MAGNETIC TECHNOLOGY WORLDWIDE SDN BHD

KEENTECH ELECTRONICS CO. LTD

SMD Power Inductors
MTSLF Series

Features

- Low-profile type with low RDC and large current
- The magnetic shielded type is suitable and high density mounting
- Available on tape and reel for auto-insertion
- Ideal for a variety of DC-DC converter inductor applications

Applications

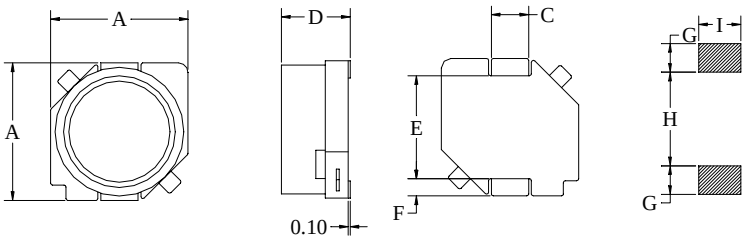
- Portable communication equipment
- Notebook PC, digital camera, LCD television set
- Power supply for VTR, OA equipment
- DC / DC converters

Product Identifications

MTSLF	□□□□	-	□□□	□
(1)	(2)		(3)	(4)

(1) Type
(2) Dimensions
(3) Inductance
(4) Tolerance

Shapes and Dimensions



SMD Power Inductors
MTSLF Series

TYPE	A	D	C	E	F	G	H	I
MTSLF6025	6.00±0.20	2.50±0.20	2.00±0.10	4.0TYP	0.90	1.50	4.00	2.20
MTSLF6028	6.00±0.20	2.80±0.20	2.00±0.10	4.0TYP	0.90	1.50	4.00	2.20
MTSLF7028	7.00±0.20	2.80±0.20	2.00±0.10	4.90TYP	0.90	1.50	4.90	2.20
MTSLF7030	7.00±0.20	3.00±0.20	2.00±0.10	4.90TYP	0.90	1.50	4.90	2.20
MTSLF7032	7.00±0.20	3.20±0.20	2.00±0.10	4.90TYP	0.90	1.50	4.90	2.20
MTSLF7045	7.00±0.20	4.50±0.30	2.00±0.10	4.90TYP	0.90	1.50	4.90	2.20
MTSLF10145	10.10±0.30	4.50±0.30	3.00±0.10	5.0±0.2	2.0±0.15	2.50	5.80	2.20
MTSLF10155	10.10±0.20	5.50±0.30	3.00±0.10	6.0±0.2	2.0±0.15	2.50	5.60	3.20
MTSLF12555	12.50±0.30	5.50±0.30	3.00±0.10	8.60±0.30	2.0±0.15	2.50	8.60	3.20
MTSLF12565	12.50±0.30	6.50±0.30	3.00±0.10	8.60±0.30	2.0±0.15	2.50	8.60	3.20

Electrical Characteristics — MTSLF 6025

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTSLF6025-3R0☐	3.0±20%	1KHz	0.028	1.80
MTSLF6025-4R7☐	4.7±20%	1KHz	0.037	1.50
MTSLF6025-6R8☐	6.8±20%	1KHz	0.053	1.30
MTSLF6025-100☐	10±20%	1KHz	0.069	1.00
MTSLF6025-150☐	15±20%	1KHz	0.102	0.88
MTSLF6025-220☐	22±20%	1KHz	0.146	0.73
MTSLF6025-330☐	33±20%	1KHz	0.216	0.59
MTSLF6025-470☐	47±20%	1KHz	0.288	0.48
MTSLF6025-680☐	68±20%	1KHz	0.444	0.42
MTSLF6025-101☐	100±20%	1KHz	0.600	0.33

Electrical Characteristics — MTSLF 6028

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTSLF6028-3R0☐	3.0±20%	1KHz	0.0250	2.00
MTSLF6028-4R7☐	4.7±20%	1KHz	0.0284	1.60
MTSLF6028-6R8☐	6.8±20%	1KHz	0.0354	1.50
MTSLF6028-100☐	10±20%	1KHz	0.0532	1.30
MTSLF6028-150☐	15±20%	1KHz	0.0745	1.00
MTSLF6028-220☐	22±20%	1KHz	0.104	0.77
MTSLF6028-330☐	33±20%	1KHz	0.148	0.69
MTSLF6028-470☐	47±20%	1KHz	0.210	0.59
MTSLF6028-680☐	68±20%	1KHz	0.290	0.50
MTSLF6028-101☐	100±20%	1KHz	0.430	0.42

SMD Power Inductors
MTSLF Series

Electrical Characteristics — MTSLF 7028

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTSLF7028-3R3☐	3.3±20%	1KHz	0.037	1.60
MTSLF7028-4R7☐	4.7±20%	1KHz	0.045	1.50
MTSLF7028-6R8☐	6.8±20%	1KHz	0.059	1.30
MTSLF7028-100☐	10±20%	1KHz	0.083	1.00
MTSLF7028-150☐	15±20%	1KHz	0.130	0.88
MTSLF7028-220☐	22±20%	1KHz	0.180	0.75
MTSLF7028-330☐	33±20%	1KHz	0.240	0.65
MTSLF7028-470☐	47±20%	1KHz	0.340	0.54

☐ Tolerance：J = ± 5%，K = ± 10%，L = ± 15%，M = ± 20%，N = ± 30%

Electrical Characteristics — MTSLF 7030

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTSLF7030-2R2☐	2.2±20%	1KHz	0.016	2.10
MTSLF7030-2R7☐	2.7±20%	1KHz	0.018	1.95
MTSLF7030-3R3☐	3.3±20%	1KHz	0.023	1.80
MTSLF7030-4R7☐	4.7±20%	1KHz	0.036	1.60
MTSLF7030-5R6☐	5.6±20%	1KHz	0.038	1.55
MTSLF7030-6R8☐	6.8±20%	1KHz	0.041	1.50
MTSLF7030-8R2☐	8.2±20%	1KHz	0.046	1.40
MTSLF7030-100☐	10±20%	1KHz	0.053	1.30
MTSLF7030-120☐	12±20%	1KHz	0.065	1.15
MTSLF7030-150☐	15±20%	1KHz	0.084	1.00
MTSLF7030-180☐	18±20%	1KHz	0.095	0.92
MTSLF7030-220☐	22±20%	1KHz	0.110	0.86
MTSLF7030-270☐	27±20%	1KHz	0.140	0.73
MTSLF7030-330☐	33±20%	1KHz	0.160	0.65
MTSLF7030-470☐	47±20%	1KHz	0.240	0.57
MTSLF7030-680☐	68±20%	1KHz	0.310	0.49
MTSLF7030-101☐	100±20%	1KHz	0.450	0.35

☐ Tolerance：J = ± 5%，K = ± 10%，L = ± 15%，M = ± 20%，N = ± 30%

SMD Power Inductors
MTSLF Series

Electrical Characteristics — MTSLF 7032

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTSLF7032-1R6☐	1.6±20%	1KHz	0.014	2.40
MTSLF7032-2R2☐	2.2±20%	1KHz	0.016	2.20
MTSLF7032-2R7☐	2.7±20%	1KHz	0.019	2.00
MTSLF7032-3R3☐	3.3±20%	1KHz	0.023	1.90
MTSLF7032-4R7☐	4.7±20%	1KHz	0.036	1.70
MTSLF7032-5R6☐	5.6±20%	1KHz	0.039	1.65
MTSLF7032-6R8☐	6.8±20%	1KHz	0.041	1.60
MTSLF7032-8R2☐	8.2±20%	1KHz	0.048	1.50
MTSLF7032-100☐	10±20%	1KHz	0.053	1.40
MTSLF7032-120☐	12±20%	1KHz	0.066	1.25
MTSLF7032-150☐	15±20%	1KHz	0.075	1.10
MTSLF7032-180☐	18±20%	1KHz	0.098	1.02
MTSLF7032-220☐	22±20%	1KHz	0.110	0.96
MTSLF7032-270☐	27±20%	1KHz	0.130	0.86
MTSLF7032-330☐	33±20%	1KHz	0.16	0.75
MTSLF7032-470☐	47±20%	1KHz	0.24	0.67
MTSLF7032-680☐	68±20%	1KHz	0.31	0.59
MTSLF7032-101☐	100±20%	1KHz	0.45	0.45
MTSLF7032-151☐	150±20%	1KHz	0.65	0.37
MTSLF7032-221☐	220±20%	1KHz	1.05	0.29
MTSLF7032-331☐	330±20%	1KHz	1.67	0.22
MTSLF7032-471☐	470±20%	1KHz	2.05	0.20
MTSLF7032-681☐	680±20%	1KHz	3.15	0.16
MTSLF7032-102☐	1000±20%	1KHz	4.78	0.13

☐ Tolerance：J = ± 5%，K = ± 10%，L = ± 15%，M = ± 20%，N = ± 30%

SMD Power Inductors
MTSLF Series

Electrical Characteristics — MTSLF 7045

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTSLF7045-2R2☐	2.2±20%	1KHz	0.014	3.20
MTSLF7045-2R7☐	2.7±20%	1KHz	0.017	2.80
MTSLF7045-3R3☐	3.3±20%	1KHz	0.020	2.50
MTSLF7045-4R7☐	4.7±20%	1KHz	0.030	2.00
MTSLF7045-5R6☐	5.6±20%	1KHz	0.035	1.85
MTSLF7045-6R8☐	6.8±20%	1KHz	0.039	1.70
MTSLF7045-8R2☐	8.2±20%	1KHz	0.040	1.50
MTSLF7045-100☐	10±20%	1KHz	0.042	1.30
MTSLF7045-120☐	12±20%	1KHz	0.045	1.20
MTSLF7045-150☐	15±20%	1KHz	0.052	1.10
MTSLF7045-180☐	18±20%	1KHz	0.056	1.00
MTSLF7045-220☐	22±20%	1KHz	0.061	0.90
MTSLF7045-270☐	27±20%	1KHz	0.082	0.86
MTSLF7045-330☐	33±20%	1KHz	0.096	0.82
MTSLF7045-470☐	47±20%	1KHz	0.125	0.75
MTSLF7045-680☐	68±20%	1KHz	0.175	0.60
MTSLF7045-101☐	100±20%	1KHz	0.250	0.50
MTSLF7045-151☐	150±20%	1KHz	0.340	0.40
MTSLF7045-221☐	220±20%	1KHz	0.520	0.33
MTSLF7045-331☐	330±20%	1KHz	0.740	0.25
MTSLF7045-471☐	470±20%	1KHz	1.050	0.22
MTSLF7045-681☐	680±20%	1KHz	1.480	0.20
MTSLF7045-102☐	1000±20%	1KHz	2.280	0.14

☐ Tolerance：J = ± 5%，K = ± 10%，L = ± 15%，M = ± 20%，N = ± 30%

SMD Power Inductors
MTSLF Series

Electrical Characteristics — MTSLF 10145

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTSLF10145-100☐	10±20%	1KHz	0.0384	2.50
MTSLF10145-150☐	15±20%	1KHz	0.0472	2.20
MTSLF10145-220☐	22±20%	1KHz	0.0591	1.90
MTSLF10145-330☐	33±20%	1KHz	0.0815	1.60
MTSLF10145-470☐	47±20%	1KHz	0.1000	1.40
MTSLF10145-680☐	68±20%	1KHz	0.140	1.20
MTSLF10145-101☐	100±20%	1KHz	0.200	1.00
MTSLF10145-151☐	150±20%	1KHz	0.350	0.79
MTSLF10145-221☐	220±20%	1KHz	0.470	0.65
MTSLF10145-331☐	330±20%	1KHz	0.680	0.54
MTSLF10145-471☐	470±20%	1KHz	1.030	0.47
MTSLF10145-681☐	680±20%	1KHz	1.500	0.38
MTSLF10145-102☐	1000±20%	1KHz	2.800	0.29
MTSLF10145-152☐	1500±20%	1KHz	3.400	0.22

☐ Tolerance：J = ± 5%，K = ± 10%，L = ± 15%，M = ± 20%，N = ± 30%

Electrical Characteristics — MTSLF 10155

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTSLF10155-100☐	10±20%	1KHz	0.0243	3.50
MTSLF10155-330☐	33±20%	1KHz	0.0550	2.10

MAGNETIC TECHNOLOGY WORLDWIDE SDN BHD

KEENTECH ELECTRONICS CO. LTD

SMD Power Inductors
MTSLF Series

Electrical Characteristics — MTSLF 12555

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTSLF12555-2R0☐	2.0±20%	1KHz	0.0141	6.00
MTSLF12555-6R0☐	6.0±20%	1KHz	0.0164	3.60
MTSLF12555-100☐	10±20%	1KHz	0.0215	3.40
MTSLF12555-150☐	15±20%	1KHz	0.0259	2.80
MTSLF12555-220☐	22±20%	1KHz	0.0338	2.30
MTSLF12555-330☐	33±20%	1KHz	0.0415	1.90
MTSLF12555-470☐	47±20%	1KHz	0.0618	1.60
MTSLF12555-680☐	68±20%	1KHz	0.0832	1.30
MTSLF12555-101☐	100±20%	1KHz	0.117	1.10
MTSLF12555-151☐	150±20%	1KHz	0.190	0.88
MTSLF12555-221☐	220±20%	1KHz	0.270	0.72
MTSLF12555-331☐	330±20%	1KHz	0.410	0.59
MTSLF12555-471☐	470±20%	1KHz	0.520	0.49
MTSLF12555-681☐	680±20%	1KHz	0.760	0.43
MTSLF12555-102☐	1000±20%	1KHz	1.120	0.34
MTSLF12555-152☐	1500±20%	1KHz	1.730	0.29

Electrical Characteristics — MTSLF 12565

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTSLF12565-2R0☐	2.0±20%	1KHz	0.0117	6.20
MTSLF12565-4R2☐	4.2±20%	1KHz	0.0150	5.50
MTSLF12565-6R8☐	6.8±20%	1KHz	0.0190	5.00
MTSLF12565-100☐	10±20%	1KHz	0.0202	4.80
MTSLF12565-150☐	15±20%	1KHz	0.0237	4.20
MTSLF12565-220☐	22±20%	1KHz	0.0316	3.50
MTSLF12565-330☐	33±20%	1KHz	0.0406	2.80
MTSLF12565-470☐	47±20%	1KHz	0.0578	2.40
MTSLF12565-680☐	68±20%	1KHz	0.0787	2.00
MTSLF12565-101☐	100±20%	1KHz	0.123	1.60
MTSLF12565-221☐	220±20%	1KHz	0.273	1.00
MTSLF12565-102☐	1000±20%	1KHz	2.000	0.45

☐ Tolerance：J = ± 5%，K = ± 10%，L = ± 15%，M = ± 20%，N = ± 30%

MAGNETIC TECHNOLOGY WORLDWIDE SDN BHD

KEENTECH ELECTRONICS CO. LTD

SMD Power Inductors
MTSLF Series

Electrical Characteristics — MTSLF 12575

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTSLF12575-1R2☐	1.2±20%	1KHz	0.0069	8.2
MTSLF12575-2R7☐	2.7±20%	1KHz	0.0094	7.0
MTSLF12575-3R9☐	3.9±20%	1KHz	0.0104	6.7
MTSLF12575-5R6☐	5.6±20%	1KHz	0.0116	6.3
MTSLF12575-6R8☐	6.8±20%	1KHz	0.0131	5.9
MTSLF12575-100☐	10±20%	1KHz	0.0156	5.4
MTSLF12575-120☐	12±20%	1KHz	0.0150	5.0
MTSLF12575-150☐	15±20%	1KHz	0.0184	4.7
MTSLF12575-220☐	22±20%	1KHz	0.0263	4.0
MTSLF12575-330☐	33±20%	1KHz	0.0395	3.2
MTSLF12575-470☐	47±20%	1KHz	0.0528	2.7
MTSLF12575-680☐	68±20%	1KHz	0.0778	2.3
MTSLF12575-101☐	100±20%	1KHz	0.125	2.1
MTSLF12575-121☐	120±20%	1KHz	0.145	2.0
MTSLF12575-151☐	150±20%	1KHz	0.175	1.5
MTSLF12575-221☐	220±20%	1KHz	0.258	1.3
MTSLF12575-471☐	470±20%	1KHz	0.500	0.3

☐ Tolerance：J = ± 5%，K = ± 10%，L = ± 15%，M = ± 20%，N = ± 30%