

# SL Series

## DIP Power Inductors

### FEATURES

Halogen Free products

Unshield construction

DIP drum Inductor

### APPLICATIONS

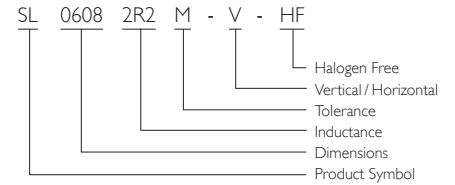
Notebook, Inkjet printer, Copy machine, Display monitor, Cellular phone, ADSL modem, Game machine, TV, Video tape recorder, Video camera, Microwave, Lighting and Car electronics.

### SHAPES AND DIMENSIONS

TYPE	A	B	C	D	E	a	b
SL0608	6.7 max	10.5 max	4.0 ± 1.2	3.0 ± 0.5	0.65	1.0 ± 0.05	3.0 ± 0.1
SL1012	10.0 ± 0.5	15.0 max	4.0 +1.5/-1.0	5.0 ± 0.5	0.8	1.2 ± 0.05	5.0 ± 0.1
SL1112	11.5 max	13.0 max	4.5 ± 1.0	9.0 ± 0.1	-	1.5 ± 0.05	9.0 ± 0.1

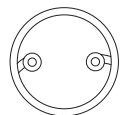
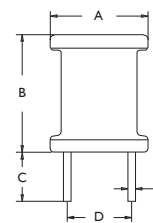


### PRODUCT IDENTIFICATION



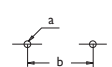
■ Tolerance: J = ±5%, K = ±10%, L = ±15%, M = ±20%, P = ±25%, N = ±30%, Y = min

Unit: mm



Connection Schematic

Land Pattern





## ELECTRICAL CHARACTERISTICS SL0608

PART NO.	INDUCTANCE ( $\mu$ H)	TOLERANCE ( $\pm$ %)	TEST FREQUENCY (KHz)	DC RESISTANCE ( $\Omega$ ) Max.	IDC (A)
SL0608-2R2	2.20	20.0	10	0.026 $\pm$ 30%	3.40
SL0608-2R7	2.70	20.0	10	0.028 $\pm$ 30%	3.20
SL0608-3R3	3.30	20.0	10	0.027 $\pm$ 30%	3.00
SL0608-3R9	3.90	20.0	10	0.030 $\pm$ 30%	2.80
SL0608-4R7	4.70	20.0	10	0.033 $\pm$ 30%	2.60
SL0608-5R6	5.60	20.0	10	0.035 $\pm$ 30%	2.40
SL0608-6R8	6.80	20.0	10	0.041 $\pm$ 20%	2.00
SL0608-8R2	8.20	20.0	10	0.048 $\pm$ 20%	1.80
SL0608-100	10.00	20.0	10	0.052 $\pm$ 20%	1.70
SL0608-120	12.00	20.0	10	0.054 $\pm$ 20%	1.65
SL0608-150	15.00	20.0	10	0.059 $\pm$ 20%	1.50
SL0608-180	18.00	20.0	10	0.065 $\pm$ 20%	1.25
SL0608-220	22.00	10.0	10	0.076 $\pm$ 20%	1.20
SL0608-270	27.00	10.0	10	0.083 $\pm$ 20%	0.95
SL0608-330	33.00	10.0	10	0.100 $\pm$ 20%	0.90
SL0608-390	39.00	10.0	10	0.105 $\pm$ 20%	0.85
SL0608-470	47.00	10.0	10	0.120 $\pm$ 20%	0.80
SL0608-560	56.00	10.0	10	0.140 $\pm$ 20%	0.75
SL0608-680	68.00	10.0	10	0.150 $\pm$ 20%	0.70
SL0608-820	82.00	10.0	10	0.210 $\pm$ 20%	0.55
SL0608-101	100.00	10.0	10	0.230 $\pm$ 20%	0.50
SL0608-121	120.00	10.0	10	0.260 $\pm$ 20%	0.49
SL0608-151	150.00	10.0	10	0.370 $\pm$ 20%	0.45
SL0608-181	180.00	10.0	10	0.420 $\pm$ 20%	0.40
SL0608-221	220.00	10.0	10	0.550 $\pm$ 20%	0.36
SL0608-271	270.00	10.0	10	0.650 $\pm$ 20%	0.35
SL0608-331	330.00	10.0	10	0.740 $\pm$ 20%	0.30
SL0608-391	390.00	10.0	10	0.950 $\pm$ 20%	0.27
SL0608-471	470.00	10.0	10	1.080 $\pm$ 20%	0.24
SL0608-561	560.00	10.0	10	1.220 $\pm$ 20%	0.22
SL0608-681	680.00	10.0	10	1.590 $\pm$ 20%	0.21
SL0608-821	820.00	10.0	10	1.760 $\pm$ 20%	0.18
SL0608-102	1000.00	10.0	10	2.490 $\pm$ 20%	0.16
SL0608-122	1200.00	10.0	10	2.760 $\pm$ 20%	0.15
SL0608-152	1500.00	10.0	10	3.240 $\pm$ 20%	0.13
SL0608-182	1800.00	10.0	10	4.560 $\pm$ 20%	0.12
SL0608-222	2200.00	10.0	10	5.180 $\pm$ 20%	0.11
SL0608-272	2700.00	10.0	10	6.080 $\pm$ 20%	0.10
SL0608-332	3300.00	10.0	10	8.800 $\pm$ 20%	0.10
SL0608-392	3900.00	10.0	10	9.470 $\pm$ 20%	0.80
SL0608-472	4700.00	10.0	10	10.900 $\pm$ 20%	0.08
SL0608-562	5600.00	10.0	10	12.300 $\pm$ 20%	0.07

Note:

I<sub>sat</sub>: DC current at which the inductance drops 10% from its value without current

I<sub>rms</sub>: The actual current when temperature of coil becomes  $\Delta T = 45^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS SLI012

PART NO.	INDUCTANCE ( $\mu$ H)	TOLERANCE ( $\pm$ %)	TEST FREQUENCY (KHz)	DC RESISTANCE ( $\Omega$ ) $\pm$ 20%	IDC (A)
SLI012-2R2	2.20	20.0	10	0.014	5.90
SLI012-2R7	2.70	20.0	10	0.015	5.50
SLI012-3R3	3.30	20.0	10	0.016	5.20
SLI012-3R9	3.90	20.0	10	0.018	4.80
SLI012-4R7	4.70	20.0	10	0.019	4.60
SLI012-5R6	5.60	20.0	10	0.021	4.30
SLI012-6R8	6.80	20.0	10	0.022	4.20
SLI012-8R2	8.20	20.0	10	0.024	4.00
SLI012-100	10.00	20.0	10	0.026	3.90
SLI012-120	12.00	20.0	10	0.028	3.80
SLI012-150	15.00	20.0	10	0.033	3.50
SLI012-180	18.00	20.0	10	0.036	3.40
SLI012-220	22.00	10.0	10	0.040	3.20
SLI012-270	27.00	10.0	10	0.044	3.00
SLI012-330	33.00	10.0	10	0.051	2.80
SLI012-390	39.00	10.0	10	0.054	2.70
SLI012-470	47.00	10.0	10	0.060	2.50
SLI012-560	56.00	10.0	10	0.067	2.30
SLI012-680	68.00	10.0	10	0.075	2.10
SLI012-820	82.00	10.0	10	0.095	1.80
SLI012-101	100.00	10.0	10	0.110	1.70
SLI012-121	120.00	10.0	10	0.120	1.60
SLI012-151	150.00	10.0	10	0.160	1.40
SLI012-181	180.00	10.0	10	0.180	1.30
SLI012-221	220.00	10.0	10	0.210	1.10
SLI012-271	270.00	10.0	10	0.280	1.00
SLI012-331	330.00	10.0	10	0.320	0.90
SLI012-391	390.00	10.0	10	0.400	0.80
SLI012-471	470.00	10.0	10	0.450	0.70
SLI012-561	560.00	10.0	10	0.560	0.68
SLI012-681	680.00	10.0	10	0.660	0.64
SLI012-821	820.00	10.0	10	0.800	0.55
SLI012-102	1000.00	10.0	10	1.000	0.50
SLI012-122	1200.00	10.0	10	1.200	0.45
SLI012-152	1500.00	10.0	10	1.500	0.42
SLI012-182	1800.00	10.0	10	1.800	0.40
SLI012-222	2200.00	10.0	10	2.100	0.36
SLI012-272	2700.00	10.0	10	2.700	0.32
SLI012-332	3300.00	10.0	10	3.200	0.28
SLI012-392	3900.00	10.0	10	3.500	0.26

Note:

Isat: DC current at which the inductance drops 10% from its value without current

Irms: The actual current when temperature of coil becomes  $\Delta T = 45^\circ\text{C}$



## ELECTRICAL CHARACTERISTICS SL1112

PART NO.	INDUCTANCE ( $\mu$ H)	TOLERANCE ( $\pm$ %)	TEST FREQUENCY (KHz)	DC RESISTANCE ( $\Omega$ ) $\pm$ 20%	IDC (A)
SL1112-R35	0.35	20.0	10	0.0014	14.00
SL1112-R60	0.60	20.0	10	0.0018	13.00
SL1112-1R0	1.00	20.0	10	0.0023	12.00
SL1112-1R4	1.40	20.0	10	0.0028	11.00
SL1112-1R8	1.80	20.0	10	0.0033	10.00
SL1112-2R4	2.40	20.0	10	0.0038	9.60
SL1112-3R0	3.00	20.0	10	0.0044	9.20
SL1112-3R9	3.90	20.0	10	0.0049	8.60
SL1112-4R7	4.70	20.0	10	0.0055	8.20
SL1112-5R6	5.60	20.0	10	0.0061	7.80
SL1112-6R8	6.80	20.0	10	0.0087	7.40
SL1112-7R8	7.80	20.0	10	0.0094	7.00
SL1112-9R1	9.10	20.0	10	0.0124	6.60
SL1112-100	10.00	20.0	10	0.0132	6.30
SL1112-120	12.00	20.0	10	0.0140	6.00

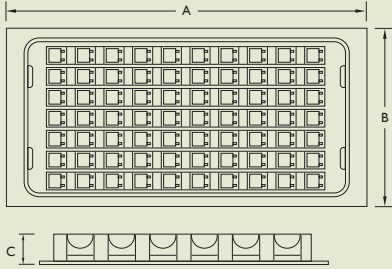
Note:

Isat: DC current at which the inductance drops 10% from its value without current

Irms: The actual current when temperature of coil becomes  $\Delta T = 45\text{ }^{\circ}\text{C}$

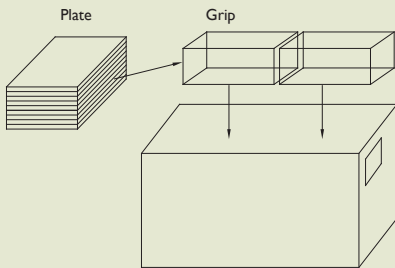
## PLATE DIMENSIONS

Unit: mm



TYPE	A	B	C
SL0608	251	138	7.0
SL1012	251	138	13.0
SL1112	251	138	12.0

## PACKAGING QUANTITY



TYPE	BULK	QTY/PLATE	PLATE/GRIP	GRIP	BOX
SL0608	v	150	15	2	4500
SL1012	v	77	8	2	1232
SL1112	v	42	9	2	756