

◆ Features

1. Magnetic Shielded surface mount inductor with high current rating.
2. Low resistance to keep power loss minimum.
3. The products contain no lead and also support lead-free soldering.



◆ Applications

Excellent for power line DC-DC conversion applications used in hard disk, notebook computers and other electronic equipment.

◆ Lead Free Part Numbering

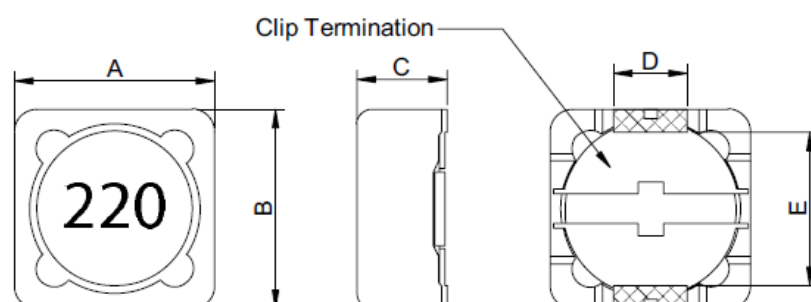
SLH 1204 S 100 M T T
(1) (2) (3) (4) (5) (6) (7)

- (1) Series Type
- (2) Dimension: A X C
- (3) Material Code
- (4) Inductance: 2R2=2.2 μ H ;
100=10 μ H; 101=100 μ H
- (5) Inductance Tolerance: M= \pm 20%, Y= \pm 30%
- (6) Company Code
- (7) Packaging : packed in embossed carrier



◆ Dimensions

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SLH0703S	7.3 \pm 0.3	7.3 \pm 0.3	3.5 Max.	1.8 \pm 0.2	5.0 \pm 0.2
SLH0704S	7.3 \pm 0.3	7.3 \pm 0.3	4.5 Max.	1.8 \pm 0.2	5.0 \pm 0.2
SLH1204S	12.0 \pm 0.3	12.0 \pm 0.3	5.0 Max.	5.0 \pm 0.2	7.6 \pm 0.2
SLH1205S	12.0 \pm 0.3	12.0 \pm 0.3	6.0 Max.	5.0 \pm 0.2	7.6 \pm 0.2
SLH1207S	12.0 \pm 0.3	12.0 \pm 0.3	8.0 Max.	5.0 \pm 0.2	7.6 \pm 0.2



◆ Specification

Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (m Ω) max.	IDC (A) max.
SLH0703 Series				
SLH0703SR47MTT	0.47 \pm 20%	1KHz/1V	17	10.50
SLH0703S1R0MTT	1.0 \pm 20%	1KHz/1V	17	7.00
SLH0703S1R5MTT	1.5 \pm 20%	1KHz/1V	17	6.00
SLH0703S2R2MTT	2.2 \pm 20%	1KHz/1V	25	4.50
SLH0703S3R3MTT	3.3 \pm 20%	1KHz/1V	25	4.20
SLH0703S4R7MTT	4.7 \pm 20%	1KHz/1V	58	3.65
SLH0703S6R8MTT	6.8 \pm 20%	1KHz/1V	58	3.00
SLH0703S100MTT	10 \pm 20%	1KHz/1V	69	2.30
SLH0703S120MTT	12 \pm 20%	1KHz/1V	83	2.20
SLH0703S150MTT	15 \pm 20%	1KHz/1V	108	2.00
SLH0703S180MTT	18 \pm 20%	1KHz/1V	125	1.80
SLH0703S220MTT	22 \pm 20%	1KHz/1V	158	1.50
SLH0703S330MTT	33 \pm 20%	1KHz/1V	232	1.20
SLH0703S390MTT	39 \pm 20%	1KHz/1V	282	0.90
SLH0703S400MTT	40 \pm 20%	1KHz/1V	291	0.90
SLH0703S470MTT	47 \pm 20%	1KHz/1V	374	0.80
SLH0703S560MTT	56 \pm 20%	1KHz/1V	415	0.70
SLH0703S680MTT	68 \pm 20%	1KHz/1V	432	0.61
SLH0703S820MTT	82 \pm 20%	1KHz/1V	573	0.55
SLH0703S101MTT	100 \pm 20%	1KHz/1V	656	0.50
SLH0703S151MTT	150 \pm 20%	1KHz/1V	830	0.46
SLH0703S181MTT	180 \pm 20%	1KHz/1V	913	0.39
SLH0703S221MTT	220 \pm 20%	1KHz/1V	1370	0.38
SLH0703S271MTT	270 \pm 20%	1KHz/1V	1917	0.36
SLH0703S331MTT	330 \pm 20%	1KHz/1V	2175	0.35
SLH0703S471MTT	470 \pm 20%	1KHz/1V	3469	0.32
SLH0703S681MTT	680 \pm 20%	1KHz/1V	4756	0.30
SLH0703S821MTT	820 \pm 20%	1KHz/1V	5810	0.27
SLH0703S102MTT	1000 \pm 20%	1KHz/1V	8018	0.23

◆ Specification

Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (m Ω) max.	IDC (A) max.
SLH0704 Series				
SLH0704S1R0MTT	1.0 \pm 20%	1KHz/1V	12	9.00
SLH0704S1R2MTT	1.2 \pm 20%	1KHz/1V	21	8.00
SLH0704S1R5MTT	1.5 \pm 20%	1KHz/1V	25	8.00
SLH0704S1R8MTT	1.8 \pm 20%	1KHz/1V	27	7.00
SLH0704S2R2MTT	2.2 \pm 20%	1KHz/1V	29	6.20
SLH0704S2R7MTT	2.7 \pm 20%	1KHz/1V	33	5.50
SLH0704S3R3MTT	3.3 \pm 20%	1KHz/1V	37	4.70
SLH0704S4R7MTT	4.7 \pm 20%	1KHz/1V	39	3.50
SLH0704S6R2MTT	6.2 \pm 20%	1KHz/1V	42	3.40
SLH0704S6R8MTT	6.8 \pm 20%	1KHz/1V	42	3.40
SLH0704S7R0MTT	7.0 \pm 20%	1KHz/1V	43	3.30
SLH0704S7R7MTT	7.7 \pm 20%	1KHz/1V	44	3.10
SLH0704S100MTT	10 \pm 20%	1KHz/1V	46	3.00
SLH0704S150MTT	15 \pm 20%	1KHz/1V	67	2.50
SLH0704S180MTT	18 \pm 20%	1KHz/1V	83	2.00
SLH0704S220MTT	22 \pm 20%	1KHz/1V	91	1.95
SLH0704S270MTT	27 \pm 20%	1KHz/1V	106	1.50
SLH0704S330MTT	33 \pm 20%	1KHz/1V	208	1.20
SLH0704S390MTT	39 \pm 20%	1KHz/1V	249	1.10
SLH0704S470MTT	47 \pm 20%	1KHz/1V	266	1.00
SLH0704S560MTT	56 \pm 20%	1KHz/1V	291	1.00
SLH0704S680MTT	68 \pm 20%	1KHz/1V	315	0.90
SLH0704S101MTT	100 \pm 20%	1KHz/1V	506	0.85
SLH0704S121MTT	120 \pm 20%	1KHz/1V	540	0.85
SLH0704S151MTT	150 \pm 20%	1KHz/1V	730	0.75
SLH0704S171MTT	170 \pm 20%	1KHz/1V	1079	0.74
SLH0704S181MTT	180 \pm 20%	1KHz/1V	1121	0.70
SLH0704S221MTT	220 \pm 20%	1KHz/1V	1162	0.62
SLH0704S271MTT	270 \pm 20%	1KHz/1V	1245	0.55
SLH0704S331MTT	330 \pm 20%	1KHz/1V	1245	0.50
SLH0704S391MTT	390 \pm 20%	1KHz/1V	1494	0.48
SLH0704S471MTT	470 \pm 20%	1KHz/1V	2158	0.40

◆ Specification

Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (m Ω) max.	IDC (A) max.
SLH1204 Series				
SLH1204S3R9YTT	3.9 \pm 30%	1V/100K	15	6.50
SLH1204S4R7YTT	4.7 \pm 30%	1V/100K	18	5.70
SLH1204S6R8YTT	6.8 \pm 30%	1V/100K	23	4.90
SLH1204S8R2YTT	8.2 \pm 30%	1V/100K	26	4.60
SLH1204S100MTT	10 \pm 20%	1V/100K	28	4.50
SLH1204S120MTT	12 \pm 20%	1V/100K	38	4.10
SLH1204S150MTT	15 \pm 20%	1V/100K	50	3.20
SLH1204S180MTT	18 \pm 20%	1V/100K	57	3.10
SLH1204S220MTT	22 \pm 20%	1V/100K	66	2.90
SLH1204S270MTT	27 \pm 20%	1V/100K	80	2.80
SLH1204S330MTT	33 \pm 20%	1V/100K	97	2.70
SLH1204S390MTT	39 \pm 20%	1V/100K	132	2.10
SLH1204S470MTT	47 \pm 20%	1V/100K	160	1.90
SLH1204S560MTT	56 \pm 20%	1V/100K	190	1.80
SLH1204S680MTT	68 \pm 20%	1V/100K	220	1.50
SLH1204S820MTT	82 \pm 20%	1V/100K	260	1.30
SLH1204S101MTT	100 \pm 20%	1V/100K	308	1.20
SLH1204S121MTT	120 \pm 20%	1V/100K	380	1.10
SLH1204S151MTT	150 \pm 20%	1V/100K	530	0.95
SLH1204S181MTT	180 \pm 20%	1V/100K	620	0.85
SLH1204S221MTT	220 \pm 20%	1V/100K	700	0.80
SLH1204S271MTT	270 \pm 20%	1V/100K	870	0.60
SLH1204S331MTT	330 \pm 20%	1V/100K	990	0.50

◆ Specification

Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (m Ω) max.	IDC (A) max.
SLH1205 Series				
SLH1205S1R3YTT	1.3 \pm 30%	1V/7.96M	12	8.00
SLH1205S2R1YTT	2.1 \pm 30%	1V/7.96M	14	7.00
SLH1205S3R1YTT	3.1 \pm 30%	1V/7.96M	17	6.00
SLH1205S4R4YTT	4.4 \pm 30%	1V/7.96M	2	5.00
SLH1205S5R8YTT	5.8 \pm 30%	1V/7.96M	21	4.40
SLH1205S7R5YTT	7.5 \pm 30%	1V/7.96M	24	4.20
SLH1205S100MTT	10 \pm 20%	1V/1K	25	4.00
SLH1205S120MTT	12 \pm 20%	1V/1K	27	3.50
SLH1205S150MTT	15 \pm 20%	1V/1K	30	3.30
SLH1205S180MTT	18 \pm 20%	1V/1K	34	3.00
SLH1205S220MTT	22 \pm 20%	1V/1K	36	2.80
SLH1205S270MTT	27 \pm 20%	1V/1K	51	2.30
SLH1205S330MTT	33 \pm 20%	1V/1K	57	2.10
SLH1205S390MTT	39 \pm 20%	1V/1K	68	2.00
SLH1205S470MTT	47 \pm 20%	1V/1K	75	1.80
SLH1205S560MTT	56 \pm 20%	1V/1K	110	1.70
SLH1205S680MTT	68 \pm 20%	1V/1K	120	1.50
SLH1205S820MTT	82 \pm 20%	1V/1K	140	1.40
SLH1205S101MTT	100 \pm 20%	1V/1K	160	1.30
SLH1205S121MTT	120 \pm 20%	1V/1K	170	1.10
SLH1205S151MTT	150 \pm 20%	1V/1K	230	1.00
SLH1205S181MTT	180 \pm 20%	1V/1K	290	0.90
SLH1205S221MTT	220 \pm 20%	1V/1K	400	0.80
SLH1205S271MTT	270 \pm 20%	1V/1K	460	0.75
SLH1205S331MTT	330 \pm 20%	1V/1K	510	0.68
SLH1205S391MTT	390 \pm 20%	1V/1K	690	0.65
SLH1205S471MTT	470 \pm 20%	1V/1K	770	0.58
SLH1205S561MTT	560 \pm 20%	1V/1K	860	0.54
SLH1205S681MTT	680 \pm 20%	1V/1K	1200	0.48
SLH1205S821MTT	820 \pm 20%	1V/1K	1340	0.43
SLH1205S102MTT	1000 \pm 20%	1V/1K	1530	0.4

◆ Specification

Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (m Ω) max.	IDC (A) max.
SLH1207 Series				
SLH1207S1R2YTT	1.2 \pm 30%	1V/100K	7.0	9.80
SLH1207S2R4YTT	2.4 \pm 30%	1V/100K	11.5	8.00
SLH1207S3R5YTT	3.5 \pm 30%	1V/100K	13.5	7.50
SLH1207S3R9YTT	3.9 \pm 30%	1V/100K	14.5	7.00
SLH1207S4R7YTT	4.7 \pm 30%	1V/100K	15.8	6.80
SLH1207S6R1YTT	6.1 \pm 30%	1V/100K	17.6	6.60
SLH1207S7R6YTT	7.6 \pm 30%	1V/100K	20.0	5.90
SLH1207S100MTT	10 \pm 20%	1V/1K	21.6	5.40
SLH1207S120MTT	12 \pm 20%	1V/1K	24.3	4.90
SLH1207S150MTT	15 \pm 20%	1V/1K	27.0	4.50
SLH1207S180MTT	18 \pm 20%	1V/1K	39.2	3.90
SLH1207S220MTT	22 \pm 20%	1V/1K	43.2	3.60
SLH1207S270MTT	27 \pm 20%	1V/1K	45.9	3.40
SLH1207S330MTT	33 \pm 20%	1V/1K	64.8	3.00
SLH1207S390MTT	39 \pm 20%	1V/1K	72.9	2.75
SLH1207S470MTT	47 \pm 20%	1V/1K	100	2.50
SLH1207S560MTT	56 \pm 20%	1V/1K	110	2.35
SLH1207S680MTT	68 \pm 20%	1V/1K	140	2.10
SLH1207S820MTT	82 \pm 20%	1V/1K	160	1.95
SLH1207S101MTT	100 \pm 20%	1V/1K	220	1.70
SLH1207S121MTT	120 \pm 20%	1V/1K	250	1.60
SLH1207S151MTT	150 \pm 20%	1V/1K	280	1.42
SLH1207S181MTT	180 \pm 20%	1V/1K	350	1.30
SLH1207S221MTT	220 \pm 20%	1V/1K	390	1.16
SLH1207S271MTT	270 \pm 20%	1V/1K	560	1.06
SLH1207S331MTT	330 \pm 20%	1V/1K	640	0.95
SLH1207S391MTT	390 \pm 20%	1V/1K	700	0.88
SLH1207S471MTT	470 \pm 20%	1V/1K	980	0.79
SLH1207S561MTT	560 \pm 20%	1V/1K	1070	0.73
SLH1207S681MTT	680 \pm 20%	1V/1K	1460	0.67
SLH1207S821MTT	820 \pm 20%	1V/1K	1640	0.60
SLH1207S102MTT	1000 \pm 20%	1V/1K	1820	0.55

◆ **Note**

1. Inductance measured by LCR Meter HP 4284A or equivalent.
2. DCR measured by Milliohm meter HP 4338B or equivalent.
3. Rated current is measured by LCR-meter 3260B (WK) & DC Bias 3265B(WK).
4. Maximum allowable DC current is that which causes a 25% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 25°C).

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