SLH Series

Shielded High Current SMD Power Inductor

◆ 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.

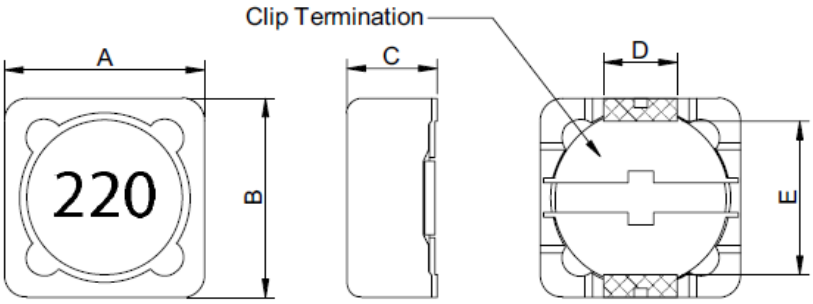
◆ Lead Free Part Numbering

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=2.2μH；
100=10μH；101=100μH
(5) Inductance Tolerance：M=±20%,N=±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±0.3	7.3±0.3	3.5 Max.	1.8±0.2	5.0±0.2
SLH0704S	7.3±0.3	7.3±0.3	4.5 Max.	1.8±0.2	5.0±0.2
SLH1204S	12.0±0.3	12.0±0.3	5.0 Max.	5.0±0.2	7.6±0.2
SLH1205S	12.0±0.3	12.0±0.3	6.0 Max.	5.0±0.2	7.6±0.2
SLH1207S	12.0±0.3	12.0±0.3	8.0 Max.	5.0±0.2	7.6±0.2



◆ Specification

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

◆ Specification

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

◆ Specification

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR (mΩ) max.	IDC (A) max.
SLH1204 Series				
SLH1204S3R9NTT	3.9±30%	1V/100K	15	6.50
SLH1204S4R7NTT	4.7±30%	1V/100K	18	5.70
SLH1204S6R8NTT	6.8±30%	1V/100K	23	4.90
SLH1204S8R2NTT	8.2±30%	1V/100K	26	4.60
SLH1204S100MTT	10±20%	1V/100K	28	4.50
SLH1204S120MTT	12±20%	1V/100K	38	4.10
SLH1204S150MTT	15±20%	1V/100K	50	3.20
SLH1204S180MTT	18±20%	1V/100K	57	3.10
SLH1204S220MTT	22±20%	1V/100K	66	2.90
SLH1204S270MTT	27±20%	1V/100K	80	2.80
SLH1204S330MTT	33±20%	1V/100K	97	2.70
SLH1204S390MTT	39±20%	1V/100K	132	2.10
SLH1204S470MTT	47±20%	1V/100K	160	1.90
SLH1204S560MTT	56±20%	1V/100K	190	1.80
SLH1204S680MTT	68±20%	1V/100K	220	1.50
SLH1204S820MTT	82±20%	1V/100K	260	1.30
SLH1204S101MTT	100±20%	1V/100K	308	1.20
SLH1204S121MTT	120±20%	1V/100K	380	1.10
SLH1204S151MTT	150±20%	1V/100K	530	0.95
SLH1204S181MTT	180±20%	1V/100K	620	0.85
SLH1204S221MTT	220±20%	1V/100K	700	0.80
SLH1204S271MTT	270±20%	1V/100K	870	0.60
SLH1204S331MTT	330±20%	1V/100K	990	0.50

◆ Specification

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR (mΩ) max.	IDC (A) max.
SLH1205 Series				
SLH1205S1R3NTT	1.3±30%	1V/1K	12	8.00
SLH1205S2R2NTT	2.2±30%	1V/1K	14	7.00
SLH1205S3R3NTT	3.3±30%	1V/1K	17	6.00
SLH1205S4R7NTT	4.7±30%	1V/1K	20	5.00
SLH1205S5R8NTT	5.8±30%	1V/1K	21	4.40
SLH1205S7R5NTT	7.5±30%	1V/1K	24	4.20
SLH1205S100MTT	10±20%	1V/1K	25	4.00
SLH1205S120MTT	12±20%	1V/1K	27	3.50
SLH1205S150MTT	15±20%	1V/1K	30	3.30
SLH1205S180MTT	18±20%	1V/1K	34	3.00
SLH1205S220MTT	22±20%	1V/1K	36	2.80
SLH1205S270MTT	27±20%	1V/1K	51	2.30
SLH1205S330MTT	33±20%	1V/1K	57	2.10
SLH1205S390MTT	39±20%	1V/1K	68	2.00
SLH1205S470MTT	47±20%	1V/1K	75	1.80
SLH1205S560MTT	56±20%	1V/1K	110	1.70
SLH1205S680MTT	68±20%	1V/1K	120	1.50
SLH1205S820MTT	82±20%	1V/1K	140	1.40
SLH1205S101MTT	100±20%	1V/1K	160	1.30
SLH1205S121MTT	120±20%	1V/1K	170	1.10
SLH1205S151MTT	150±20%	1V/1K	230	1.00
SLH1205S181MTT	180±20%	1V/1K	290	0.90
SLH1205S221MTT	220±20%	1V/1K	400	0.80
SLH1205S271MTT	270±20%	1V/1K	460	0.75
SLH1205S331MTT	330±20%	1V/1K	510	0.68
SLH1205S391MTT	390±20%	1V/1K	690	0.65
SLH1205S471MTT	470±20%	1V/1K	770	0.58
SLH1205S561MTT	560±20%	1V/1K	860	0.54
SLH1205S681MTT	680±20%	1V/1K	1200	0.48
SLH1205S821MTT	820±20%	1V/1K	1340	0.43
SLH1205S102MTT	1000±20%	1V/1K	1530	0.4

◆ Specification

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR (mΩ) max.	IDC (A) max.
SLH1207 Series				
SLH1207S1R2NTT	1.2±30%	1V/100K	7.0	9.80
SLH1207S2R2NTT	2.2±30%	1V/100K	11.5	8.00
SLH1207S3R3NTT	3.3±30%	1V/100K	13.5	7.50
SLH1207S3R9NTT	3.9±30%	1V/100K	14.5	7.00
SLH1207S4R7NTT	4.7±30%	1V/100K	15.8	6.80
SLH1207S5R5NTT	5.6±30%	1V/100K	17.6	6.60
SLH1207S7R6NTT	7.6±30%	1V/100K	20.0	5.90
SLH1207S100MTT	10±20%	1V/1K	21.6	5.40
SLH1207S120MTT	12±20%	1V/1K	24.3	4.90
SLH1207S150MTT	15±20%	1V/1K	27.0	4.50
SLH1207S180MTT	18±20%	1V/1K	39.2	3.90
SLH1207S220MTT	22±20%	1V/1K	43.2	3.60
SLH1207S270MTT	27±20%	1V/1K	45.9	3.40
SLH1207S330MTT	33±20%	1V/1K	64.8	3.00
SLH1207S390MTT	39±20%	1V/1K	72.9	2.75
SLH1207S470MTT	47±20%	1V/1K	100	2.50
SLH1207S560MTT	56±20%	1V/1K	110	2.35
SLH1207S680MTT	68±20%	1V/1K	140	2.10
SLH1207S820MTT	82±20%	1V/1K	160	1.95
SLH1207S101MTT	100±20%	1V/1K	220	1.70
SLH1207S121MTT	120±20%	1V/1K	250	1.60
SLH1207S151MTT	150±20%	1V/1K	280	1.42
SLH1207S181MTT	180±20%	1V/1K	350	1.30
SLH1207S221MTT	220±20%	1V/1K	390	1.16
SLH1207S271MTT	270±20%	1V/1K	560	1.06
SLH1207S331MTT	330±20%	1V/1K	640	0.95
SLH1207S391MTT	390±20%	1V/1K	700	0.88
SLH1207S471MTT	470±20%	1V/1K	980	0.79
SLH1207S561MTT	560±20%	1V/1K	1070	0.73
SLH1207S681MTT	680±20%	1V/1K	1460	0.67
SLH1207S821MTT	820±20%	1V/1K	1640	0.60
SLH1207S102MTT	1000±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℃, whichever is smaller. (Reference ambient temperature 25℃).

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