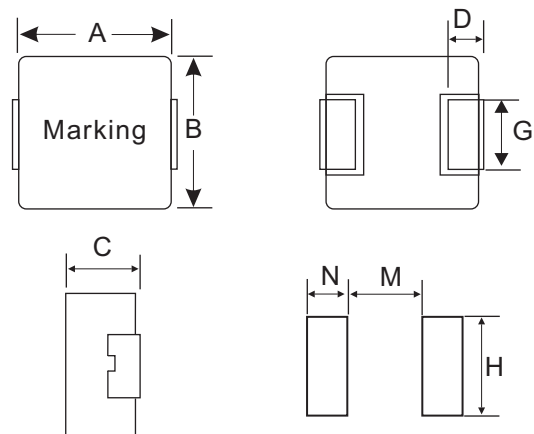


SMD High Current Inductors



Recommended Land Pattern

Dimensions and Footprint (Unit:mm)

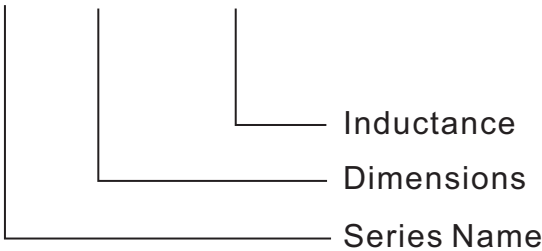
Type	A	B	D	C	G	N(Ref.)	M(Ref.)	H(Ref.)
DHI0402	4.5±0.4	4.1±0.3	0.76±0.3	1.8±0.2	2.0±0.3	1.5	2.2	2.5
DHI0502	5.5±0.4	5.2±0.3	1.2±0.3	1.8±0.2	2.3±0.3	2	3	2.5
DHI0503	5.5±0.4	5.2±0.3	1.2±0.3	2.8±0.2	2.3±0.3	2	3	2.5
DHI0601	6.9±0.4	6.6±0.2	1.5±0.5	1.0±0.2	3.0±0.3	2.4	3.7	3.5
DHI0602	6.9±0.4	6.6±0.2	1.5±0.5	1.8±0.2	3.0±0.3	2.4	3.7	3.5
DHI0624	6.9±0.4	6.6±0.3	1.5±0.5	2.2±0.2	3.0±0.3	2.4	3.7	3.5
DHI0603	6.9±0.4	6.6±0.3	1.5±0.5	2.8±0.2	3.0±0.3	2.4	3.7	3.5
DHI0604	6.9±0.4	6.6±0.3	1.5±0.5	3.8±0.2	3.0±0.3	2.4	3.7	3.5
DHI0605	6.9±0.4	6.6±0.3	1.5±0.5	4.8±0.2	3.0±0.3	2.4	3.7	3.5
DHI1004	10.9±0.5	10.3±0.3	2±0.5	3.8±0.2	3.0±0.3	3.5	6	4
DHI1005	10.9±0.5	10.3±0.3	2±0.5	4.8±0.2	3.0±0.3	3.5	6	4
DHI1205	13.2±0.5	12.8±0.5	2.5±0.5	4.8±0.2	3.8±0.2	3.5	8	4.5
DHI1206	13.2±0.5	12.8±0.5	2.5±0.5	5.8±0.2	3.8±0.2	3.5	8	4.5
DHI1207	13.2±0.5	12.8±0.5	2.5±0.5	6.8±0.2	3.8±0.2	3.5	8	4.5
DHI1707	17.5±0.5	17±0.5	2.5±0.5	6.8±0.2	12±0.2	3.5	11	13

Description

- Shielded construction.
- High current rating up to DC 65 amp.
- High Frequency Rang up to 5MHz.
- Very low DC resistance.
- ROHS compliant.
- Applications: PAD/Notebook/Desktop/Server Applications.
DC/DC converter.

Part Number Code

DHI0420-R10M



Electrical Specifications-DHI0402

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI0402-R10M	0.1	3.5	4.0	12.0	22.0
DHI0402-R22M	0.22	6.0	6.6	9.0	12.5
DHI0402-R47M	0.47	21.0	25.0	7.0	10.0
DHI0402-R56M	0.56	23.0	27.0	6.5	9.5
DHI0402-R68M	0.68	27.0	29.0	5.2	8.0
DHI0402-1R0M	1.0	28.0	30.0	4.5	7.0
DHI0402-1R2M	1.2	28.0	30.0	4.5	7.0
DHI0402-1R5M	1.5	38.0	46.0	4.0	6.0
DHI0402-2R2M	2.2	52.0	58.0	3.0	5.0
DHI0402-3R3M	3.3	74.0	87.0	2.5	4.0
DHI0402-4R7M	4.7	104.0	115.0	2.2	3.0

Electrical Specifications-DHI0502

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI0502-R10M	0.1	2.7	2.9	21.0	25.0
DHI0502-R22M	0.22	4.1	4.5	13.0	17.0
DHI0502-R33M	0.33	5.5	5.9	7.5	13.0
DHI0502-R47M	0.47	7.1	7.7	8.0	12.5
DHI0502-1R0M	1	16.8	18.0	7.0	7.5
DHI0502-2R2M	2.2	34.9	37.7	5.0	5.5
DHI0502-3R3M	3.3	58.5	68.0	4.1	4.7
DHI0502-4R7M	4.7	75.3	81.3	3.0	3.2
DHI0502-5R6M	5.6	85.2	92.0	2.2	3.0
DHI0502-6R8M	6.8	114.0	121.0	2.1	2.8
DHI0502-100M	10	200.0	220.0	2.0	2.2

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -30\%$, $\Delta t = 20^\circ\text{C}$.
- Inductance Tested at 100KHz, 1Vrms

Electrical Specifications-DHI0503

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI0503-R68M	0.68	11	12	8.5	14.0
DHI0503-1R0M	1	13	14	7.0	11.0
DHI0503-1R2M	1.2	15	16	6.5	11.0
DHI0503-1R5M	1.5	20	25	6.0	10.0
DHI0503-2R2M	2.2	29	35	5.5	9.0
DHI0503-3R3M	3.3	32	38	5.0	7.0
DHI0503-4R7M	4.7	50	60	3.0	5.0
DHI0503-6R8M	6.8	91	108	2.5	4.0
DHI0503-100M	10	115	150	1.5	3.0

Electrical Specifications-DHI0601

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI0601-R56M	0.56	13.5	15.5	7.0	11.0
DHI0601-R68M	0.68	30.0	33.5	6.5	9.0
DHI0601-R82M	0.82	32.0	35.0	6.0	8.0
DHI0601-1R0M	1	32.0	35.0	6.0	7.0
DHI0601-2R2M	2.2	64.0	67.0	3.5	5.0
DHI0601-3R3M	3.3	80.0	92.0	3.0	4.0
DHI0601-4R7M	4.7	120.0	130.0	2.5	3.5
DHI0601-100M	10	250.0	290.0	2.0	2.2

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -30\%$, $\Delta t = 20^\circ\text{C}$.
- Inductance Tested at 100KHz, 1Vrms

Electrical Specifications-DHI0602

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI0602-R10M	0.1	2.0	2.5	16.0	30.0
DHI0602-R33M	0.33	5.2	6.8	10.0	20.0
DHI0602-R47M	0.47	7.3	8.4	9.0	15.0
DHI0602-R68M	0.68	10.8	12.7	7.5	14.0
DHI0602-1R0M	1	23.0	27.0	6.5	10.0
DHI0602-2R2M	2.2	44.0	48.0	5.0	8.0
DHI0602-3R3M	3.3	76.0	80.0	3.5	7.5
DHI0602-4R7M	4.7	95.0	103.0	2.5	4.0
DHI0602-6R8M	6.8	120.0	130.0	1.8	3.0

Electrical Specifications-DHI0624

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI0624-R47M	0.47	5.3	6.5	14.0	19.0
DHI0624-R68M	0.68	7.9	9.4	11.5	18.0
DHI0624-R82M	0.82	9.6	11.8	10.5	16.0
DHI0624-1R0M	1	12.5	14.2	10.0	15.0
DHI0624-1R5M	1.5	17.6	21.2	8.0	13.0
DHI0624-2R2M	2.2	28.0	34.0	7.0	12.0
DHI0624-3R3M	3.3	45.0	51.6	5.5	9.0
DHI0624-4R7M	4.7	57.0	63.0	5.0	7.5
DHI0624-6R8M	6.8	83.0	95.0	4.0	6.0
DHI0624-8R2M	8.2	94.0	106.0	3.5	5.0
DHI0624-100M	10	108.0	129.0	3.1	4.0

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -30\%$, $\Delta t = 20^\circ\text{C}$.
- Inductance Tested at 100KHz, 1Vrms

Electrical Specifications-DHI0603

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI0603-R10M	0.1	1.8	2.2	28.0	40.0
DHI0603-R20M	0.2	2.4	3.0	24.0	34.0
DHI0603-R33M	0.33	3.0	3.5	21.0	25.0
DHI0603-R47M	0.47	3.4	4.1	18.0	20.0
DHI0603-R68M	0.68	4.8	5.3	16.0	17.0
DHI0603-R82M	0.8	5.4	6.0	14.0	16.0
DHI0603-1R0M	1	8.4	9.2	12.0	15.0
DHI0603-1R5M	1.5	10.6	12.1	10.0	14.0
DHI0603-2R2M	2.2	13.5	15.0	8.0	10.0
DHI0603-3R3M	3.3	18.0	22.0	6.5	9.5
DHI0603-4R7M	4.7	28.0	38.0	5.5	6.5
DHI0603-6R8M	6.8	43.9	50.0	4.5	6.0
DHI0603-8R2M	8.2	54.0	60.0	4.0	6.0
DHI0603-100M	10	62.0	68.0	3.5	5.5
DHI0603-150M	15	90.0	95.0	3.0	4.0
DHI0603-220M	22	125	135	2.5	3.0

Electrical Specifications-DHI0604

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI0604-R47M	0.47	3.2	3.6	20.0	22.0
DHI0604-R68M	0.68	4.3	5.0	18.0	20.0
DHI0604-R82M	0.82	6.4	7.0	16.0	18.0
DHI0604-1R0M	1	7.2	8.4	13.0	17.0
DHI0604-1R5M	1.5	8.3	9.7	11.0	15.0
DHI0604-2R2M	2.2	13.0	17.0	9.0	12.0
DHI0604-3R3M	3.3	19.1	25.0	8.0	11.0
DHI0604-4R7M	4.7	27.5	35.0	6.5	9.0
DHI0604-6R8M	6.8	36.0	45.0	5.5	8.0
DHI0604-8R2M	8.2	44.0	50.0	5.0	7.0
DHI0604-100M	10	50.0	58.0	4.0	6.0

Electrical Specifications-DHI0605

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI0605-R13M	0.13	1.0	1.4	42.0	48.0
DHI0605-R22M	0.22	1.6	2.2	30.0	35.0
DHI0605-R36M	0.36	2.7	3.1	21.0	25.0
DHI0605-R47M	0.47	3.1	3.5	20.0	24.0
DHI0605-R56M	0.56	3.4	3.6	18.0	22.0
DHI0605-R68M	0.68	3.9	4.2	16.0	18.0
DHI0605-R82M	0.82	4.6	4.9	16.5	19.5
DHI0605-1R0M	1	5.6	6.5	14.0	18.0
DHI0605-1R5M	1.5	6.0	7.5	12.0	15.5
DHI0605-2R2M	2.2	11.2	12.5	10.0	14.0
DHI0605-3R3M	3.3	19.9	20.9	8.5	12.0
DHI0605-4R7M	4.7	23.0	25.0	7.0	10.0
DHI0605-6R8M	6.8	36.5	41.0	6.0	9.0
DHI0605-8R2M	8.2	40.0	43.0	5.5	7.5
DHI0605-100M	10	48.0	55.0	4.5	6.5
DHI0605-330M	33	150.0	180.0	3.0	4.0
DHI0605-470M	47	200.0	230.0	2.2	3.5
DHI0605-560M	56	245.0	280.0	1.8	3.0

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -30\%$, $\Delta t = 20^\circ\text{C}$.
- Inductance Tested at 100KHz, 1Vrms

Electrical Specifications-DHI1004

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI1004-R33M	0.33	1.1	1.5	30.0	50.0
DHI1004-R36M	0.36	1.1	1.5	30.0	50.0
DHI1004-R47M	0.47	1.1	1.8	26.0	40.0
DHI1004-R56M	0.56	1.5	2.2	25.0	40.0
DHI1004-R68M	0.68	2.0	3.0	23.0	36.0
DHI1004-1R0M	1.0	3.2	4.1	18.0	33.0
DHI1004-1R5M	1.5	5.0	6.0	16.0	32.0
DHI1004-2R2M	2.2	7.0	9.0	12.0	25.0
DHI1004-3R3M	3.3	10.8	13.5	10.0	16.0
DHI1004-4R7M	4.7	15.0	18.0	8.0	14.0
DHI1004-5R6M	5.6	18.2	25.0	8.0	14.0
DHI1004-6R8M	6.8	23.5	28.0	6.5	9.0
DHI1004-7R2M	7.2	32.0	36.0	6.0	9.0
DHI1004-8R2M	8.2	31.0	36.5	4.9	8.0
DHI1004-100M	10	60.0	68.0	4.5	7.5
DHI1004-150M	15	126	140	4.0	5.0
DHI1004-220M	22	135	150	3.5	5.0
DHI1004-330M	33	137	155	3.0	5.0
DHI1004-470M	47	141	155	3.0	5.0

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -30\%$, $\Delta t = 20^\circ\text{C}$.
- Inductance Tested at 100KHz, 1Vrms

Electrical Specifications-DHI1005

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI1005-R82M	0.82	2.5	3.2	22.0	39.0
DHI1005-1R0M	1	2.8	3.5	20.0	32.0
DHI1005-1R2M	1.2	2.8	3.5	19.5	29.0
DHI1005-1R5M	1.5	3.9	4.8	15.0	27.5
DHI1005-2R2M	2.2	6.5	8.2	12.0	21.5
DHI1005-3R3M	3.3	9.2	10.8	10.0	18.6
DHI1005-4R7M	4.7	12.4	15.0	9.5	16.5
DHI1005-5R6M	5.6	18.9	20.0	8.5	15.0
DHI1005-6R8M	6.8	20.6	24.0	8.0	14.0
DHI1005-8R2M	8.2	27.4	30.0	7.0	12.5
DHI1005-100M	10	30.2	35.0	6.8	11.5
DHI1005-150M	15	48.0	52.8	5.0	9.0
DHI1005-220M	22	50.0	58.0	4.5	8.0
DHI1005-330M	33	89.0	105.0	3.5	6.5
DHI1005-470M	47	110.0	130.0	3.0	5.0
DHI1005-680M	68	171	190	2.0	3.0

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -30\%$, $\Delta t = 20^\circ\text{C}$.
- Inductance Tested at 100KHz, 1Vrms

Electrical Specifications-DHI1205

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI1205-R33M	0.33	0.85	1.10	42.0	80.0
DHI1205-R47M	0.47	1.1	1.5	38.0	65.0
DHI1205-R56M	0.56	1.4	1.7	36.0	55.0
DHI1205-R68M	0.68	1.5	1.7	34.0	54.0
DHI1205-R82M	0.82	2.0	2.5	31.0	53.0
DHI1205-1R0M	1.00	2.4	3.5	29.0	50.0
DHI1205-1R2M	1.20	2.8	4.0	25.0	49.0
DHI1205-1R5M	1.50	3.8	5.0	21.0	48.0
DHI1205-1R8M	1.80	4.2	6.0	19.0	40.0
DHI1205-2R2M	2.20	4.8	7.2	20.0	32.0
DHI1205-3R3M	3.30	6.2	9.2	15.0	30.0
DHI1205-4R7M	4.70	13	15	12.0	27.0
DHI1205-5R6M	5.60	14	17	12.0	22.0
DHI1205-6R8M	6.80	15	19	11.0	21.0
DHI1205-8R2M	8.20	19	23	10.0	18.0
DHI1205-100M	10.00	21	26	9.0	16.0
DHI1205-150M	15.00	54	60	6.0	12.0
DHI1205-220M	22.00	63	70	4.0	8.0
DHI1205-330M	33.00	70	80	3.0	6.0
DHI1205-470M	47.00	78	90	2.5	5.5
DHI1205-560M	56.00	143	191	2.0	4.0
DHI1205-680M	68.00	154	206	1.5	3.5

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -30\%$, $\Delta t = 20^\circ\text{C}$.
- Inductance Tested at 100KHz, 1Vrms

Electrical Specifications-DHI1206

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI1206-4R7M	4.7	8.5	13.0	13.0	22.5
DHI1206-5R6M	5.6	10.5	15.0	12.5	20.0
DHI1206-6R8M	6.8	11.0	14.0	11.5	18.5
DHI1206-8R2M	8.2	13.6	16.0	10.0	16.5
DHI1206-100M	10	18.0	20.7	9.0	16.0
DHI1206-150M	15	29.0	34.0	8.0	12.0
DHI1206-220M	22	34.0	39.5	6.0	10.0
DHI1206-330M	33	65.0	75.0	4.5	7.5
DHI1206-470M	47	80.0	90.0	4.0	6.0
DHI1206-680M	68	120.0	140.0	3.0	4.5

Electrical Specifications-DHI1207

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI1207-820M	82	104.0	125.0	2.0	5.0
DHI1207-101M	100	115.0	140.0	1.8	3.5
DHI1207-221M	220	365.0	380.0	1.2	2.5

Electrical Specifications-DHI1707

Part Number	Inductance(uH) (±20%)	DCR (mΩ)		Irms(Max) (A)	Isat(Max) (A)
		(Typ.)	(Max.)		
DHI1707-1R5M	1.5	1.85	2.15	40.0	40.0
DHI1707-2R2M	2.2	2.15	2.50	34.0	37.0
DHI1707-4R7M	4.7	4.12	4.70	24.0	27.0
DHI1707-6R8M	6.8	6.55	7.55	20.0	22.0
DHI1707-8R2M	8.2	8.10	8.70	16.0	20.0
DHI1707-100M	10.0	9.30	10.00	14.0	18.0
DHI1707-150M	15	14.50	15.50	12.0	13.0
DHI1707-220M	22	20.50	23.00	9.5	11.0
DHI1707-330M	33	35.10	37.00	9.0	10.0
DHI1707-470M	47	41.00	47.00	6.8	7.5
DHI1707-680M	68	74.00	85.00	5.2	6.5