

## High power low cost molded SMD Inductor

- Operating Temperature Range -40°C to +155°C
- Storage Temperature Range -40°C to +155°C
- Temperature Rise, Maximum 50°C

**RoHS Compliant**

### Specifications @25°C

Part Number	Inductance, Lo (μH) @100KHz, 0Adc			Heating Current <sup>(2)</sup> (Adc)	I <sub>sat</sub> <sup>(1)</sup> (Adc)	DCR <sup>(3)</sup> (mΩ) Max.		Height C (mm)	Figure
	Min.	Typ.	Max.			Typ.	Max.		
HM72A-06R10	0.08	0.10	0.12	26.2	60	1.5	1.7	3.0	1
HM72A-06R15	0.12	0.15	0.18	23.3	52	1.9	2.5	3.0	1
HM72A-06R20	0.16	0.20	0.24	21.2	41	2.3	3.0	3.0	1
HM72A-06R22	0.18	0.22	0.26	20.3	40	2.5	2.8	3.0	1
HM72A-06R33	0.26	0.33	0.40	18.0	30	3.2	3.9	3.0	1
HM72A-06R47	0.38	0.47	0.56	16.1	26	4.0	4.2	3.0	1
HM72A-06R68	0.54	0.68	0.82	14.4	25	5.0	5.5	3.0	1
HM72A-06R82	0.66	0.82	0.98	12.0	24	7.2	8.0	3.0	1
HM72A-061R0	0.80	1.00	1.20	10.3	22	9.0	10.0	3.0	1
HM72A-061R5	1.20	1.50	1.80	8.4	18	14.5	15.0	3.0	1
HM72A-062R2	1.76	2.20	2.64	8.3	14	15.0	20.0	3.0	1
HM72A-063R3	2.64	3.30	3.96	6.6	13.5	26.5	28.0	3.0	1
HM72A-064R7	3.76	4.70	5.64	5.4	10	35.0	40.0	3.0	1
HM72A-066R8	5.44	6.80	8.16	4.1	8	62.0	68.0	3.0	1
HM72A-06100	8.0	10.0	12.0	3.2	7	100	105	3.0	1
HM72A-06220	17.6	22.0	26.4	2.2	4.5	219	241	3.0	1
HM72A-06330	26.4	33.0	39.6	1.8	3.5	302	332	3.0	1
HM72A-10R15	0.12	0.15	0.18	33.0	44	0.75	0.82	4.0	2
HM72A-10R19	0.15	0.19	0.23	40.0	44	0.50	0.60	4.0	2
HM72A-10R24	0.19	0.24	0.29	35.0	38	0.65	0.72	4.0	2
HM72A-10R36	.288	.360	0.432	32.0	35	0.85	0.95	4.0	2
HM72A-10R47	0.38	0.47	0.56	27.0	32	1.10	1.20	4.0	2
HM72A-10R56	0.448	0.560	0.672	23.0	30	1.55	1.70	4.0	2
HM72A-101R0	0.80	1.00	1.20	18.0	21	2.56	2.75	4.0	2
HM72A-101R5	1.20	1.50	1.80	13.0	18	4.5	5.0	4.0	2
HM72A-101R8	1.44	1.80	2.16	13.0	15	4.5	5.0	4.0	2
HM72A-103R3	2.64	3.30	3.96	8.0	12	12.5	13.75	4.0	2
HM72A-104R7	3.76	4.70	5.64	7.6	10	13.8	15.20	4.0	2
HM72A-12R10L	0.08	0.10	0.12	40.0	84	0.80	0.96	3.5	2

HM72A-12R47L	0.38	0.47	0.56	31.0	55	1.30	1.43	3.5	2
HM72A-12R68L	0.54	0.68	0.82	27.0	49	2.30	2.50	3.5	2
HM72A-12R82L	0.66	0.82	0.98	22.0	44	2.40	3.00	3.5	2
HM72A-121R0L	0.80	1.00	1.20	19.0	42	3.40	3.60	3.5	2
HM72A-121R5L	1.20	1.50	1.80	16.0	35	5.10	5.50	3.5	2
HM72A-122R2L	1.76	2.20	2.64	13.3	29	7.20	8.00	3.5	2
HM72A-123R3L	2.64	3.30	3.96	10.8	27	11.0	12.0	3.5	2
HM72A-124R7L	3.76	4.70	5.64	10.0	24	14.0	15.0	3.5	2
HM72A-125R6L	4.48	5.60	6.72	8.0	19	22.5	24.75	3.5	2
HM72A-126R8L	5.44	6.80	8.16	8.0	18	19.8	22.0	3.5	2
HM72A-12R47	0.38	0.47	0.56	40.5	65	0.90	1.00	5.0	2
HM72A-12R50	0.40	0.50	0.60	39.0	65	1.30	1.50	5.0	2
HM72A-12R56	0.45	0.56	0.67	34.0	55	1.30	1.50	5.0	2
HM72A-121R0	0.80	1.00	1.20	26.0	50	2.20	2.50	5.0	2
HM72A-121R5	1.20	1.50	1.80	20.0	48	3.60	4.10	5.0	2
HM72A-122R2	1.76	2.20	2.64	17.0	32	5.00	5.50	5.0	2
HM72A-123R3	2.64	3.30	3.96	15.0	32	7.70	9.20	5.0	2
HM72A-124R7*	3.76	4.70	5.64	10.7	27	12.8	15.0	5.0	2
HM72A-12100	8	10	12	8.3	16	21.4	25.5	5.0	2
HM72A-12R15H	0.12	0.15	0.18	56.0	118	0.53	0.60	6.5	2
HM72A-12R33H	0.26	0.33	0.40	44.8	65	0.83	0.90	6.5	2
HM72A-12R40H	0.32	0.40	0.48	43.0	64	0.90	1.00	6.5	2
HM72A-12R47H	0.38	0.47	0.56	40.8	63	1.00	1.20	6.5	2
HM72A-12R68H	0.54	0.68	0.82	34.5	60	1.40	1.60	6.5	2
HM72A-121R0H	0.80	1.00	1.20	31.0	49	1.70	2.00	6.5	2
HM72A-121R5H	1.20	1.50	1.80	25.8	45	2.50	3.00	6.5	2
HM72A-122R2H	1.76	2.20	2.64	22.0	40	3.50	3.85	6.5	2
HM72A-123R3H	2.64	3.30	3.96	19.0	35	5.50	6.80	6.5	2
HM72A-124R7H	3.76	4.70	5.64	15.0	30	7.20	7.92	6.5	2
HM72A-12200H	16.0	20.0	24.0	6.7	13.0	37.0	40.5	6.5	2

**Notes:**

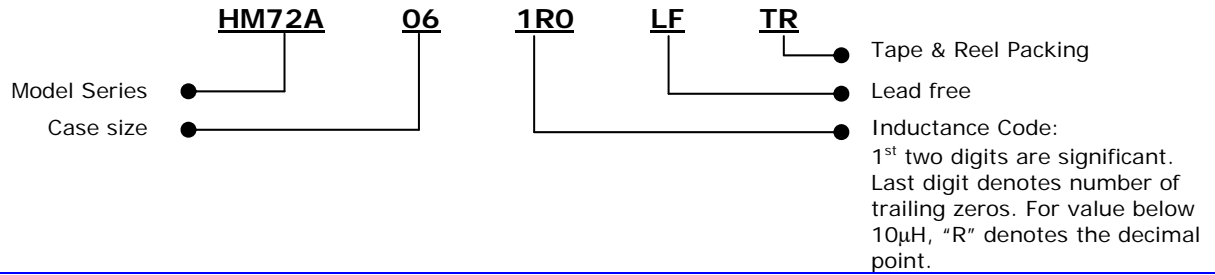
- (1) *I<sub>sat</sub>* Current is the approximate current at which inductance will be decreased by 20 % typical from its initial (zero DC) value. \* **HM72A-124R7 decreased by 30 % typical.**
- (2) The heating current is the DC current, which causes the component temperature to increase by approximately 50°C. This current is determined by soldering the component on a typical application PCB, and then apply the current to the device for 30 minutes.
- (3) DC Resistance is measured at 25°C.

**Packaging**

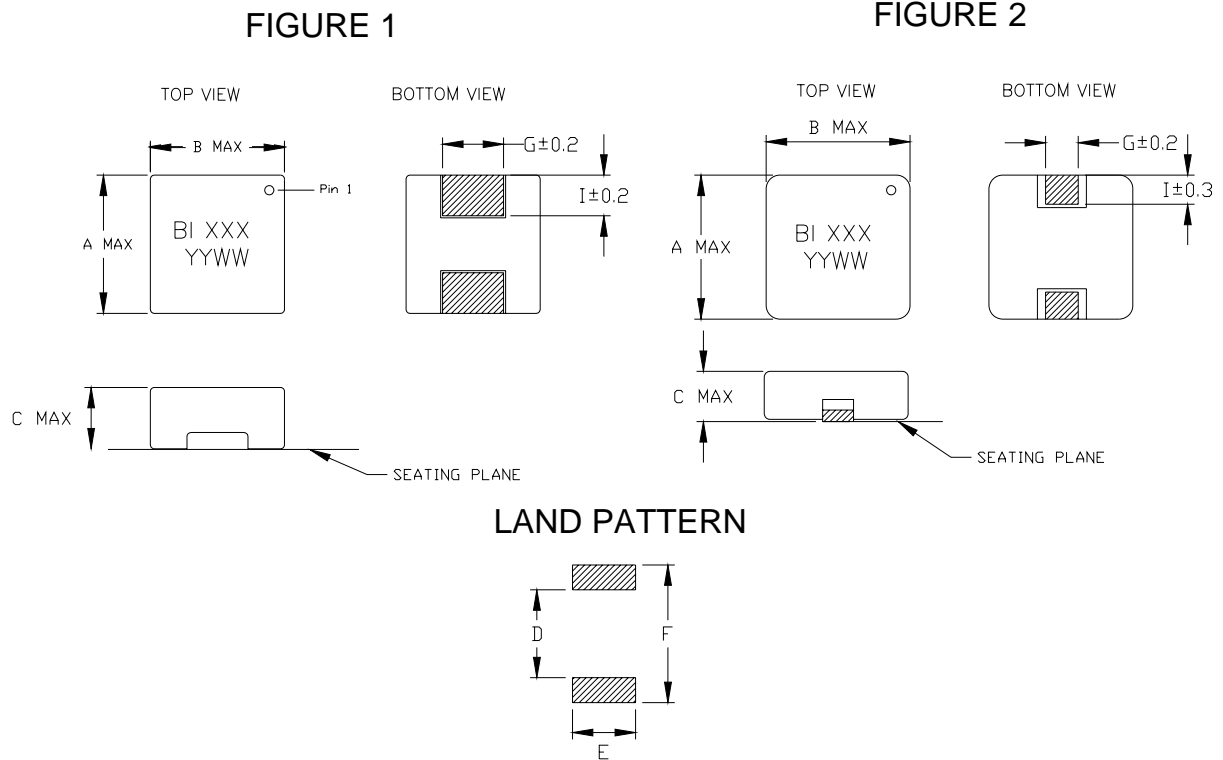
**STANDARD:** Embossed Tape & Reel

Reel :	Diameter :	13" (330.2mm)
	Capacity :	06xxx 1000
		10xxx 500
		12xxxL 500
		12xxx/12xxxH 400

## Ordering Information



## Outline Dimensions (mm)



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

The "G" dimensions of HM72A-123R3H ~ 124R7H / -123R3 ~ 12100 / -121R0L ~ 126R8L is 2.3mm

Electrical Characteristic @ 25°C

