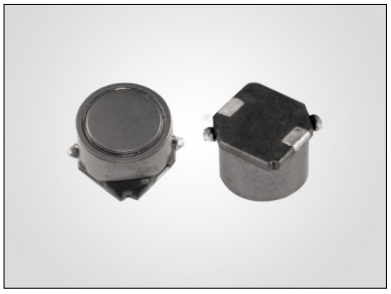
SMT Power Inductors - MSLC Series

Meisongbei



Features

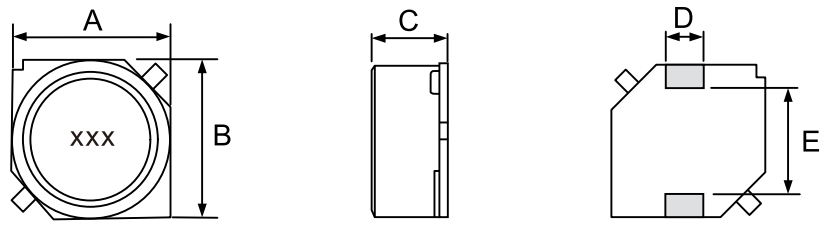
- Magnetically shielded construction
- Suitable for large current
- RoHS, Halogen Free and REACH compliance

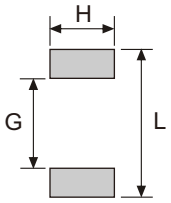
General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

Shape and Dimensions (Unit:mm)





Recommended Layout

Type	A (max)	B (max)	C (max)	D (Ref)	E (Ref)	G (Ref)	H (Ref)	L (Ref)
MSLC7635	7.6	7.6	3.5	2.0	5.4	3.7	2.2	7.9
MSLC7651	7.6	7.6	5.1	2.0	5.4	3.7	2.2	7.9
MSLC125	12.8	12.8	5.9	3.0	8.6	8.0	3.2	13.6
MSLC126	12.8	12.8	6.9	3.0	8.6	8.0	3.2	13.6
MSLC127	12.8	12.8	7.9	3.0	8.6	8.0	3.2	13.6

Electrical Characteristics For MSLC7635 Series

Part Number	Inductance [μH]	DCR(±20%) [Ω]	Isat(max) [A]
MSLC7635-3R3M	3.3 ±20%	0.035	2.26
MSLC7635-4R7M	4.7 ±20%	0.043	1.86
MSLC7635-6R8M	6.8 ±20%	0.055	1.76
MSLC7635-100M	10 ±20%	0.080	1.34
MSLC7635-120M	12 ±20%	0.090	1.23
MSLC7635-150M	15 ±20%	0.120	1.09
MSLC7635-180M	18 ±20%	0.130	0.99
MSLC7635-220M	22 ±20%	0.150	0.90
MSLC7635-270M	27 ±20%	0.210	0.81
MSLC7635-330M	33 ±20%	0.250	0.72
MSLC7635-390M	39 ±20%	0.310	0.67
MSLC7635-470M	47 ±20%	0.350	0.60
MSLC7635-560M	56 ±20%	0.430	0.55
MSLC7635-680M	68 ±20%	0.520	0.50
MSLC7635-820M	82 ±20%	0.600	0.46
MSLC7635-101M	100 ±20%	0.790	0.41

Electrical Characteristics For MSLC7651 Series

Part Number	Inductance [μH]	DCR(±20%) [Ω]	Isat(max) [A]
MSLC7651-3R3M	3.3 ±20%	0.034	2.14
MSLC7651-4R7M	4.7 ±20%	0.039	1.96
MSLC7651-6R8M	6.8 ±20%	0.050	1.79
MSLC7651-100M	10 ±20%	0.055	1.63
MSLC7651-120M	12 ±20%	0.073	1.42
MSLC7651-150M	15 ±20%	0.081	1.33
MSLC7651-180M	18 ±20%	0.102	1.15
MSLC7651-220M	22 ±20%	0.115	1.09
MSLC7651-270M	27 ±20%	0.159	0.91
MSLC7651-330M	33 ±20%	0.182	0.84
MSLC7651-390M	39 ±20%	0.199	0.80
MSLC7651-470M	47 ±20%	0.221	0.75
MSLC7651-560M	56 ±20%	0.306	0.64
MSLC7651-680M	68 ±20%	0.345	0.60
MSLC7651-820M	82 ±20%	0.390	0.57
MSLC7651-101M	100 ±20%	0.432	0.50
MSLC7651-121M	120 ±20%	0.440	0.47
MSLC7651-151M	150 ±20%	0.730	0.40
MSLC7651-181M	180 ±20%	0.780	0.39
MSLC7651-221M	220 ±20%	0.940	0.33
MSLC7651-271M	270 ±20%	1.250	0.31
MSLC7651-331M	330 ±20%	1.400	0.27
MSLC7651-391M	390 ±20%	1.520	0.27
MSLC7651-471M	470 ±20%	1.700	0.25
MSLC7651-561M	560 ±20%	2.390	0.22

Electrical Characteristics For MSLC125 Series

Part Number	Inductance [μH]	DCR(±20%) [Ω]	Isat(max) [A]	Irms(max) [A]
MSLC125-6R0N	6.0 ±30%	0.016	3.60	4.90
MSLC125-100M	10 ±20%	0.022	3.40	4.30
MSLC125-150M	15 ±20%	0.026	2.80	3.90
MSLC125-220M	22 ±20%	0.034	2.30	3.40
MSLC125-330M	33 ±20%	0.042	1.90	3.10
MSLC125-470M	47 ±20%	0.062	1.60	2.50
MSLC125-680M	68 ±20%	0.083	1.30	2.20
MSLC125-101M	100 ±20%	0.117	1.10	1.80
MSLC125-151M	150 ±20%	0.190	0.88	1.40
MSLC125-221M	220 ±20%	0.270	0.72	1.20
MSLC125-331M	330 ±20%	0.410	0.59	1.00
MSLC125-471M	470 ±20%	0.520	0.49	0.88
MSLC125-681M	680 ±20%	0.760	0.43	0.73
MSLC125-102M	1000 ±20%	1.120	0.34	0.60
MSLC125-152M	1500 ±20%	1.730	0.29	0.48

Electrical Characteristics For MSLC126 Series

Part Number	Inductance [μH]	DCR(±20%) [Ω]	Isat(max) [A]	Irms(max) [A]
MSLC126-2R0N	2.0 ±30%	0.012	10.0	6.2
MSLC126-4R2N	4.2 ±30%	0.015	7.3	5.5
MSLC126-7R0N	7.0 ±30%	0.018	5.7	5.0
MSLC126-100M	10 ±20%	0.020	5.0	4.8
MSLC126-150M	15 ±20%	0.024	4.2	4.4
MSLC126-220M	22 ±20%	0.032	3.5	3.8
MSLC126-330M	33 ±20%	0.041	2.8	3.4
MSLC126-470M	47 ±20%	0.058	2.4	2.8
MSLC126-680M	68 ±20%	0.079	2.0	2.4
MSLC126-101M	100 ±20%	0.123	1.6	1.9
MSLC126-151M	150 ±20%	0.273	1.0	1.2

Electrical Characteristics For MSLC127 Series

Part Number	Inductance [μH]	DCR(±20%) [Ω]	Isat(max) [A]	Irms(max) [A]
MSLC127-1R2N	1.2 ±30%	0.007	13.0	8.2
MSLC127-2R7N	2.7 ±30%	0.009	10.0	7.0
MSLC127-3R9N	3.9 ±30%	0.011	9.0	6.7
MSLC127-5R6N	5.6 ±30%	0.012	7.8	6.3
MSLC127-6R8N	6.8 ±30%	0.013	7.2	5.9
MSLC127-100M	10 ±20%	0.016	5.5	5.4
MSLC127-150M	15 ±20%	0.018	4.7	5.0
MSLC127-220M	22 ±20%	0.026	4.0	4.0
MSLC127-330M	33 ±20%	0.040	3.2	6.4
MSLC127-470M	47 ±20%	0.053	2.7	3.0
MSLC127-680M	68 ±20%	0.078	2.0	2.4
MSLC127-101M	100 ±20%	0.125	1.9	1.9
MSLC127-151M	150 ±20%	0.175	1.5	1.6
MSLC127-221M	220 ±20%	0.258	1.3	1.3

- Inductance tested at 100kHz
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 10% from its value without current