

SSL-HC Series



This series is specially designed for high current, low voltage DC-DC converter applications. Its simple, rugged design provides current ratings normally available in larger packages. With tinned self-leaded construction, SSL-HC series can achieve very low DCR values and excellent solderability. In addition, they have very low resistance. Standard parts shown in catalogue and custom values are also available.

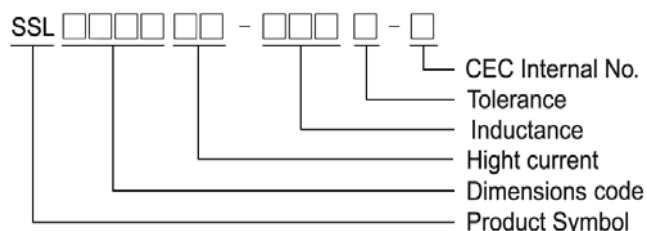
Features

- RoHS, Halogen Free and REACH Compliance
- Unshielded power inductor
- Various package size and wide inductance range. SSL-HC family is designed for low resistance and high current purpose

Applications

- DC/DC converters

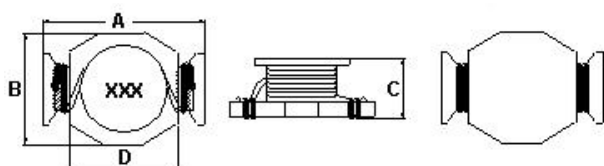
Product Identification



- Packaging: T : Tape and Reel , B : Bulk

Shape and Dimension

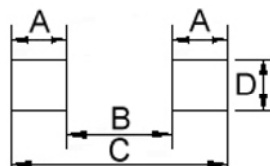
SSL0503HC



Dimension in mm

A	B	C	D
8.89 ⁺⁰	6.10 ⁺⁰	5.00 ⁺⁰	5.84

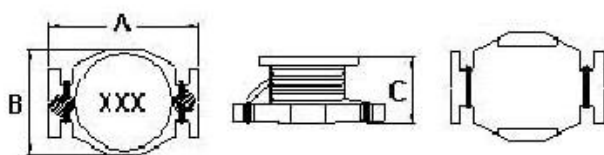
Recommended Pattern



Dimension in mm

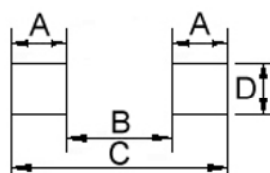
A	B	C	D
1.91	4.06	8.89	5.08

SSL0804HC



Dimension in mm

A	B	C
13.21 ⁺⁰	9.91 ⁺⁰	6.35 ⁺⁰



Dimension in mm

A	B	C	D
1.52	8.64	11.68	4.06

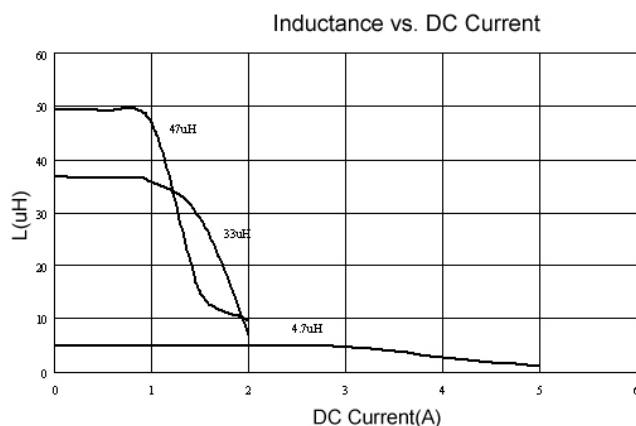
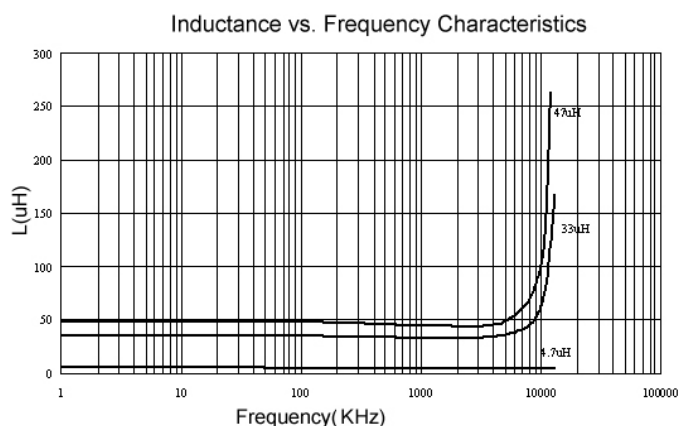
Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance ($\pm\%$)	SRF (MHz) Typ.	RDC (Ω) Max	Isat (A)	Irms (A)
SSL0503HC-R33M-N	0.33	20	330	0.007	8.2	7.0
SSL0503HC-R56M-N	0.56	20	200	0.010	7.7	6.0
SSL0503HC-1R0M-N	1.0	20	140	0.017	5.3	4.4
SSL0503HC-1R2M-N	1.2	20	140	0.017	5.3	4.4
SSL0503HC-1R6M-N	1.6	20	100	0.022	4.5	4.0
SSL0503HC-2R2M-N	2.2	20	100	0.035	3.5	3.1
SSL0503HC-4R7M-N	4.7	20	50	0.054	2.6	2.2
SSL0503HC-6R8M-N	6.8	20	45	0.070	2.0	1.8
SSL0503HC-100M-N	10	20	40	0.111	1.9	1.5
SSL0503HC-150M-N	15	20	30	0.17	1.5	1.2
SSL0503HC-220M-N	22	20	25	0.25	1.2	1.0
SSL0503HC-270M-N	27	20	20	0.32	1.0	0.85
SSL0503HC-330M-N	33	20	20	0.37	0.99	0.82
SSL0503HC-470M-N	47	20	15	0.47	0.87	0.72

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L : E4980 or HP4284A , 100kHz 0.25V
 SRF : HP4291A or HP4192A
 RDC : Chroma 16502
 Isat : HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments :



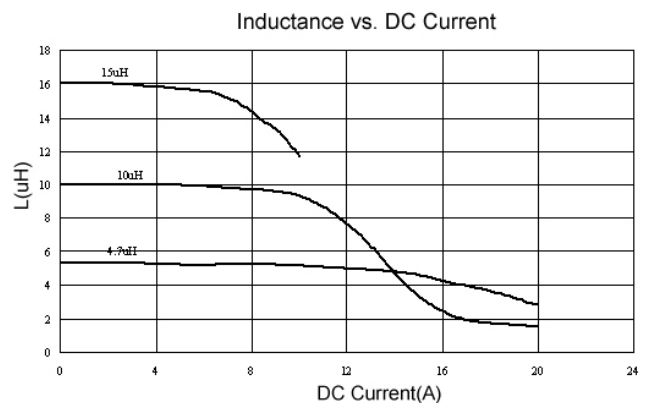
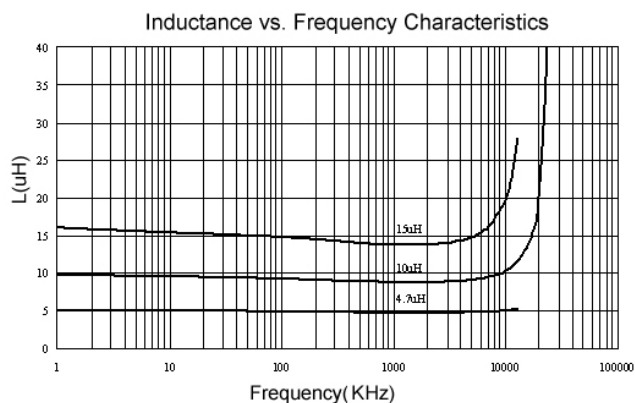
Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	SRF (MHz) Typ.	RDC (Ω) Max	Isat (A)	Irms (A)
SSL0804HC-R33M-N	0.33	20	300	0.002	20.0	16.0
SSL0804HC-R68M-N	0.68	20	200	0.005	13.0	12.0
SSL0804HC-1R0M-N	1.0	20	100	0.006	11.0	10.0
SSL0804HC-1R5M-N	1.5	20	90	0.008	9.0	9.0
SSL0804HC-2R2M-N	2.2	20	90	0.011	7.8	7.4
SSL0804HC-2R7M-N	2.7	20	65	0.012	7.0	6.6
SSL0804HC-3R3M-N	3.3	20	65	0.014	6.4	5.9
SSL0804HC-4R7M-N	4.7	20	45	0.018	5.4	4.8
SSL0804HC-6R8M-N	6.8	20	35	0.035	3.6	5.0
SSL0804HC-100M-N	10	20	26	0.04	3.3	4.3
SSL0804HC-150M-N	15	20	21	0.06	2.4	3.5
SSL0804HC-220M-N	22	20	17	0.08	2.0	2.8
SSL0804HC-330M-N	33	20	14	0.15	1.7	2.1
SSL0804HC-470M-N	47	20	12	0.28	1.4	1.7
SSL0804HC-680M-N	68	20	9	0.3	1.2	1.5
SSL0804HC-101M-N	100	20	7	0.4	0.95	1.2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
L : E4980 or HP4284A , 100kHz 0.1V
SRF : HP4291A or HP4192A
RDC : Chroma 16502
Isat : HP4284A+HP42841A or WK3260B+WK3265B.

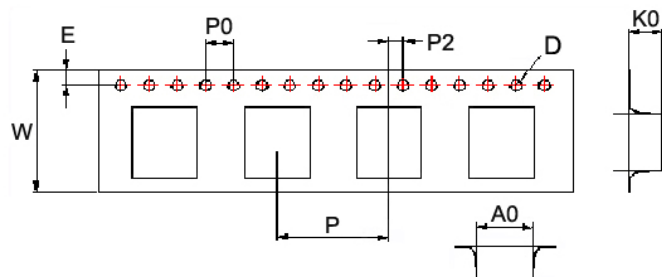
Test Instruments :



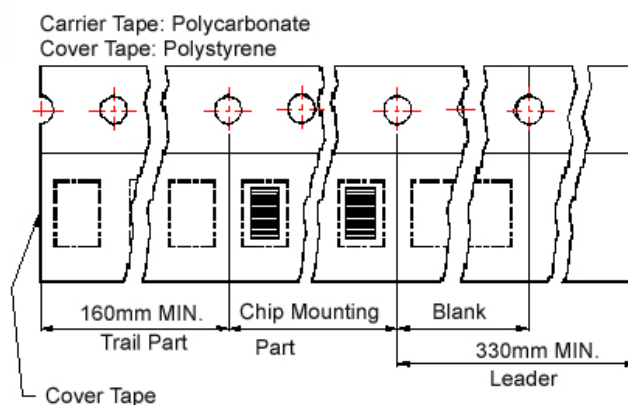
SMD Unshielded Power Inductors – SSL-HC Series

Packaging Specifications

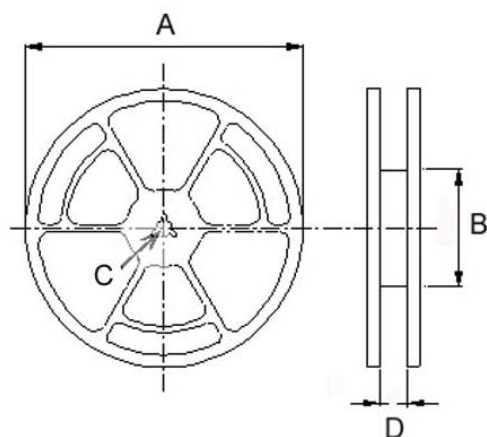
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TPYE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / Reel
SSL 0503HC	5.3	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
SSL 0804HC	6.1	1.55	1.75	24	16	4	2	330	100	13	24.2	700

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