

SLF Series

SMD Power Inductors

FEATURES

- Halogen Free products
- Shielded construction
- High current SMD Inductor
- High efficiency

APPLICATIONS

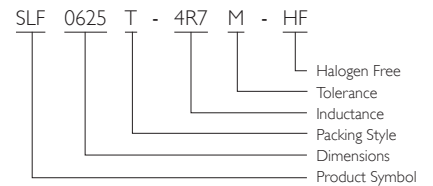
Handsets, personal computers, HDD, electronic devices

SHAPES AND DIMENSIONS

TYPE	A	B	C	D	E	F	a	b	c
SLF0625T	6 ± 0.2	6 ± 0.2	2.5 ± 0.2	2 ± 0.1	4.00	0.9	4.0	2.2	1.5
SLF0628T	6 ± 0.2	6 ± 0.2	2.8 ± 0.2	2 ± 0.1	4.0 typ	0.9	4.0	2.2	1.5
SLF0728T	7 ± 0.2	7 ± 0.2	2.8 ± 0.2	2 ± 0.1	4.9 typ	0.9	4.9	2.2	1.5
SLF0730T	7 ± 0.2	7 ± 0.2	3 ± 0.22	2 ± 0.1	4.9	0.9	4.9	2.2	1.5
SLF0732T	7 ± 0.2	7 ± 0.2	3.0 ± 0.2	2 ± 0.1	4.9 typ	0.9 typ	4.9	2.2	1.5
SLF0745T	7 ± 0.2	7 ± 0.2	4.5 ± 0.3	2 ± 0.1	4.9 typ	0.9 typ	4.9	2.2	1.5
SLF1045T	10.1 ± 0.3	10.1 ± 0.3	4.5 ± 0.3	3 ± 0.1	6 typ	2 typ	5.6	3.2	2.5
SLF1055T	10.1 ± 0.3	10.1 ± 0.3	5.5 ± 0.3	3 ± 0.1	6 ± 0.3	2 ± 0.15	5.6	3.2	2.5
SLF1255T	12.5 ± 0.3	12.5 ± 0.3	5.5 ± 0.3	3 ± 0.1	8.5 typ	2 typ	8.6	3.2	2.5
SLF1265T	12.5 ± 0.3	12.5 ± 0.3	6.5 ± 0.35	3 ± 0.1	8.5 typ	2 typ	8.6	3.2	2.5
SLF1275T	12.5 ± 0.3	12.5 ± 0.3	7.5 ± 0.35	3 ± 0.1	8.5 typ	2 typ	8.6	3.2	2.5

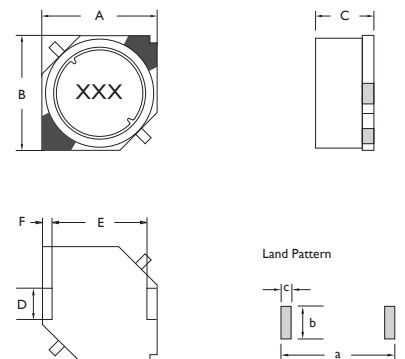


PRODUCT IDENTIFICATION



■ Tolerance: J = ±5%, K = ±10%, L = ±15%, M = ±20%, P = ±25%, N = ±30%, Y = min

Unit: mm





ELECTRICAL CHARACTERISTICS SLF0625T

PART NO.	INDUCTANCE (μH) $\pm 20\%$	TEST FREQUENCY (KHz/0.5V)	DC RESISTANCE (Ω) $\pm 20\%$	Isat (A) Max.	Irms (A) Typical
SLF0625T-4R7M	4.70	100	0.0306	1.50	1.80
SLF0625T-6R8M	6.80	100	0.0442	1.30	1.50
SLF0625T-100M	10.00	100	0.0573	1.00	1.30
SLF0625T-150M	15.00	100	0.0850	0.88	1.10
SLF0625T-220M	22.00	100	0.1220	0.73	0.94
SLF0625T-330M	33.00	100	0.1800	0.59	0.79
SLF0625T-470M	47.00	100	0.2400	0.48	0.67
SLF0625T-680M	68.00	100	0.3700	0.42	0.54
SLF0625T-101M	100.00	100	0.5000	0.33	0.47

ELECTRICAL CHARACTERISTICS SLF0628T

PART NO.	INDUCTANCE (μH) $\pm 20\%$	TEST FREQUENCY (KHz/0.5V)	DC RESISTANCE (Ω) $\pm 20\%$	Isat (A) Max.	Irms (A) Typical
SLF0628T-4R7M	4.70	100	0.0284	1.60	2.50
SLF0628T-6R8M	6.80	100	0.0354	1.50	2.20
SLF0628T-100M	10.00	100	0.0532	1.30	1.80
SLF0628T-150M	15.00	100	0.0745	1.00	1.40
SLF0628T-220M	22.00	100	0.1040	0.77	1.30
SLF0628T-330M	33.00	100	0.1480	0.69	1.10
SLF0628T-470M	47.00	100	0.2100	0.59	0.92
SLF0628T-680M	68.00	100	0.2900	0.50	0.78
SLF0628T-101M	100.00	100	0.4300	0.42	0.64

Note:

Isat: DC current at which the inductance drops 30% from its value without current

Irms: The actual current when temperature of coil becomes $\Delta T = 40\text{ }^\circ\text{C}$

ELECTRICAL CHARACTERISTICS SLF0728T

PART NO.	INDUCTANCE (μ H)	TOLERANCE (\pm %)	TEST FREQUENCY (KHz/0.5V)	DC RESISTANCE (Ω) \pm 20%	RATED CURRENT (A) Max.
SLF0728T-3R3M	3.30	20.0	100	0.0370	1.60
SLF0728T-4R7M	4.70	20.0	100	0.0450	1.50
SLF0728T-6R8M	6.80	20.0	100	0.0590	1.30
SLF0728T-100M	10.00	20.0	100	0.0830	1.10
SLF0728T-150M	15.00	20.0	100	0.1300	0.88
SLF0728T-220M	22.00	20.0	100	0.1800	0.75
SLF0728T-330M	33.00	20.0	100	0.2400	0.65
SLF0728T-470M	47.00	20.0	100	0.3400	0.54

ELECTRICAL CHARACTERISTICS SLF0730T

PART NO.	INDUCTANCE (μ H)	TOLERANCE (\pm %)	TEST FREQUENCY (KHz/0.5V)	DC RESISTANCE (Ω) \pm 20%	RATED CURRENT (A) Max.
SLF0730T-3R3M	3.30	20.0	100	0.023	1.80
SLF0730T-4R7M	4.70	20.0	100	0.036	1.60
SLF0730T-6R8M	6.80	20.0	100	0.041	1.50
SLF0730T-100M	10.00	20.0	100	0.053	1.30
SLF0730T-150M	15.00	20.0	100	0.084	1.00
SLF0730T-220M	22.00	20.0	100	0.110	0.86
SLF0730T-330M	33.00	20.0	100	0.160	0.65
SLF0730T-470M	47.00	20.0	100	0.240	0.57
SLF0730T-680M	68.00	20.0	100	0.310	0.49
SLF0730T-101M	100.00	20.0	100	0.450	0.35

Note:

Isat: DC current at which the inductance drops 30% from its value without current

Irms: The actual current when temperature of coil becomes $\Delta T = 40^\circ\text{C}$



ELECTRICAL CHARACTERISTICS SLF0732T

PART NO.	INDUCTANCE (μ H)	TOLERANCE (\pm %)	TEST FREQUENCY (KHz/0.5V)	DC RESISTANCE (Ω) \pm 20%	RATED CURRENT (A) Max.
SLF0732T-3R3M	3.30	20.0	100	0.023	1.90
SLF0732T-4R7M	4.70	20.0	100	0.036	1.70
SLF0732T-6R8M	6.80	20.0	100	0.041	1.60
SLF0732T-100M	10.00	20.0	100	0.053	1.40
SLF0732T-150M	15.00	20.0	100	0.075	1.10
SLF0732T-220M	22.00	20.0	100	0.110	0.96
SLF0732T-330M	33.00	20.0	100	0.160	0.75
SLF0732T-470M	47.00	20.0	100	0.240	0.67
SLF0732T-680M	68.00	20.0	100	0.310	0.59
SLF0732T-101M	100.00	20.0	100	0.450	0.45
SLF0732T-151M	150.00	20.0	100	0.650	0.37
SLF0732T-221M	220.00	20.0	100	1.050	0.29
SLF0732T-331M	330.00	20.0	100	1.670	0.22
SLF0732T-471M	470.00	20.0	100	2.050	0.20
SLF0732T-681M	680.00	20.0	100	3.150	0.16
SLF0732T-102M	1000.00	20.0	100	4.780	0.13

ELECTRICAL CHARACTERISTICS SLF0745T

PART NO.	INDUCTANCE (μ H) \pm 20%	TEST FREQUENCY (KHz/0.5V)	DC RESISTANCE (Ω) \pm 20%	I _{sat} (A) Max.	I _{rms} (A) Typical
SLF0745T-3R3M	3.30	100	0.020	2.50	2.30
SLF0745T-4R7M	4.70	100	0.030	2.00	2.10
SLF0745T-6R8M	6.80	100	0.039	1.70	1.74
SLF0745T-100M	10.00	100	0.036	1.30	1.78
SLF0745T-150M	15.00	100	0.052	1.10	1.53
SLF0745T-220M	22.00	100	0.061	0.90	1.34
SLF0745T-330M	33.00	100	0.096	0.82	1.09
SLF0745T-470M	47.00	100	0.125	0.75	0.92
SLF0745T-680M	68.00	100	0.175	0.60	0.77
SLF0745T-101M	100.00	100	0.250	0.50	0.65
SLF0745T-151M	150.00	100	0.340	0.40	0.55
SLF0745T-221M	220.00	100	0.520	0.33	0.45
SLF0745T-331M	330.00	100	0.740	0.25	0.37
SLF0745T-471M	470.00	100	1.050	0.22	0.31
SLF0745T-681M	680.00	100	1.480	0.20	0.27
SLF0745T-102M	1000.00	100	2.280	0.14	0.25

Note:

I_{sat}: DC current at which the inductance drops 30% from its value without current

I_{rms}: The actual current when temperature of coil becomes $\Delta T = 40\text{ }^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS SLFI045T

PART NO.	INDUCTANCE (μ H)	TEST FREQUENCY (KHz/0.5V)	DC RESISTANCE (Ω) $\pm 20\%$	Isat (A) Max.	Irms (A) Typical
SLFI045T-3R3N	3.30 $\pm 30\%$	I	0.0161	4.90	3.70
SLFI045T-5R6M	5.60 $\pm 20\%$	I	0.0220	3.80	3.20
SLFI045T-100M	10.00 $\pm 20\%$	I	0.0364	3.00	2.50
SLFI045T-150M	15.00 $\pm 20\%$	I	0.0472	2.40	2.20
SLFI045T-220M	22.00 $\pm 20\%$	I	0.0591	2.10	1.90
SLFI045T-330M	33.00 $\pm 20\%$	I	0.0815	1.60	1.70
SLFI045T-470M	47.00 $\pm 20\%$	I	0.1000	1.40	1.50
SLFI045T-680M	68.00 $\pm 20\%$	I	0.1400	1.20	1.30
SLFI045T-101M	100.00 $\pm 20\%$	I	0.2000	1.00	1.10
SLFI045T-151M	150.00 $\pm 20\%$	I	0.3500	0.79	0.81
SLFI045T-221M	220.00 $\pm 20\%$	I	0.4700	0.65	0.70
SLFI045T-331M	330.00 $\pm 20\%$	I	0.6800	0.54	0.58
SLFI045T-471M	470.00 $\pm 20\%$	I	1.0300	0.47	0.47
SLFI045T-681M	680.00 $\pm 20\%$	I	1.6000	0.38	0.38
SLFI045T-102M	1000.00 $\pm 20\%$	I	2.8000	0.32	0.29
SLFI045T-152M	1500.00 $\pm 20\%$	I	3.4000	0.22	0.26

ELECTRICAL CHARACTERISTICS SLFI055T

PART NO.	INDUCTANCE (μ H) $\pm 20\%$	TEST FREQUENCY (KHz/1V)	DC RESISTANCE (m Ω) $\pm 20\%$	Isat (A) Max.	Irms (A) Typical
SLFI055T-4R7M	4.70	I	11.50	5.20	5.20
SLFI055T-6R8M	6.80	I	14.60	4.20	4.20
SLFI055T-100M	10.00	I	17.40	3.50	4.00
SLFI055T-220M	22.00	I	35.70	2.50	3.00
SLFI055T-330M	33.00	I	51.50	2.10	2.30

Note:

Isat: DC current at which the inductance drops 30% from its value without current

Irms: The actual current when temperature of coil becomes $\Delta T = 40\text{ }^\circ\text{C}$



ELECTRICAL CHARACTERISTICS SLFI255T

PART NO.	INDUCTANCE (μ H)	TEST FREQUENCY (KHz/0.5V)	DC RESISTANCE (Ω) $\pm 20\%$	Isat (A) Max.	Irms (A) Typical
SLFI255T-6R0N	6.00 $\pm 30\%$	I	0.0164	3.60	4.90
SLFI255T-100M	10.00 $\pm 20\%$	I	0.0215	3.40	4.30
SLFI255T-150M	15.00 $\pm 20\%$	I	0.0259	2.80	3.90
SLFI255T-220M	22.00 $\pm 20\%$	I	0.0338	2.30	3.40
SLFI255T-330M	33.00 $\pm 20\%$	I	0.0415	1.90	3.10
SLFI255T-470M	47.00 $\pm 20\%$	I	0.0618	1.60	2.50
SLFI255T-680M	68.00 $\pm 20\%$	I	0.0832	1.30	2.20
SLFI255T-101M	100.00 $\pm 20\%$	I	0.1170	1.10	1.80
SLFI255T-151M	150.00 $\pm 20\%$	I	0.1900	0.88	1.40
SLFI255T-221M	220.00 $\pm 20\%$	I	0.2700	0.72	1.20
SLFI255T-331M	330.00 $\pm 20\%$	I	0.4100	0.59	1.00
SLFI255T-471M	470.00 $\pm 20\%$	I	0.5200	0.49	0.88
SLFI255T-681M	680.00 $\pm 20\%$	I	0.7600	0.43	0.73
SLFI255T-102M	1000.00 $\pm 20\%$	I	1.1200	0.34	0.60
SLFI255T-152M	1500.00 $\pm 20\%$	I	1.7300	0.29	0.48

ELECTRICAL CHARACTERISTICS SLFI265T

PART NO.	INDUCTANCE (μ H)	TEST FREQUENCY (KHz/0.5V)	DC RESISTANCE (Ω) $\pm 20\%$	Isat (A) Max.	Irms (A) Typical
SLFI265T-4R2N	4.20 $\pm 30\%$	I	0.0150	7.30	5.50
SLFI265T-7R0N	7.00 $\pm 30\%$	I	0.0177	5.70	5.00
SLFI265T-100M	10.00 $\pm 20\%$	I	0.0202	5.00	4.80
SLFI265T-150M	15.00 $\pm 20\%$	I	0.0237	4.20	4.40
SLFI265T-220M	22.00 $\pm 20\%$	I	0.0316	3.50	3.80
SLFI265T-330M	33.00 $\pm 20\%$	I	0.0406	2.80	3.40
SLFI265T-470M	47.00 $\pm 20\%$	I	0.0578	2.40	2.80
SLFI265T-680M	68.00 $\pm 20\%$	I	0.0787	2.00	2.40
SLFI265T-221M	220.00 $\pm 20\%$	I	0.2730	1.00	1.20

Note:

Isat: DC current at which the inductance drops 30% from its value without current

Irms: The actual current when temperature of coil becomes $\Delta T = 40\text{ }^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS SLFI275T

PART NO.	INDUCTANCE (μH) $\pm 20\%$	TEST FREQUENCY (KHz/0.5V)	DC RESISTANCE (Ω) $\pm 20\%$	Isat (A) Max.	Irms (A) Typical
SLFI275T-1R2M	1.20	1	0.0069	13.00	8.20
SLFI275T-2R7M	2.70	1	0.0094	10.00	7.00
SLFI275T-3R9M	3.90	1	0.0104	9.00	6.70
SLFI275T-5R6M	5.60	1	0.0116	7.80	6.30
SLFI275T-6R8M	6.80	1	0.0131	7.20	5.90
SLFI275T-100M	10.00	1	0.0156	5.50	5.40
SLFI275T-150M	15.00	1	0.0184	4.70	5.00
SLFI275T-220M	22.00	1	0.0263	4.00	4.00
SLFI275T-330M	33.00	1	0.0395	3.20	3.40
SLFI275T-470M	47.00	1	0.0528	2.70	3.00
SLFI275T-680M	68.00	1	0.0778	2.00	2.40
SLFI275T-101M	100.00	1	0.1250	1.90	1.90
SLFI275T-151M	150.00	1	0.1750	1.50	1.60
SLFI275T-221M	220.00	1	0.2580	1.30	1.30

Note:

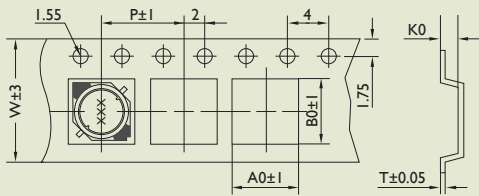
Isat: DC current at which the inductance drops 30% from its value without current

Irms: The actual current when temperature of coil becomes $\Delta T = 40\text{ }^\circ\text{C}$



TAPE DIMENSIONS

Unit: mm



TYPE	A0	B0	K0	P	W	T
SLF0625T	6.2	6.2	2.7	12	16	0.4
SLF0628T	6.2	6.2	3.0	12	16	0.4
SLF0728T	7.2	7.2	3.0	12	16	0.4
SLF0730T	7.2	7.2	3.2	12	16	0.4
SLF0732T	7.2	7.2	3.2	12	16	0.4
SLF0745T	7.2	7.2	4.8	12	16	0.4
SLFI045T	10.4	10.4	4.8	16	24	0.4
SLFI055T	10.4	10.4	5.8	16	24	0.4
SLFI255T	12.8	12.8	5.8	16	24	0.4
SLFI265T	12.8	12.8	6.8	16	24	0.4
SLFI275T	12.8	12.8	7.8	16	24	0.4

PACKAGING QUANTITY

TYPE	BULK	QUANTITY/REEL	CASKET/REEL	CASKET	QUANTITY/BOX
SLF0625T	v	1000	3.0	5.0	15000
SLF0628T	v	1000	3.0	5.0	15000
SLF0728T	v	1000	3.0	5.0	15000
SLF0730T	v	1000	3.0	5.0	15000
SLF0732T	v	1000	3.0	5.0	15000
SLF0745T	v	1000	3.0	5.0	15000
SLFI045T	v	500	3.0	5.0	7500
SLFI055T	v	500	3.0	5.0	7500
SLFI255T	v	500	3.0	5.0	7500
SLFI265T	v	500	3.0	5.0	7500
SLFI275T	v	500	3.0	5.0	7500