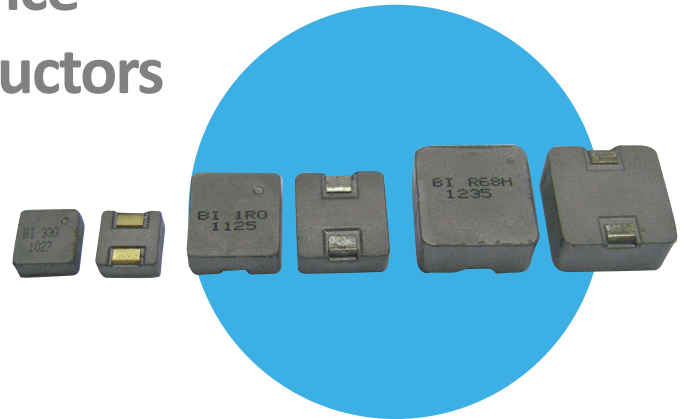


High Power High Performance Molded Surface Mount Inductors

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 ⁽¹⁾ (Adc)	I _{sat} ⁽²⁾ (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-06I1R0LF	0.80	1.00	1.20	10.3	22	9.00	10.00	3.0	1
HM72A-06I1R5LF	1.20	1.50	1.80	8.4	18	14.50	15.00	3.0	1
HM72A-06I2R2LF	1.76	2.20	2.64	8.3	14	15.00	20.00	3.0	1
HM72A-06I3R3LF	2.64	3.30	3.96	6.6	13.5	26.50	28.00	3.0	1
HM72A-06I4R7LF	3.76	4.70	5.64	5.4	10	35.00	40.00	3.0	1
HM72A-06I6R8LF	5.44	6.80	8.16	4.1	8	62.00	68.00	3.0	1
HM72A-06I100LF	8.00	10.00	12.00	3.2	7	100.00	105.00	3.0	1
HM72A-06I220LF	17.6	22.0	26.4	2.2	4.5	219.00	241.00	3.0	1
HM72A-06I330LF	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-10I1R0LF	0.80	1.00	1.20	18.0	21	2.56	2.75	4.0	2
HM72A-10I1R5LF	1.20	1.50	1.80	12.0	27.5	5.50	5.80	4.0	2
HM72A-10I1R8LF	1.44	1.80	2.16	13.0	15	4.50	5.00	4.0	2
HM72A-10I3R3LF	2.64	3.30	3.96	8.0	18.6	12.50	13.75	4.0	2
HM72A-10I4R7LF	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-12I1R0LF	0.80	1.00	1.20	26.0	50	2.20	2.50	5.0	2
HM72A-12I1R5LF	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.
All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

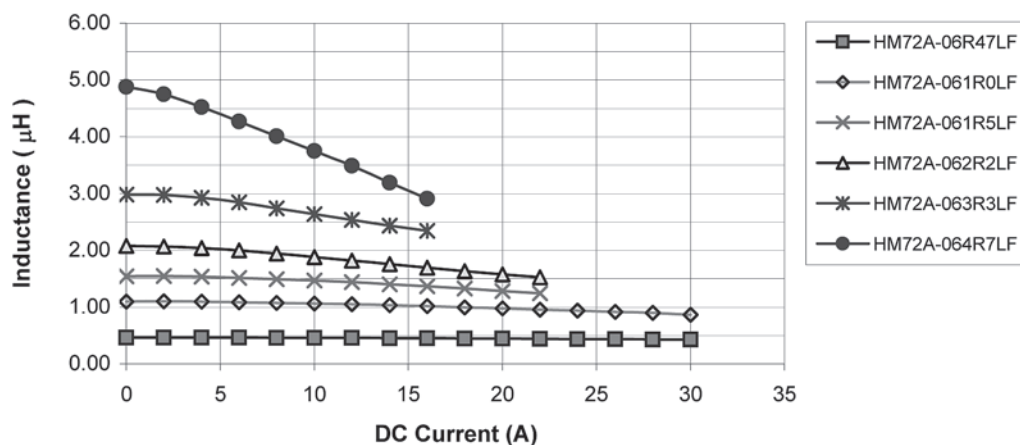
Specifications @ 25°C (Continued)

Part Number	Inductance, Lo @ 100 kHz, 0Adc (μH)			Heating Current ⁽¹⁾ (Adc)	I _{sat} ⁽²⁾ (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 ⁽³⁾	3.76	4.70	5.64	10.7	27 ⁽³⁾	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 ⁽³⁾	3.76	4.70	5.64	15.0	30 ⁽³⁾	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 ⁽³⁾	8.00	10.00	12.00	9.9	15.5 ⁽³⁾	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

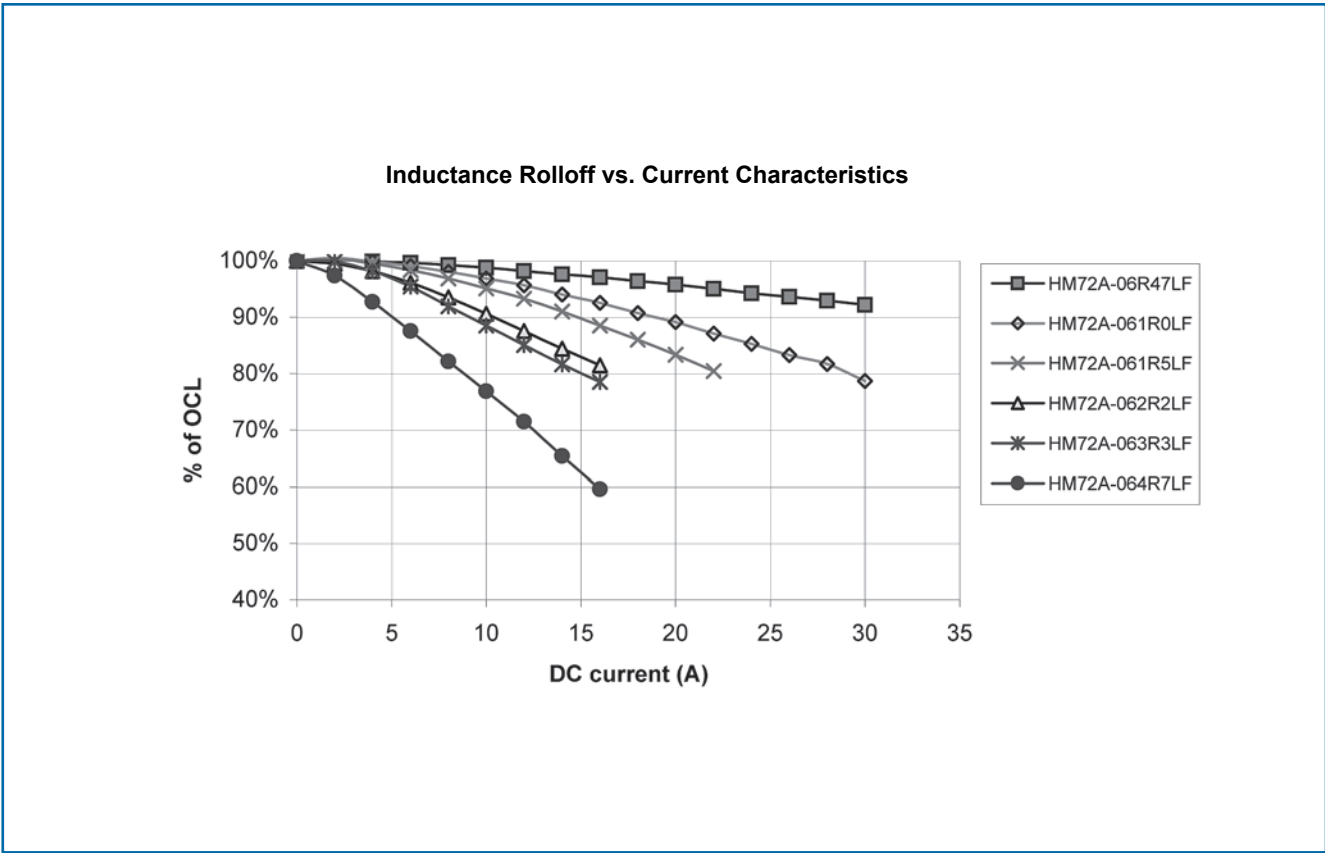
Inductance vs. Current Characteristics



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.

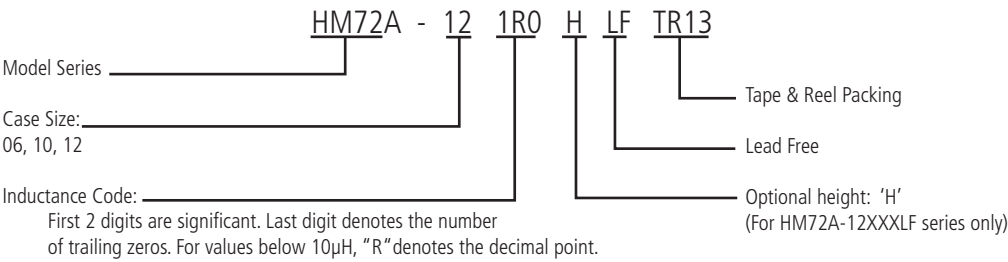
Electrical Characteristics @ 25°C Continued



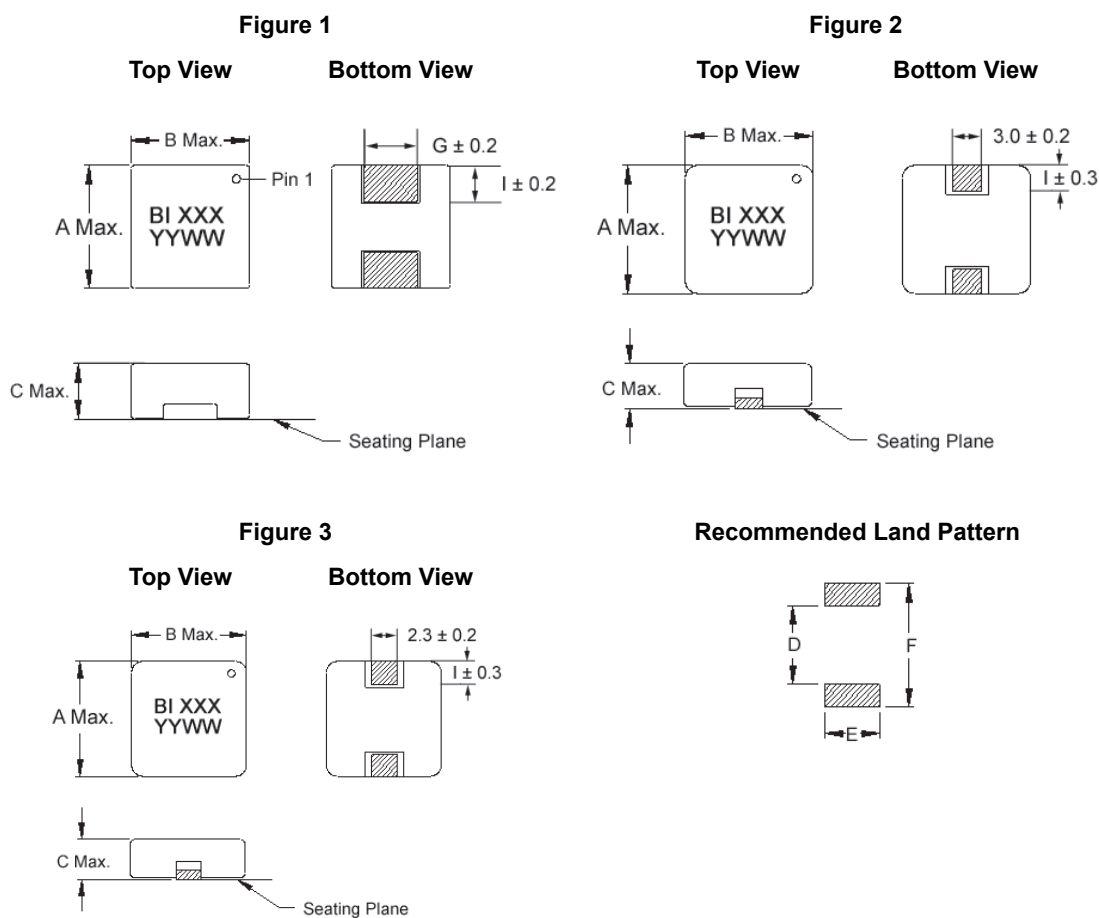
Packaging

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

Ordering Information



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.

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.