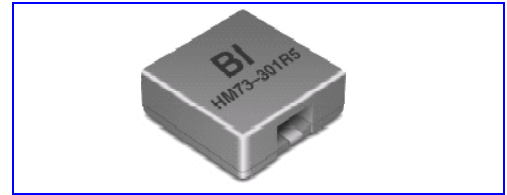


# HM 73 SERIES

Shielded  
Low Profile  
Surface Mount Inductors

## Features And Benefits

- Magnetic shielded construction for high-density board assembly
- High performance, excellent DC current characteristics
- Large energy storage capacity
- Up to 40 amps continuous
- Compatible with vapor phase and infrared
- Customer design available



## Applications

- Laptop and notebook computer and PDAs
- DC/DC converters in distributed power systems and handheld equipment
- Inductor for general purpose use

## Electrical / Environmental

- Operating Temperature Range -40°C to +155°C
- Storage Temperature Range -40°C to +155°C
- Ambient Temperature, Maximum 80°C
- Temperature Rise, Maximum 50°C

## Specifications

Part Number	-Inductance- @100KHz,0.1V		Rated <sup>(1)</sup> Current Amps	Heating <sup>(3)</sup> Current Amps	Isat <sup>(4)</sup> Current Amps	DC Resistance <sup>(2)</sup>		Height Inch/mm Max.	Figure
	@0Adc ( $\mu\text{H}\pm 20\%$ )	@Rated Current				m $\Omega$ Typ.	m $\Omega$ Max.		
HM73-10R10	0.10	0.09	22.0	26.7	38.0	1.4	1.65	0.138/3.50	2
HM73-10R10L	0.10	0.09	22.0	28.0	38.0	1.2	1.40	0.118/3.00	1
HM73-10R20	0.22	0.20	17.0	23.0	23.0	1.8	2.10	0.138/3.50	2
HM73-10R20L	0.22	0.20	17.0	23.0	23.0	1.8	2.10	0.118/3.00	1
HM73-10R47	0.47	0.42	15.0	19.2	23.0	2.7	3.16	0.169/4.30	1
HM73-10R68	0.68	0.64	12.0	14.9	28.0	4.5	5.20	0.158/4.00	1
HM73-101R0	1.00	1.00	8.5	14.9	15.0	5.2	7.00	0.158/4.00	1
HM73-101R5	1.50	1.30	6.5	12.7	11.0	6.2	8.30	0.177/4.50	1
HM73-102R0	2.00	1.70	8.0	11.8	11.0	7.2	8.30	0.177/4.5	1
<b>HM73-106R0</b>	<b>6.00</b>	<b>5.00</b>	<b>3.5</b>	<b>6.0</b>	<b>4.8</b>	<b>26</b>	<b>30.0</b>	<b>0.197/5.00</b>	<b>1</b>
<b>HM73-106R4</b>	<b>6.40</b>	<b>5.80</b>	<b>3.5</b>	<b>6.0</b>	<b>6.0</b>	<b>26</b>	<b>30.0</b>	<b>0.197/5.00</b>	<b>1</b>
HM73-15R10	0.10	0.10	30.0	40.8	51.0	0.6	0.70	0.185/4.70	1
HM73-15R20	0.20	0.17	21.0	35.3	40.0	0.8	0.90	0.158/4.00	1
HM73-15R47	0.47	0.42	17.0	26.7	35.0	1.4	1.55	0.158/4.00	1
HM73-15R70	0.70	0.65	16.0	27.7	30.0	1.3	1.50	0.177/4.50	1
HM73-151R0	1.00	0.95	10.0	22.0	18.0	2.0	2.20	0.220/5.60	1
HM73-151R2	1.20	1.07	14	23.0	23.0	2.0	2.3	0.232/5.9	1
<b>HM73-151R5</b>	<b>1.50</b>	<b>1.33</b>	<b>10.0</b>	<b>22.9</b>	<b>25.0</b>	<b>1.90</b>	<b>2.20</b>	<b>0.216/5.50</b>	<b>1</b>
HM73-152R2	2.20	2.10	8.0	16.1	13.0	3.85	4.60	0.216/5.50	1
<b>HM73-154R7</b>	<b>4.70</b>	<b>3.5</b>	<b>10.0</b>	<b>15.6</b>	<b>16.0</b>	<b>4.80</b>	<b>5.00</b>	<b>0.288/7.30</b>	<b>1</b>

We reserve the right to change specifications without prior notice.

# HM 73 SERIES

Shielded  
Low Profile  
Surface Mount Inductors

## Specifications

Part Number	-Inductance- @100KHz,0.1V		Rated <sup>(1)</sup> Current Amps	Heating <sup>(3)</sup> Current Amps	Isat <sup>(4)</sup> Current Amps	DC Resistance <sup>(2)</sup>		Height Inch/mm Max.	Figure
	@0A DC ( $\mu\text{H}\pm 20\%$ )	@Rated Current ( $\mu\text{H}$ )				m $\Omega$ Typ.	m $\Omega$ Max.		
HM73-201R0	1.00	0.91	16.0	18.8	32.0	2.8	3.30	0.177/4.50	1
HM73-201R5	1.50	1.43	13.0	16.4	22.0	3.7	4.40	0.177/4.50	1
HM73-30R60	0.60	0.54	27.0	30.1	40.0	1.1	1.25	0.216/5.50	1
HM73-301R0	1.00	0.89	23.0	25.8	34.0	1.5	1.70	0.216/5.50	1
HM73-301R5	1.50	1.25	18.0	22.9	30.0	1.9	2.30	0.223/5.65	1
HM73-302R2	2.20	2.00	12.0	15.0	24.0	4.4	5.10	0.216/5.50	1
HM73-303R9	3.90	3.60	10.0	13.7	18.0	5.7	7.20	0.216/5.50	1
HM73-304R6	4.60	4.10	9.0	12.4	14.0	6.5	8.30	0.216/5.50	1
HM73-316R4	6.40	5.65	6.5	7.76	16.0	16.6	25.00	0.197/5.00	2
HM73-318R2	8.20	7.72	5.6	7.29	16.0	18.8	26.00	0.197/5.00	2
HM73-31100	10.0	8.90	6.0	6.9	10.0	20.8	26.00	0.197/5.00	2
HM73-40R15	0.15	0.13	40.0	44.72	80.0	0.5	0.55	0.256/6.50	1
HM73-40R30	0.30	0.27	40.0	40.8	73.0	0.5	0.65	0.256/6.50	1
<b>HM73-40R40</b>	<b>0.40</b>	<b>0.37</b>	<b>40.0</b>	<b>40.0</b>	<b>61.0</b>	<b>0.65</b>	<b>1.00</b>	<b>0.256/6.50</b>	<b>1</b>
HM73-40R50	0.50	0.46	40.0	40.0	49.0	0.8	1.00	0.256/6.50	1
HM73-40R90	0.90	0.80	25.0	28.8	40.0	1.2	1.40	0.256/6.50	1
HM73-402R2	2.20	1.90	15.0	20.8	27.0	2.3	2.60	0.256/6.50	1
<b>HM73-509R1</b>	<b>9.10</b>	<b>7.40</b>	<b>8.0</b>	<b>10.5</b>	<b>15.0</b>	<b>9.1</b>	<b>10.8</b>	<b>0.295/7.50</b>	<b>1</b>
<b>HM73-50100</b>	<b>10.0</b>	<b>8.49</b>	<b>8.0</b>	<b>10.2</b>	<b>15.0</b>	<b>9.6</b>	<b>11.4</b>	<b>0.295/7.50</b>	<b>1</b>
<b>HM73-50120</b>	<b>12.0</b>	<b>10.59</b>	<b>7.0</b>	<b>8.7</b>	<b>13.0</b>	<b>13.0</b>	<b>15.0</b>	<b>0.295/7.50</b>	<b>1</b>
<b>HM73-50140</b>	<b>14.0</b>	<b>12.00</b>	<b>5.5</b>	<b>9.5</b>	<b>10.0</b>	<b>11.0</b>	<b>13.2</b>	<b>0.335/8.50</b>	<b>1</b>
<b>HM73-5015R5</b>	<b>15.5</b>	<b>13.00</b>	<b>5.0</b>	<b>9.9</b>	<b>10.0</b>	<b>15.0</b>	<b>18.2</b>	<b>0.315/8.00</b>	<b>1</b>
<b>HM73-5020R9</b>	<b>20.9</b>	<b>17.00</b>	<b>4.5</b>	<b>11.2</b>	<b>8.0</b>	<b>16.0</b>	<b>19.0</b>	<b>0.315/8.00</b>	<b>1</b>
<b>HM73-5026R5</b>	<b>26.5</b>	<b>22.50</b>	<b>4.6</b>	<b>10.6</b>	<b>8.8</b>	<b>21.0</b>	<b>25.2</b>	<b>0.355/9.00</b>	<b>1</b>

**Notes:** (1) The rated current is approximate current at which inductance will decreased by 20% from its initial (Zero DC) value.

(2) DC Resistance is measured at 25°C.

(3) The Heating Current is the DC current, which cause the component temperature to increase by Approximately 50°C. This current is determined by soldering the component on a typical PCB, and Then apply the current to the component for 30 minutes.

(4) Isat is the saturation current at which inductance rolls off approximately 30% from its initial Unbias inductance value.

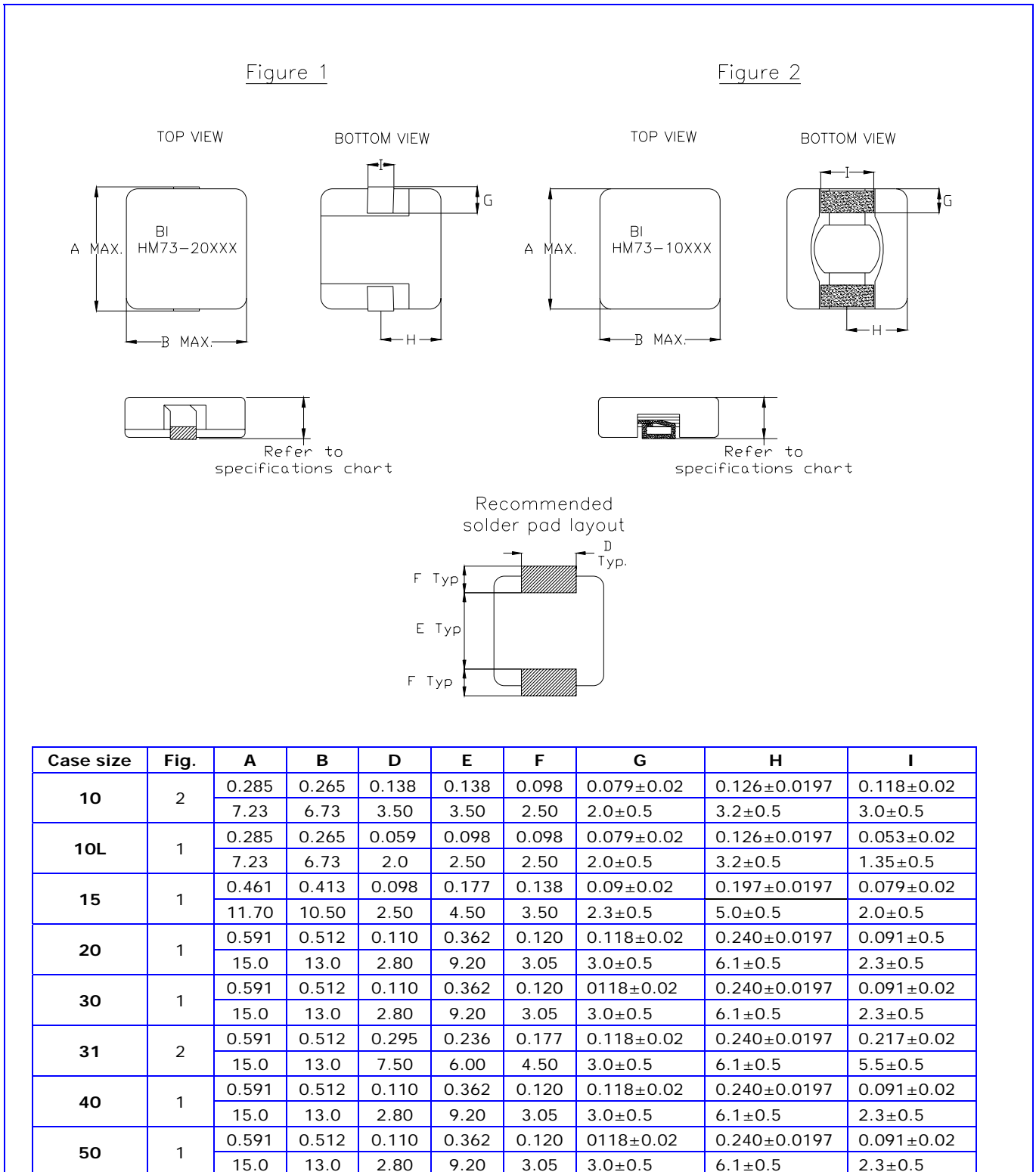
(5) Box layout, proximity of other component, trace size and airflow will affect temperature rise and must be considered when selecting an inductor.

We reserve the right to change specifications without prior notice.

# HM 73 SERIES

Shielded  
Low Profile  
Surface Mount Inductors

## Outline Dimensions (Inch/mm)



We reserve the right to change specifications without prior notice.

# HM 73 SERIES

Shielded  
Low Profile  
Surface Mount Inductors

## Packaging

Tape & Reel		
Case Size	Reel Size	Qty per Reel
10 & 10L	Ø =13"	1000
	Ø =7"	250
15	Ø =13"	400
20	Ø =13"	400
30 & 31	Ø =13"	400
40	Ø =13"	400
50	Ø =13"	250

## Ordering Information

HM73	-	XX		XXX	-	XX	XX	Inductance Code: 1 <sup>st</sup> two digits are significant. Last digit denotes number of trailing zeros. Value below 10uH, "R" denotes decimal point.
		Case Size		Ind Code		LF = Lead Free  Blank if non lead free	13 = Tape & reel with 13" reel Size. 7 = Tape & reel with 7" reel Size.	

*We reserve the right to change specifications without prior notice.*