

# Molding Type High Current Power Inductors

## HMI 0412-1770 Series



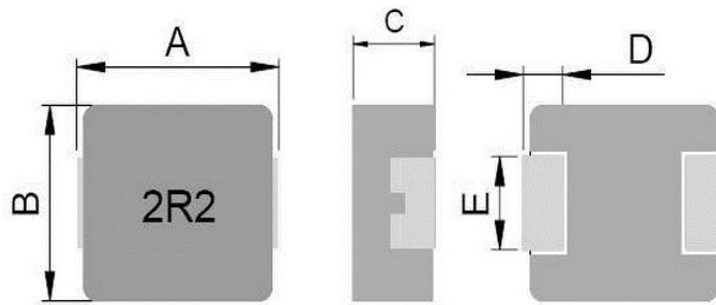
### Features

- Carbonyl powder inductor.
- Compact design.
- High current, low DCR, high efficiency.
- Very low acoustic noise and very low leakage flux noise.
- High reliability.

### Tolerance

- ( M 20% , N 30% )

### Configurations & Dimensions



### Dimensions

### Chip Size

### Units:mm

TYPE	A	B	C	D	E
HMI0412	4.45±0.25	4.0±0.3	1.2max	0.8±0.3	1.5±0.3
HMI0420	4.45±0.25	4.0±0.3	2.0max	0.8±0.3	1.5±0.3
HMI0512	5.30±0.40	4.7±0.3	1.2max	1.0±0.5	2.0±0.5
HMI0515	5.30±0.40	4.7±0.3	1.5max	1.0±0.5	2.0±0.5
HMI0518	5.30±0.40	4.7±0.3	1.8max	1.0±0.5	2.0±0.5
HMI0520	5.30±0.40	4.7±0.3	2.0max	1.0±0.5	2.0±0.5
HMI0530	5.30±0.40	4.7±0.3	3.0max	1.0±0.5	2.0±0.5
HMI0612	6.00±0.50	6.0±0.3	1.2max	1.6±0.5	3.0±0.5
HMI0615	6.00±0.50	6.60±0.3	1.5max	1.6±0.5	3.0±0.5
HMI0618	7.20±0.50	6.60±0.3	1.8max	1.6±0.5	3.0±0.5
HMI0620	7.20±0.50	6.60±0.3	2.0max	1.6±0.5	3.0±0.5
HMI0624	7.20±0.50	6.60±0.3	2.4max	1.6±0.5	3.0±0.5
HMI0630	7.20±0.50	6.60±0.3	3.0max	1.6±0.5	3.0±0.5
HMI0640	7.20±0.50	6.60±0.3	4.0max	1.6±0.5	3.0±0.5
HMI0650	7.20±0.50	6.60±0.3	5.0max	1.6±0.5	3.0±0.5
HMI1004	11.50±1.00	10.00±0.5	4.0max	2.2±0.5	3.0±0.5
HMI1005	11.50±1.00	10.00±0.5	5.0max	2.2±0.5	3.0±0.5
HMI1250	13.50±1.00	12.80±0.5	5.0max	2.5±0.5	3.8±0.5
HMI1260	13.50±1.00	12.80±0.5	6.5max	2.5±0.5	3.8±0.5
HMI1770	18.0±0.50	17.2max	7.2max	2.7±0.5	11.9±0.3

Design as Customer's Requested Specifications.

# Molding Type High Current Power Inductors

## HMI 0412 Series



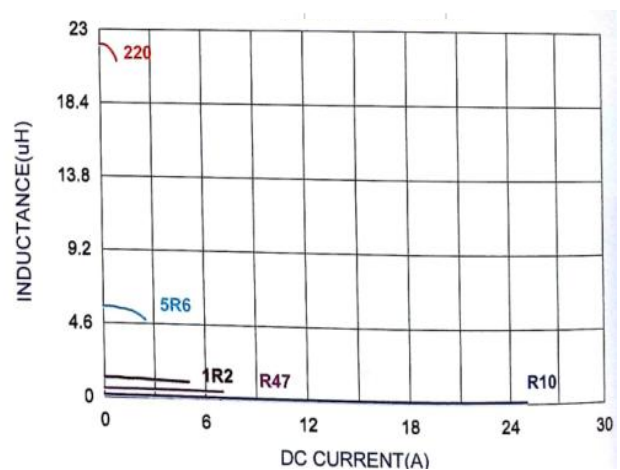
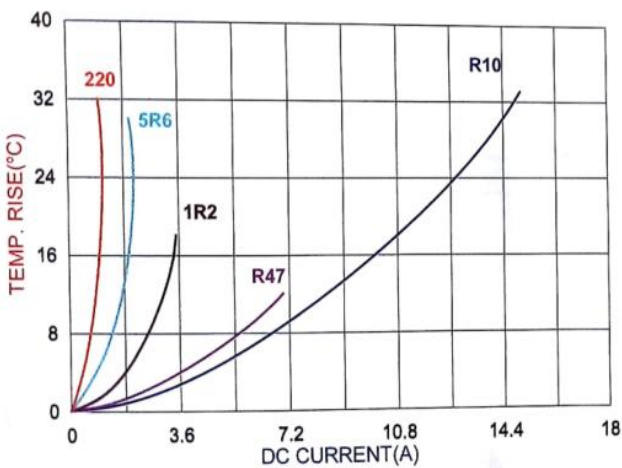
### Specifications HMI0412

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0412-R10N	0.10	30	11.5	25.0	4.3	6
HMI0412-R47M	0.47	20	6.0	6.5	18.0	20
HMI0412-R68M	0.68	20	5.0	6.0	32.0	37
HMI0412-1R0M	1.0	20	4.0	6.0	41.0	47
HMI0412-2R2M	2.2	20	2.8	3.5	69.2	80
HMI0412-3R3M	3.3	20	2.3	3.0	84	97
HMI0412-4R7M	4.7	20	2.0	2.5	128	145
HMI0412-5R6M	5.6	20	1.7	2.3	180	208
HMI0412-6R8M	6.8	20	1.5	1.7	300	360
HMI0412-100M	10.0	20	1.3	1.4	410	463

#### Note:

1. Test frequency: L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current (Isat) will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 0420 Series



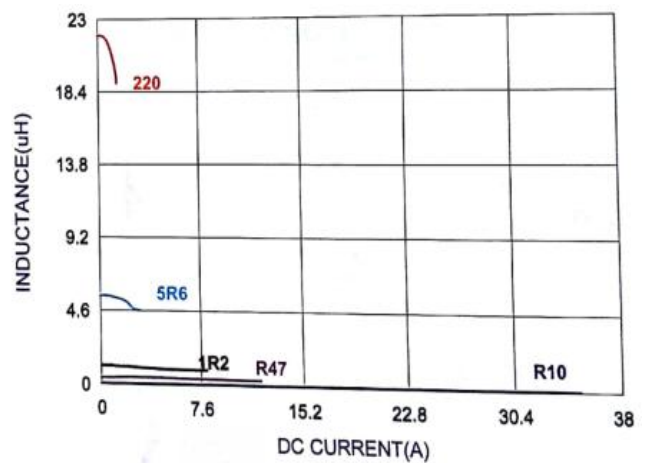
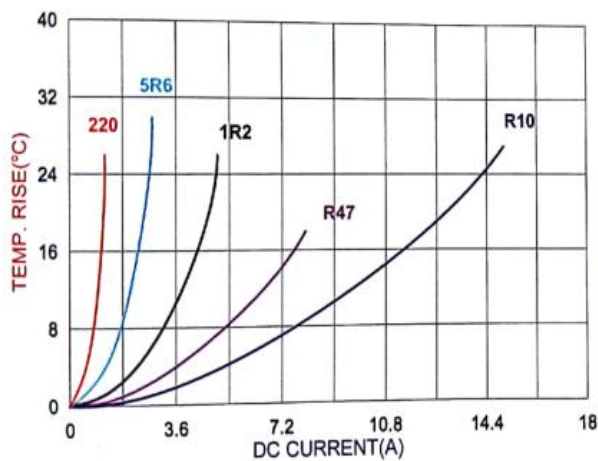
### Specifications HMI0420

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0420-R33N	0.33	20	10.0	18.0	7.8	9
HMI0420-R47M	0.47	20	8.0	12.0	11.2	14
HMI0420-R68M	0.68	20	7.0	10.0	16.0	19
HMI0420-1R0M	1.0	20	5.0	8.5	22.0	27
HMI0420-2R2M	2.2	20	4.0	6.0	51.0	61
HMI0420-3R3M	3.3	20	3.5	4.0	69.0	76
HMI0420-4R7M	4.7	20	2.6	3.5	95	105
HMI0420-5R6M	5.6	20	2.1	2.8	150	172
HMI0420-6R8M	6.8	20	1.8	2.3	215	243
HMI0420-100M	10.0	20	1.2	1.4	470	500

#### Note:

1. Test frequency: L: 100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (Irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current (Isat) will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 0512 Series



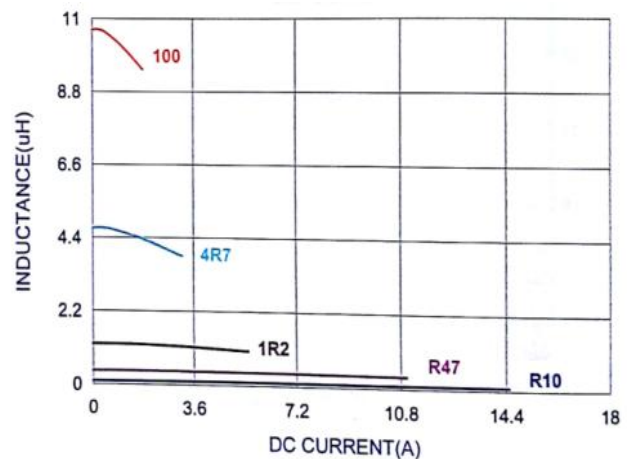
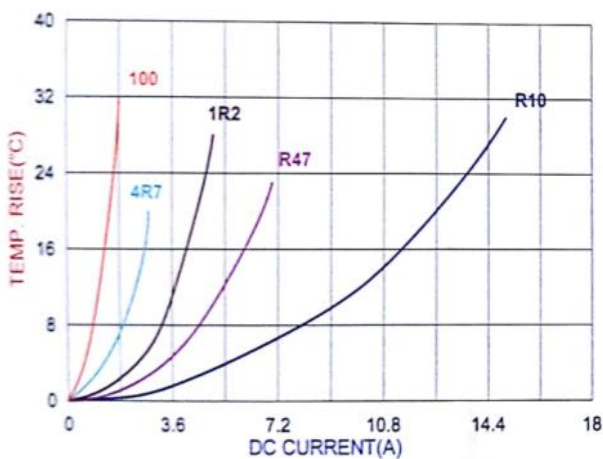
### Specifications HMI0512

Part Number	Inductance (uH)	Tolerance (%)	I <sub>rms</sub> (A) typ	I <sub>sat</sub> (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0512-R10N	0.10	30	14.0	14.5	4.3	5.2
HMI0512-R47M	0.47	20	7.0	11.0	13.6	15.8
HMI0512-R68M	0.68	20	6.0	9.0	21.5	24.5
HMI0512-1R0M	1.0	20	5.0	6.0	26.0	30
HMI0512-2R2M	2.2	20	3.5	4.0	65.0	75
HMI0512-3R3M	3.3	20	3.0	3.8	75.0	86
HMI0512-4R7M	4.7	20	2.5	3.2	100	115
HMI0512-5R6M	5.6	20	2.4	3.2	175	201
HMI0512-6R8M	6.8	20	2.0	3.0	193	222
HMI0512-100M	10.0	20	1.5	1.8	335	385

#### Note:

1. Test frequency: L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (I<sub>rms</sub>) will cause the coil temperature rise approximately Δt of 40°C (keep 1min)
4. Saturation current (I<sub>sat</sub>) will cause L<sub>0</sub> to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 0515 Series



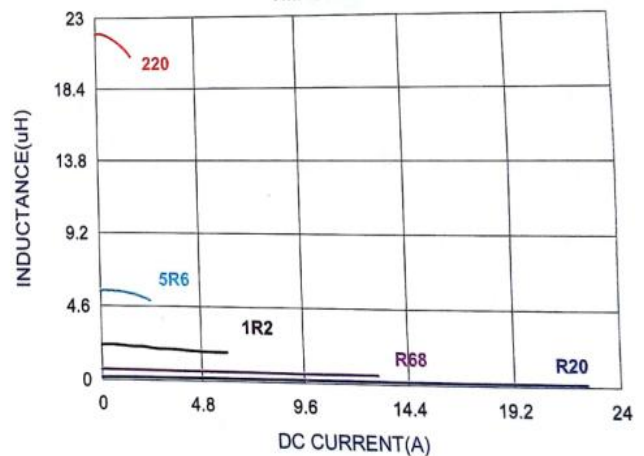
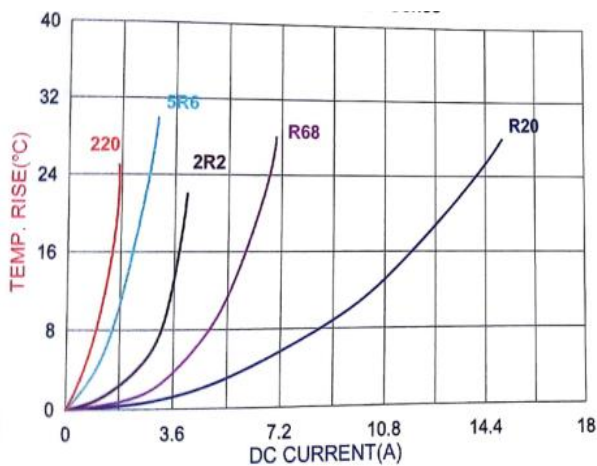
### Specifications HMI0515

Part Number	Inductance (uH)	Tolerance (%)	I <sub>rms</sub> (A) typ	I <sub>sat</sub> (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0515-R20N	0.20	30	15.0	22.5	3.8	4.2
HMI0515-R47M	0.47	20	8.0	15.0	12	13.8
HMI0515-R68M	0.68	20	7.0	13.0	14	16.2
HMI0515-1R0M	1.0	20	6.0	9.0	22	25
HMI0515-2R2M	2.2	20	4.0	6.0	45	52
HMI0515-3R3M	3.3	20	3.2	4.5	78	90
HMI0515-4R7M	4.7	20	2.7	4.0	103	118
HMI0515-5R6M	5.6	20	2.4	3.2	126	152
HMI0515-6R8M	6.8	20	2.3	3.0	142	171
HMI0515-100M	10.0	20	2.0	2.3	210	235
HMI0515-220M	22.0	20	1.2	1.7	405	466

#### Note:

1. Test frequency:L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current(irms)will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current(Isat)will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 0518 Series



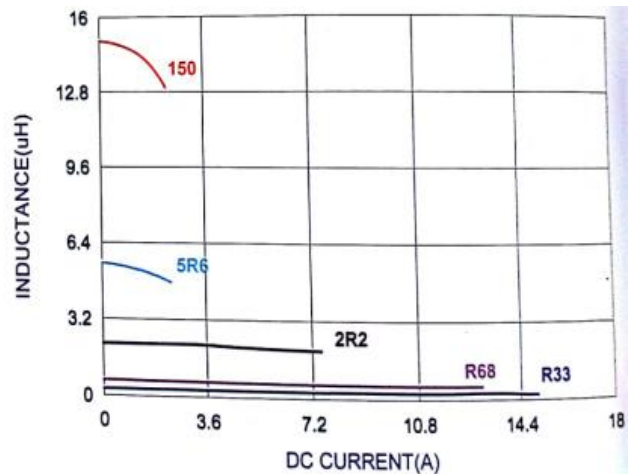
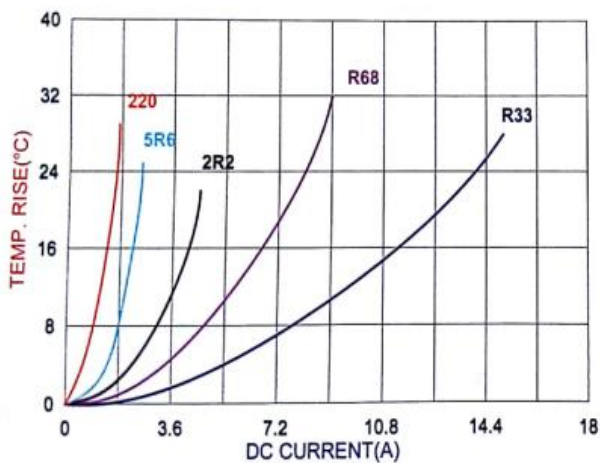
### Specifications HMI0518

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0518-R22N	0.22	30	11.0	15.0	7.5	8.6
HMI0518-R47M	0.47	20	10.0	14.0	9.8	11.3
HMI0518-R68M	0.68	20	9.0	13.0	12.4	14.3
HMI0518-1R0M	1.0	20	6.8	10.0	18.2	21.0
HMI0518-2R2M	2.2	20	4.5	7.5	42	48.3
HMI0518-3R3M	3.3	20	3.5	5.0	60	69
HMI0518-4R7M	4.7	20	3.0	4.5	85	98
HMI0518-5R6M	5.6	20	2.5	4.0	110	127
HMI0518-6R8M	6.8	20	2.4	3.5	118	137
HMI0518-100M	10.0	20	2.3	2.8	165	190
HMI0518-150M	0.15	20	1.7	2.3	275	318

#### Note:

1. Test frequency: L: 100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current (Isat) will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)





# Molding Type High Current Power Inductors

## HMI 0520 Series



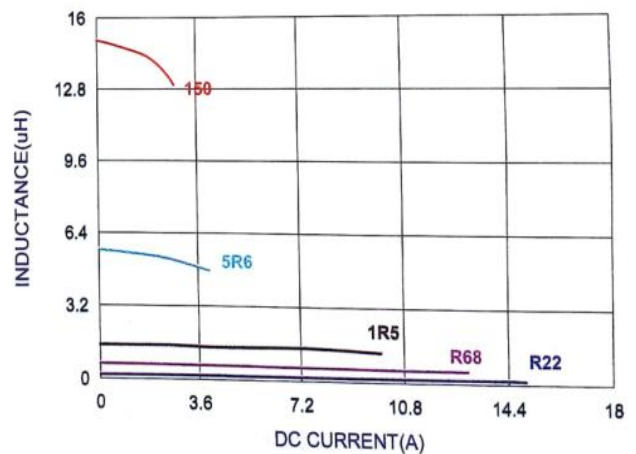
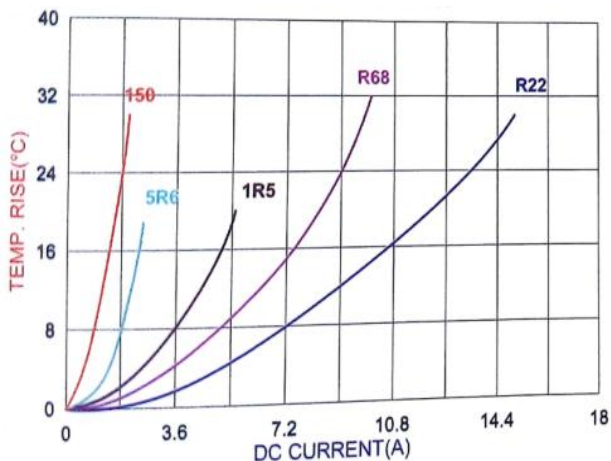
### Specifications HMI0520

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0520-R22N	0.22	30	15.0	25.0	4.0	5.5
HMI0520-R47M	0.47	20	11.5	18.0	7.3	8.6
HMI0520-R68M	0.68	20	10.0	12.8	11.0	12.4
HMI0520-1R0M	1.0	20	7.0	13.7	17.5	20.0
HMI0520-2R2M	2.2	20	4.2	9.0	42	50.0
HMI0520-3R3M	3.3	20	3.3	7.3	66	76
HMI0520-4R7M	4.7	20	2.8	5.0	103	116
HMI0520-5R6M	5.6	20	2.5	4.0	112	122
HMI0520-6R8M	6.8	20	2.4	3.8	130	150
HMI0520-100M	10.0	20	2.3	3.4	180	199
HMI0520-150M	0.15	20	1.9	2.8	240	270

#### Note:

1. Test frequency:L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current(irms)will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current(Isat)will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 0530 Series



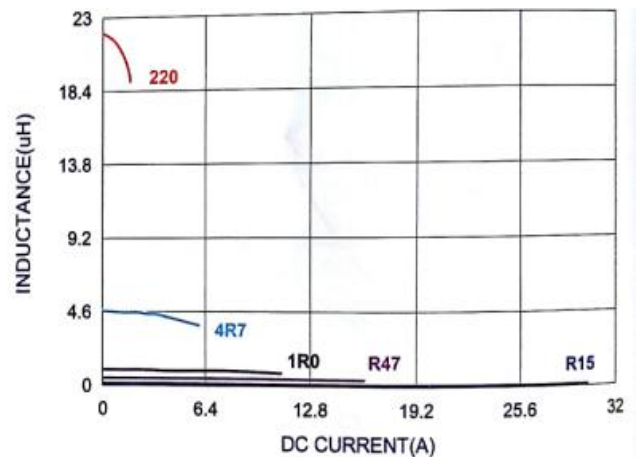
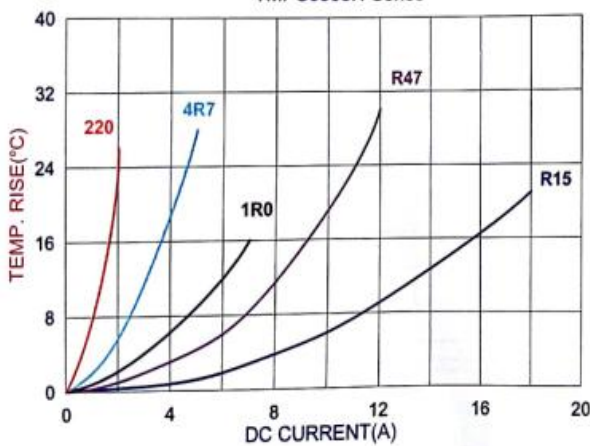
### Specifications HMI0530

Part Number	Inductance (uH)	Tolerance (%)	I <sub>rms</sub> (A) typ	I <sub>sat</sub> (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0530-R15N	0.15	30	18.0	30.0	2.3	2.7
HMI0530-R47M	0.47	20	12.0	16.0	6.4	7.4
HMI0530-R68M	0.68	20	8.5	14.0	10	12
HMI0530-1R0M	1.0	20	7.0	11.0	13	14
HMI0530-2R2M	2.2	20	5.5	9.0	25	35
HMI0530-3R3M	3.3	20	5.0	8.0	32	38
HMI0530-4R7M	4.7	20	4.6	6.0	50	53
HMI0530-5R6M	5.6	20	4.3	4.5	55	63
HMI0530-6R8M	6.8	20	4.0	4.3	68	76
HMI0530-100M	10.0	20	2.8	3.5	110	128
HMI0530-220M	0.15	20	1.9	1.7	220	250

#### Note:

1. Test frequency: L: 100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (I<sub>rms</sub>) will cause the coil temperature rise approximately Δt of 40°C (keep 1min)
4. Saturation current (I<sub>sat</sub>) will cause L<sub>0</sub> to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)





# Molding Type High Current Power Inductors

## HMI 0612 Series



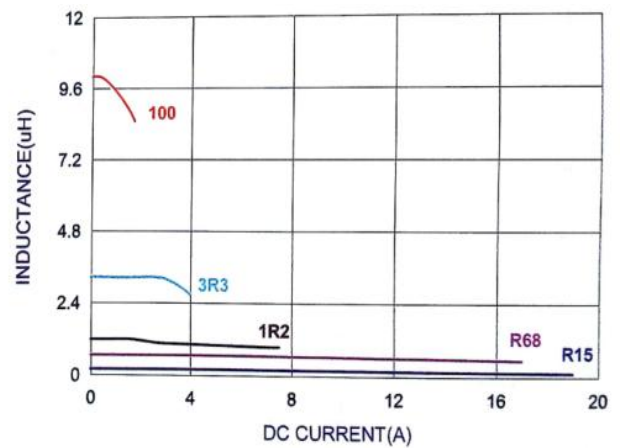
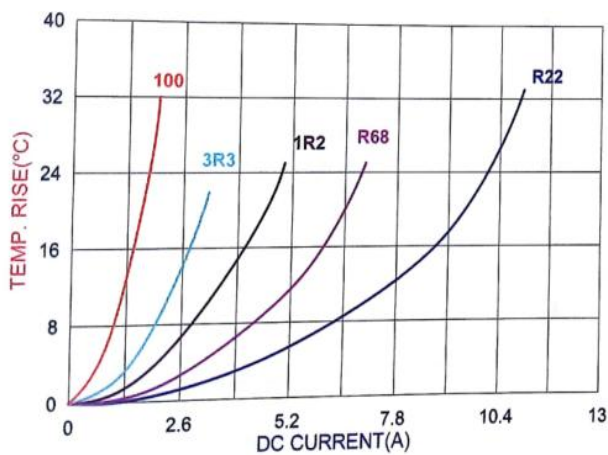
### Specifications HMI0612

Part Number	Inductance (uH)	Tolerance (%)	I <sub>rms</sub> (A) typ	I <sub>sat</sub> (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0612-R22N	0.22	30	11.0	19.0	6.5	7.5
HMI0612-R47M	0.47	20	8.5	12.0	13.0	17
HMI0612-R68M	0.68	20	7.0	9.0	17	19
HMI0612-1R0M	1.0	20	6.0	7.0	27	30
HMI0612-2R2M	2.2	20	4.0	5.0	53	61
HMI0612-3R3M	3.3	20	3.2	4.0	90	103
HMI0612-4R7M	4.7	20	2.5	3.8	130	150
HMI0612-6R8M	6.8	20	2.1	3.0	172	198
HMI0612-100M	10.0	20	1.8	2.5	280	290

#### Note:

1. Test frequency:L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current(I<sub>rms</sub>)will cause the coil temperature rise approximately Δt of 40°C(keep 1min)
4. Saturation current(I<sub>sat</sub>)will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 0615 Series



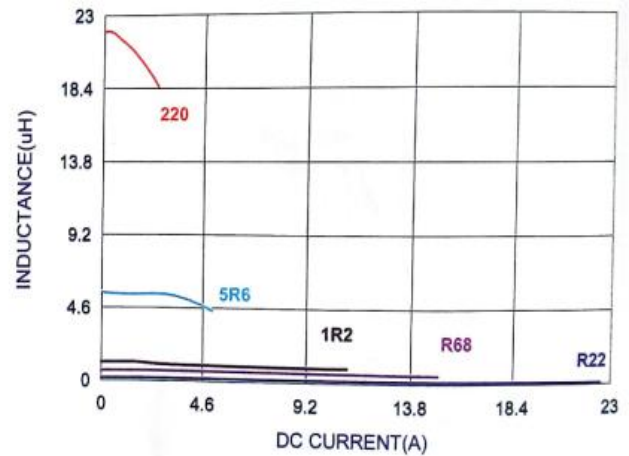
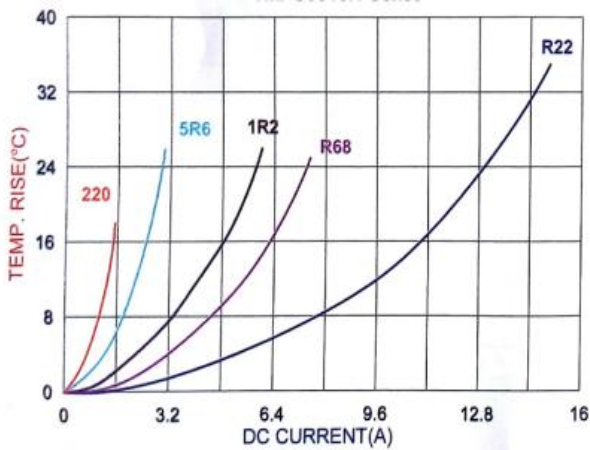
### Specifications HMI0615

Part Number	Inductance (uH)	Tolerance (%)	I <sub>rms</sub> (A) typ	I <sub>sat</sub> (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0615-R22N	0.22	30	14.0	22.0	4.3	5.2
HMI0615-R47M	0.47	20	9.5	16.0	9.0	10.3
HMI0615-R68M	0.68	20	7.5	15.0	13.8	15.2
HMI0615-1R0M	1.0	20	6.5	12.0	23.0	25.8
HMI0615-2R2M	2.2	20	4.5	6.5	48.0	55.0
HMI0615-3R3M	3.3	20	4.2	6.0	62.0	74.0
HMI0615-4R7M	4.7	20	3.8	5.0	96	111
HMI0615-5R6M	5.6	20	3.0	4.5	115	138
HMI0615-6R8M	6.8	20	2.6	3.5	128	148
HMI0615-100M	10.0	20	2.3	2.8	180	216
HMI0615-220M	22.0	20	1.5	2.5	420	504

#### Note:

1. Test frequency: L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (I<sub>rms</sub>) will cause the coil temperature rise approximately Δt of 40°C (keep 1min)
4. Saturation current (I<sub>sat</sub>) will cause L<sub>0</sub> to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 0618 Series



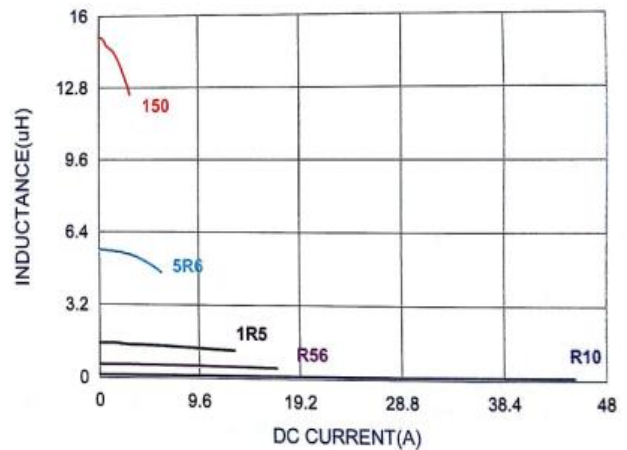
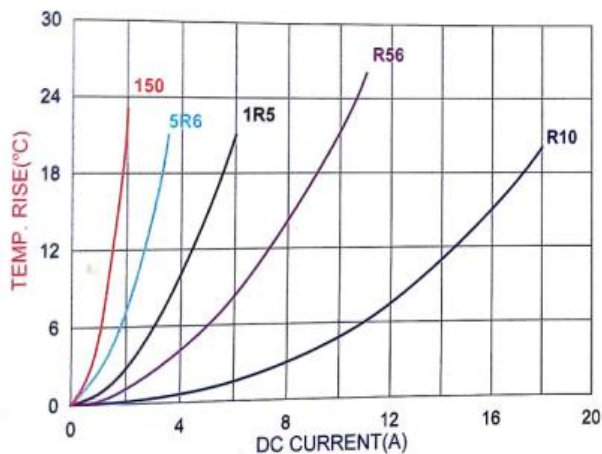
### Specifications HMI0618

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0618-R22N	0.22	30	16.0	26.0	2.5	3.0
HMI0618-R47M	0.47	20	12.0	18.0	6.4	7.4
HMI0618-R68M	0.68	20	10.0	17.0	9.5	11.0
HMI0618-1R0M	1.0	20	7.0	14.0	14.5	17.0
HMI0618-2R2M	2.2	20	6.0	11.0	31.0	35.0
HMI0618-3R3M	3.3	20	5.0	9.0	40.0	46.0
HMI0618-4R7M	4.7	20	4.0	7.0	68	76
HMI0618-5R6M	5.6	20	3.5	6.0	78	86
HMI0618-6R8M	6.8	20	3.0	5.5	93	104
HMI0618-100M	10.0	20	2.3	3.5	143	160

#### Note:

1. Test frequency: L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current (Isat) will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 0620 Series



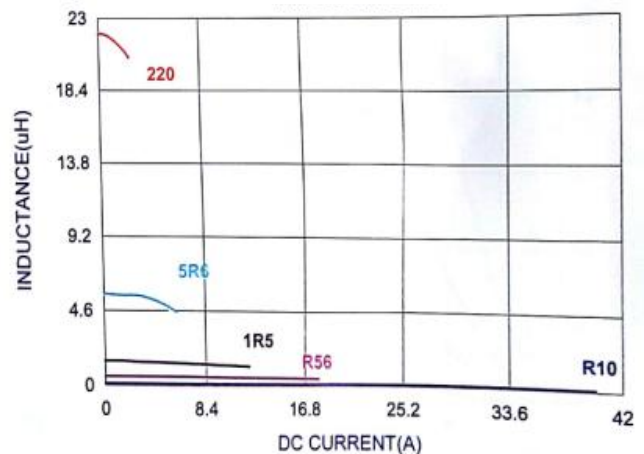
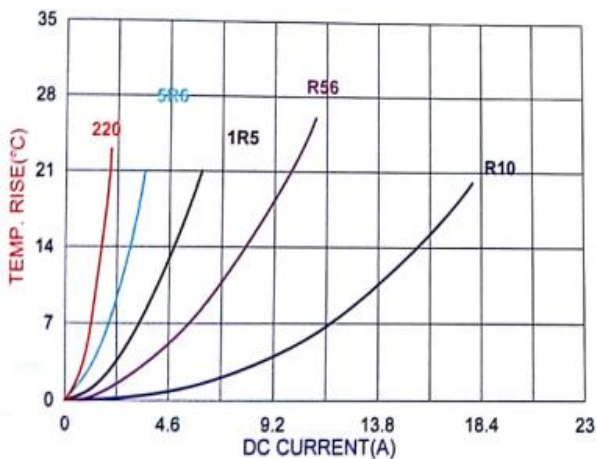
### Specifications HMI0620

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0620-R10N	0.10	30	21.0	40.0	2.0	2.4
HMI0620-R47M	0.47	20	11.7	20.0	7.1	8.3
HMI0620-R68M	0.68	20	10.5	16.0	8.3	10.0
HMI0620-1R0M	1.0	20	8.0	14.0	16.5	18.0
HMI0620-2R2M	2.2	20	6.0	10.0	32.0	37.0
HMI0620-3R3M	3.3	20	5.0	8.0	43.0	48.0
HMI0620-4R7M	4.7	20	4.5	7.0	53	60
HMI0620-5R6M	5.6	20	4.0	6.0	59	68
HMI0620-6R8M	6.8	20	4.0	5.5	63	73
HMI0620-100M	10.0	20	2.8	4.0	134	154
HMI0620-220M	22.0	20	1.5	2.5	236	280

#### Note:

1. Test frequency: L: 100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current (Isat) will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 0624 Series



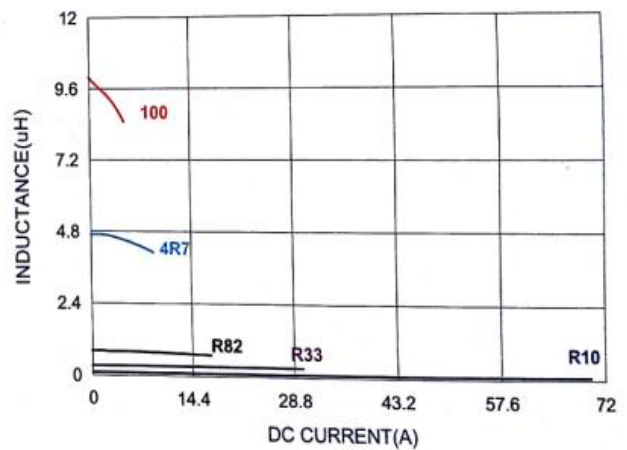
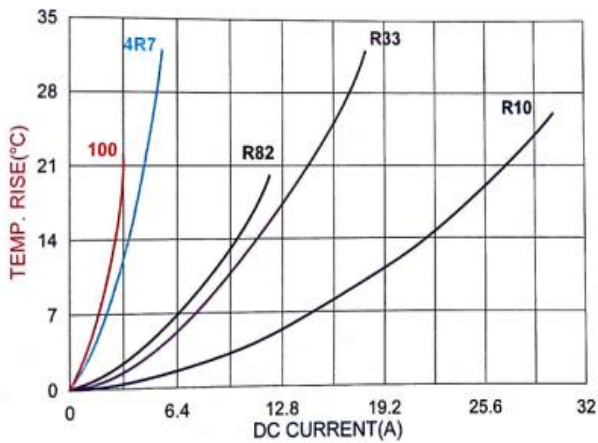
### Specifications HMI0624

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0624-R22N	0.22	30	21.0	34.0	2.0	3.2
HMI0624-R47M	0.47	20	15.0	26.0	4.8	5.1
HMI0624-R68M	0.68	20	13.0	21.0	6.4	7.2
HMI0624-1R0M	1.0	20	11.0	16.0	10.5	13.5
HMI0624-2R2M	2.2	20	7.0	14.0	23.0	28.0
HMI0624-3R3M	3.3	20	6.0	10.0	34.0	39.0
HMI0624-4R7M	4.7	20	5.5	9.0	41	50
HMI0624-5R6M	5.6	20	5.0	8.0	56	62
HMI0624-6R8M	6.8	20	4.0	7.0	65	72
HMI0624-100M	10.0	20	3.2	5.0	92	101

#### Note:

1. Test frequency: L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current (Isat) will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 0630 Series



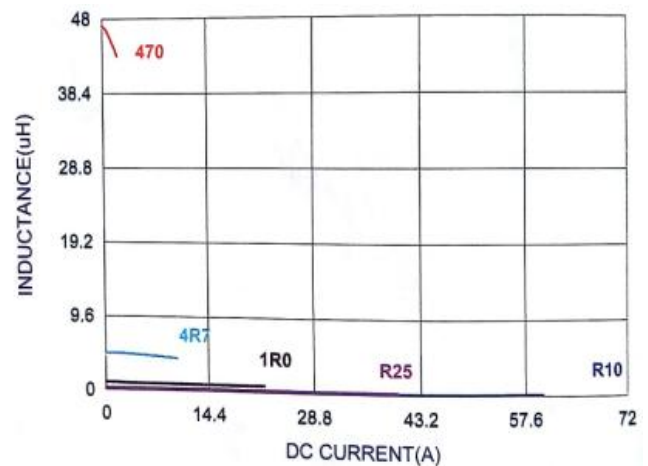
### Specifications HMI0630

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0630-R10N	0.10	30	32.5	60.0	1.2	1.7
HMI0630-R22N	0.22	30	23.0	40.0	2.1	2.8
HMI0630-R47M	0.47	20	17.5	26.0	4.0	4.2
HMI0630-R68M	0.68	20	15.5	25.0	4.8	5.5
HMI0630-1R0M	1.0	20	11.0	22.0	8.3	10.0
HMI0630-2R2M	2.2	20	8.0	14.0	18.0	20.0
HMI0630-3R3M	3.3	20	6.0	13.5	28.0	30.0
HMI0630-4R7M	4.7	20	5.5	10.0	37	40
HMI0630-5R6M	5.6	20	5.0	9.0	43	48
HMI0630-6R8M	6.8	20	4.5	8.0	54	60
HMI0630-100M	10.0	20	3.5	7.0	75	85

#### Note:

1. Test frequency: L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current (Isat) will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)





# Molding Type High Current Power Inductors

## HMI 0640 Series



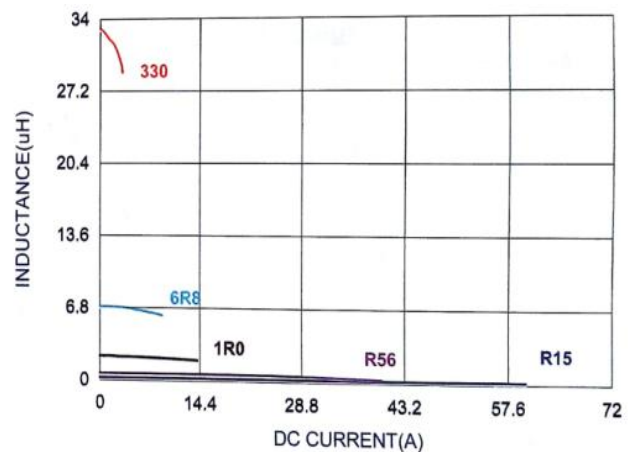
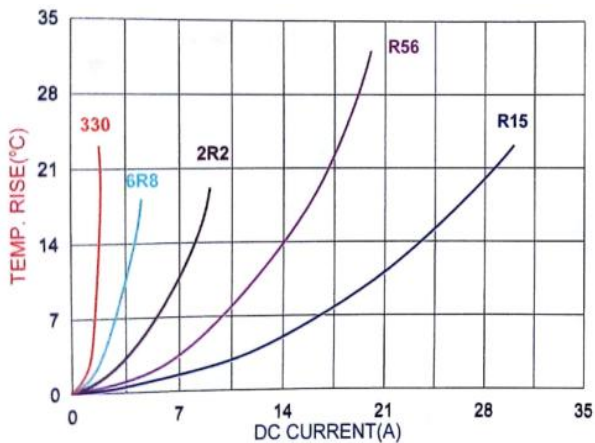
### Specifications HMI0640

Part Number	Inductance (uH)	Tolerance (%)	I <sub>rms</sub> (A) typ	I <sub>sat</sub> (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0640-R15N	0.15	30	30.0	55.0	0.9	1.2
HMI0640-R47M	0.47	20	23.0	28.0	3.0	3.4
HMI0640-R68M	0.68	20	16.0	24.0	4.1	4.5
HMI0640-1R0M	1.0	20	14.0	22.0	6.8	8.0
HMI0640-2R2M	2.2	20	9.0	14.0	11.5	14.0
HMI0640-3R3M	3.3	20	8.0	12.0	24.0	27.0
HMI0640-4R7M	4.7	20	6.0	11.0	28	32.5
HMI0640-5R6M	5.6	20	5.0	9.0	33	38.0
HMI0640-6R8M	6.8	20	4.5	8.5	44	50.0
HMI0640-100M	10.0	20	4.0	7.0	64	72
HMI0640-150M	15.0	20	3.0	3.5	80	90

#### Note:

1. Test frequency:L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current(irms)will cause the coil temperature rise approximately Δt of 40°C(keep 1min)
4. Saturation current(Isat)will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 0650 Series



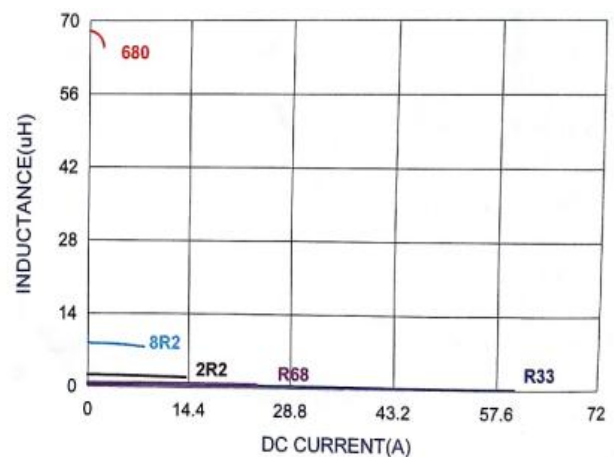
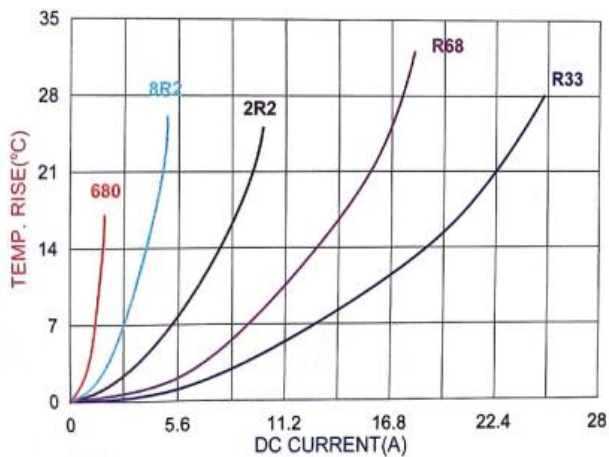
### Specifications HMI0650

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI0650-R33N	0.33	30	25.0	32.0	2.5	3.0
HMI0650-R47M	0.47	20	22.0	30.0	3.5	3.9
HMI0650-R68M	0.68	20	18.0	24.0	4.0	4.5
HMI0650-1R0M	1.0	20	15.0	20.0	6.1	6.5
HMI0650-2R2M	2.2	20	10.0	14.0	11.2	12.0
HMI0650-3R3M	3.3	20	8.0	12.0	19.0	20.9
HMI0650-4R7M	4.7	20	6.5	10.0	28.0	30.8
HMI0650-5R6M	5.6	20	6.0	9.0	43.5	49.0
HMI0650-6R8M	6.8	20	5.5	8.5	46.0	51.5
HMI0650-100M	10.0	20	4.0	7.5	60.0	69.0
HMI0650-220M	22.0	20	2.5	5.5	140.0	170.0
HMI0650-330M	33.0	20	2.0	4.0	160.0	210.0

#### Note:

1. Test frequency: L: 100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current (Isat) will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 1004 Series



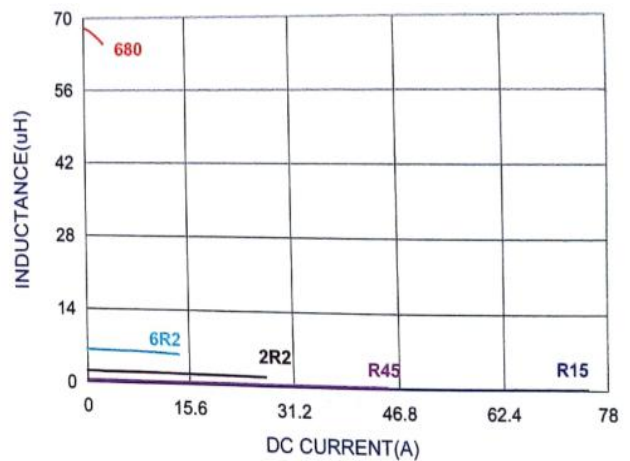
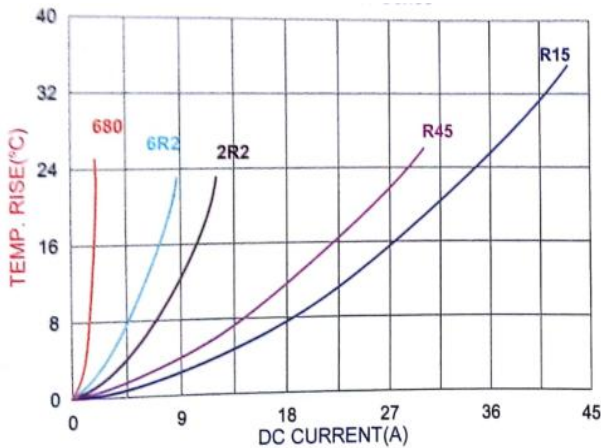
### Specifications HMI1004

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI1004-R15N	0.15	30	43.0	75.0	0.5	0.6
HMI1004-R47M	0.47	20	28.0	43.0	1.3	1.5
HMI1004-R68M	0.68	20	22.0	39.0	2.4	2.7
HMI1004-1R0M	1.0	20	18.0	36.0	3.0	3.3
HMI1004-2R2M	2.2	20	12.0	27.0	6.5	7.0
HMI1004-3R3M	3.3	20	11.0	20.0	10.8	11.8
HMI1004-4R7M	4.7	20	10.0	17.0	15.0	15.5
HMI1004-5R6M	5.6	20	9.0	14.0	17.0	19.3
HMI1004-6R8M	6.8	20	8.5	13.5	17.5	23.3
HMI1004-8R2M	8.2	20	8.0	12.5	20.0	22.5
HMI1004-100M	10.0	20	7.5	12.0	27.0	30.0
HMI1004-220M	22.0	20	5.0	7.0	64.0	74.0
HMI1004-330M	33.0	20	3.0	5.0	136.0	177.0

#### Note:

1. Test frequency:L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current(irms)will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current(Isat)will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 1250 Series



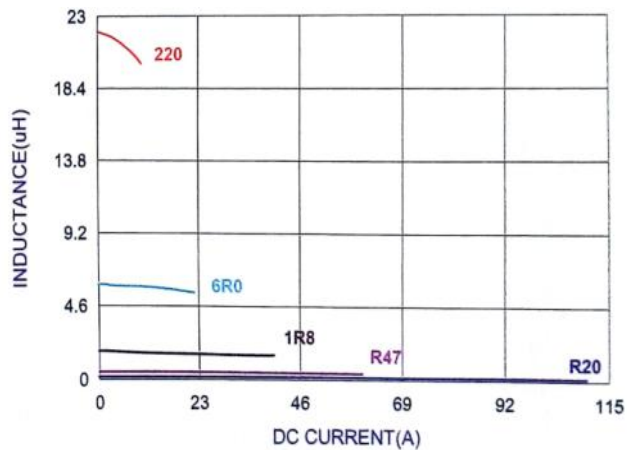
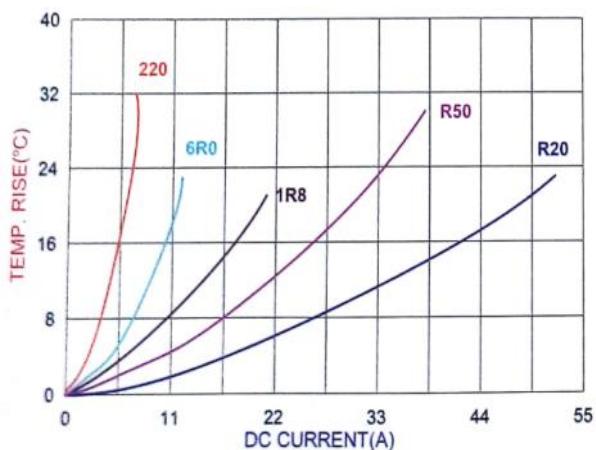
### Specifications HMI1250

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI1250-R20N	0.20	30	52.0	11.0	0.45	0.55
HMI1250-R47M	0.47	20	38.0	65.0	0.86	1.10
HMI1250-R68M	0.68	20	34.0	54.0	1.40	1.70
HMI1250-1R0M	1.0	20	29.0	50.0	1.85	2.50
HMI1250-2R2M	2.2	20	20.0	32.0	4.2	5.50
HMI1250-3R3M	3.3	20	15.0	32.0	6.8	9.20
HMI1250-4R7M	4.7	20	12.0	27.0	11.4	15.00
HMI1250-6R8M	6.8	20	11.0	21.0	14.5	18.50
HMI1250-8R2M	8.2	20	9.5	18.0	16.8	22.50
HMI1250-100M	10.0	20	9.0	16.0	21.4	25.50
HMI1250-220M	22.0	20	6.5	10.0	50.0	58.00

#### Note:

1. Test frequency: L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current (Isat) will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 1260 Series



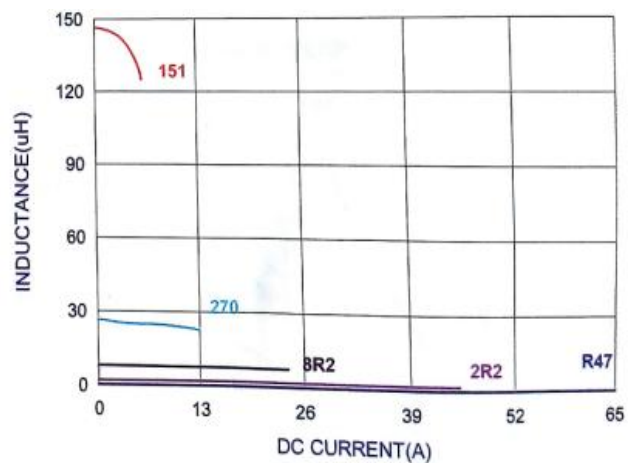
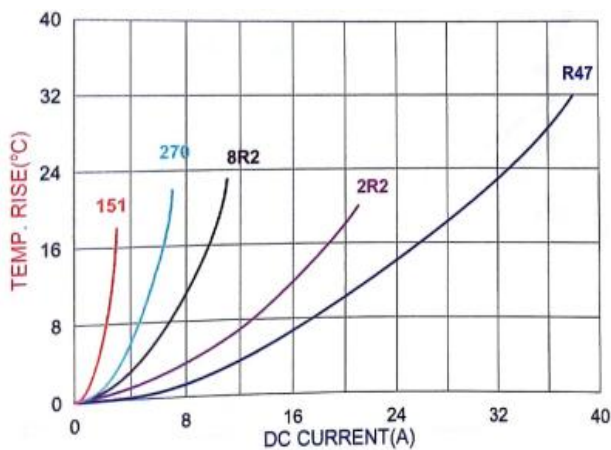
### Specifications HMI1260

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI1260-1R0M	1.0	20	29.0	45.0	1.80	2.40
HMI1260-2R2M	2.2	20	21.0	34.0	4.0	4.70
HMI1260-3R3M	3.3	20	17.0	28.0	5.8	7.10
HMI1260-4R7M	4.7	20	16.0	25.0	9.5	11.50
HMI1260-5R6M	4.7	20	15.5	22.0	10.8	12.60
HMI1260-6R8M	6.8	20	15.0	19.0	12.0	13.80
HMI1260-100M	10.0	20	11.0	15.5	18.0	20.70
HMI1260-220M	22.0	20	8.0	11.0	34.0	39.50
HMI1260-330M	33.0	20	6.0	8.0	65.0	75.00
HMI1260-470M	47.0	20	5.5	7.0	80.0	90.00
HMI1260-680M	68.0	20	3.0	4.0	113.0	148.00

#### Note:

1. Test frequency: L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current (Isat) will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.

#### DC Bias Characteristics (Typical)



# Molding Type High Current Power Inductors

## HMI 1770 Series



### Specifications HMI1770

Part Number	Inductance (uH)	Tolerance (%)	Irms (A) typ	Isat (A) typ	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
HMI1770-R22M	0.22	20	80.0	129.0	0.63	0.70
HMI1770-R33M	0.33	20	75.5	55.0	0.61	0.67
HMI1770-R47M	0.47	20	64.5	62.0	0.78	0.87
HMI1770-R56M	0.56	20	61.0	66.0	0.83	0.91
HMI1770-R82M	0.82	20	56.5	45.0	0.98	1.08
HMI1770-1R0M	1.0	20	55.5	32.0	1.21	1.38
HMI1770-1R5M	1.5	20	48.0	31.0	1.54	1.62
HMI1770-1R8M	1.8	20	38.0	65.0	1.96	2.07
HMI1770-2R2M	2.2	20	43.5	28.0	1.85	1.98
HMI1770-3R3M	3.3	20	35.0	27.0	2.79	2.93
HMI1770-4R7M	4.7	20	30.0	21.0	3.98	4.18
HMI1770-5R6M	5.6	20	28.0	21.0	4.23	4.44
HMI1770-6R8M	6.8	20	22.5	18.5	5.86	6.15
HMI1770-8R2M	8.2	20	21.0	18.0	7.71	8.10
HMI1770-100M	10	20	19.0	17.0	8.89	9.33
HMI1770-150M	15	20	14.0	12.0	13.7	14.40
HMI1770-220M	22	20	12.0	9.5	20.0	21.00
HMI1770-330M	33	20	10.7	9.0	35.1	37.00
HMI1770-470M	47	20	8.7	8.6	40.7	42.70
HMI1770-560M	56	20	7.2	4.2	55.0	57.80
HMI1770-680M	68	20	6.1	4.5	72.1	75.70
HMI1770-820M	82	20	5.5	4.5	87.3	91.70
HMI1770-101M	100	20	5.0	4.0	105.0	110.00

#### Note:

1. Test frequency: L:100KHz/1.0V.
2. All test data referenced to 25°C ambient.
3. Heat rated current (irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C (keep 1min)
4. Saturation current (Isat) will cause L0 to drop 30% typical. (keep quickly).
5. Special inquiries besides the above common used types can be met on your requirement.