

## SMD Type Shielded Power Inductors

### ◆ Features

1. Excellent solderability and high heat resistance.
2. Low cost and packed in embossed carrier tape.
3. The products contain no lead and also support lead-free soldering.



### ◆ Applications

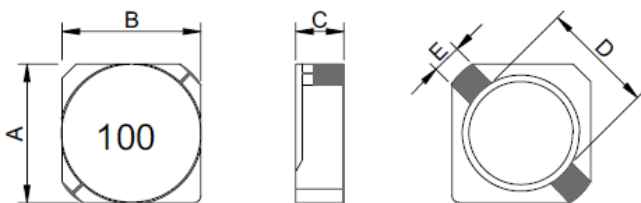
Ideal use in notebook, hard disk and other electronic equipment.

### ◆ Lead Free Part Numbering

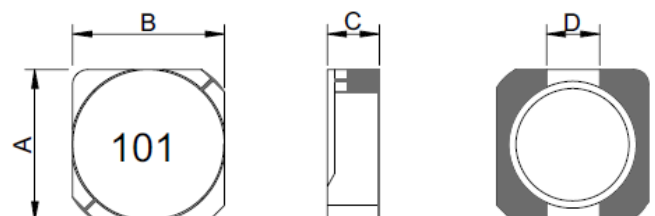
<b>SLS</b>	<b>4D18</b>	<b>S</b>	<b>100</b>	<b>M</b>	<b>T</b>	<b>T</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series Type
- (2) Dimension: A X C
- (3) Material Code
- (4) Inductance: 2R2=2.2 $\mu$ H ;  
100=10 $\mu$ H; 101=100 $\mu$ H
- (5) Inductance Tolerance: M= $\pm$ 20%, N= $\pm$ 30%
- (6) Company Code
- (7) Packaging : packed in embossed carrier

### ◆ Dimensions



**SLS-2D/3D Series**



**SLS-4D/5D/6D Series**

## ◆ Dimensions

Chip size					
Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SLS2D11	3.2 max.	3.2 max.	1.3 max.	2.1 typ.	1.0 typ.
SLS2D14	3.2 max.	3.2 max.	1.6 max.	2.1 typ.	1.0 typ.
SLS2D18	3.2 max.	3.2 max.	2.0 max.	2.1 typ.	1.0 typ.
SLS3D16	4.0 max.	4.0 max.	1.9 max.	2.8 typ.	1.1 typ.
SLS3D28	4.0 max.	4.0 max.	3.0 max.	2.8 typ.	1.1 typ.
SLS4D18	5.0 max.	5.0 max.	2.0 max.	1.5 typ.	-
SLS4D28	5.0 max.	5.0 max.	3.0 max.	1.5 typ.	-
SLS5D18	6.0 max.	6.0 max.	2.0 max.	2.0 typ.	-
SLS5D28	6.0 max.	6.0 max.	3.0 max.	2.0 typ.	-
SLS6D28	7.0 max.	7.0 max.	3.0 max.	2.0 typ.	-
SLS6D38	7.0 max.	7.0 max.	4.0 max.	2.0 typ.	-

## ◆ Specification

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR (Ω) max.	Rated Current (A) typ.
<b>SLS2D11 Series</b>				
SLS2D11S1R5NTT	1.5±30%	0.1V/100K	0.068	0.90
SLS2D11S2R2NTT	2.2±30%	0.1V/100K	0.098	0.78
SLS2D11S3R3NTT	3.3±30%	0.1V/100K	0.123	0.60
SLS2D11S4R7NTT	4.7±30%	0.1V/100K	0.170	0.50
SLS2D11S6R8NTT	6.8±30%	0.1V/100K	0.260	0.44
SLS2D11S100MTT	10.0±20%	0.1V/100K	0.400	0.35
<b>SLS2D14 Series</b>				
SLS2D14S1R5NTT	1.5±30%	0.1V/100K	0.063	1.80
SLS2D14S1R8NTT	1.8±30%	0.1V/100K	0.075	1.65
SLS2D14S2R2NTT	2.2±30%	0.1V/100K	0.094	1.50
SLS2D14S2R7NTT	2.7±30%	0.1V/100K	0.106	1.35
SLS2D14S3R3NTT	3.3±30%	0.1V/100K	0.125	1.20
SLS2D14S3R9NTT	3.9±30%	0.1V/100K	0.138	1.10
SLS2D14S4R7NTT	4.7±30%	0.1V/100K	0.169	1.00
SLS2D14S5R6NTT	5.6±30%	0.1V/100K	0.188	0.95
SLS2D14S6R8NTT	6.8±30%	0.1V/100K	0.213	0.85
SLS2D14S100MTT	10.0±20%	0.1V/100K	0.294	0.70

## ◆ Specification

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR (Ω) max.	I sat (A) max.
<b>SLS2D18 Series</b>				
SLS2D18S2R2NTT	2.2±30%	0.1V/100K	0.041	0.85
SLS2D18S3R3NTT	3.3±30%	0.1V/100K	0.054	0.75
SLS2D18S4R7NTT	4.7±30%	0.1V/100K	0.078	0.63
SLS2D18S6R8NTT	6.8±30%	0.1V/100K	0.106	0.52
SLS2D18S100MTT	10.0±20%	0.1V/100K	0.180	0.43
SLS2D18S150MTT	15.0±20%	0.1V/100K	0.220	0.35
SLS2D18S220MTT	22.0±20%	0.1V/100K	0.320	0.30
SLS2D18S330MTT	33.0±20%	0.1V/100K	0.460	0.24
SLS2D18S470MTT	47.0±20%	0.1V/100K	0.660	0.20
<b>SLS3D16 Series</b>				
SLS3D16S2R2NTT	2.2±30%	0.1V/100K	0.060	1.00
SLS3D16S3R3NTT	3.3±30%	0.1V/100K	0.066	0.80
SLS3D16S3R9NTT	3.9±30%	0.1V/100K	0.081	0.75
SLS3D16S4R7NTT	4.7±30%	0.1V/100K	0.091	0.68
SLS3D16S5R6NTT	5.6±30%	0.1V/100K	0.102	0.62
SLS3D16S6R8NTT	6.8±30%	0.1V/100K	0.130	0.58
SLS3D16S8R2NTT	8.2±30%	0.1V/100K	0.140	0.51
SLS3D16S100MTT	10±20%	0.1V/100K	0.190	0.46
SLS3D16S120MTT	12±20%	0.1V/100K	0.205	0.42
SLS3D16S150MTT	15±20%	0.1V/100K	0.272	0.38
SLS3D16S180MTT	18±20%	0.1V/100K	0.327	0.34
SLS3D16S220MTT	22±20%	0.1V/100K	0.356	0.31
SLS3D16S270MTT	27±20%	0.1V/100K	0.470	0.28
SLS3D16S330MTT	33±20%	0.1V/100K	0.560	0.26
SLS3D16S390MTT	39±20%	0.1V/100K	0.700	0.24
SLS3D16S470MTT	47±20%	0.1V/100K	0.775	0.21
<b>SLS3D28 Series</b>				
SLS3D28S3R3NTT	3.3±30%	0.1V/100K	0.036	0.90
SLS3D28S4R7NTT	4.7±30%	0.1V/100K	0.046	0.80
SLS3D28S6R8NTT	6.8±30%	0.1V/100K	0.055	0.60
SLS3D28S100MTT	10.0±20%	0.1V/100K	0.075	0.48
SLS3D28S150MTT	15.0±20%	0.1V/100K	0.117	0.42
SLS3D28S220MTT	22.0±20%	0.1V/100K	0.157	0.36
SLS3D28S330MTT	33.0±20%	0.1V/100K	0.218	0.30
SLS3D28S470MTT	47.0±20%	0.1V/100K	0.301	0.28

◆ **Specification**

Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DCR ( $\Omega$ ) max.	Rated Current (A) typ.
<b>SLS4D18 Series</b>				
SLS4D18S1R0NTT	1.0 $\pm$ 30%	0.1V/100K	0.045	1.72
SLS4D18S2R2NTT	2.2 $\pm$ 30%	0.1V/100K	0.075	1.32
SLS4D18S2R7NTT	2.7 $\pm$ 30%	0.1V/100K	0.105	1.28
SLS4D18S3R3NTT	3.3 $\pm$ 30%	0.1V/100K	0.11	1.04
SLS4D18S3R9NTT	3.9 $\pm$ 30%	0.1V/100K	0.155	0.88
SLS4D18S4R7NTT	4.7 $\pm$ 30%	0.1V/100K	0.162	0.84
SLS4D18S5R6NTT	5.6 $\pm$ 30%	0.1V/100K	0.170	0.80
SLS4D18S6R8NTT	6.8 $\pm$ 30%	0.1V/100K	0.200	0.76
SLS4D18S8R2NTT	8.2 $\pm$ 30%	0.1V/100K	0.245	0.68
SLS4D18S100MTT	10 $\pm$ 20%	0.1V/100K	0.200	0.61
SLS4D18S120MTT	12 $\pm$ 20%	0.1V/100K	0.210	0.56
SLS4D18S150MTT	15 $\pm$ 20%	0.1V/100K	0.240	0.50
SLS4D18S180MTT	18 $\pm$ 20%	0.1V/100K	0.338	0.48
SLS4D18S220MTT	22 $\pm$ 20%	0.1V/100K	0.397	0.41
SLS4D18S270MTT	27 $\pm$ 20%	0.1V/100K	0.441	0.35
SLS4D18S330MTT	33 $\pm$ 20%	0.1V/100K	0.694	0.32
SLS4D18S390MTT	39 $\pm$ 20%	0.1V/100K	0.709	0.30
SLS4D18S470MTT	47 $\pm$ 20%	0.1V/100K	0.922	0.28
SLS4D18S560MTT	56 $\pm$ 20%	0.1V/100K	1.080	0.26
SLS4D18S680MTT	68 $\pm$ 20%	0.1V/100K	1.300	0.24
SLS4D18S820MTT	82 $\pm$ 20%	0.1V/100K	1.550	0.22
SLS4D18S101MTT	100 $\pm$ 20%	0.1V/100K	1.730	0.20

## ◆ Specification

Part Number	Inductance ( $\mu\text{H}$ )	Test Frequency (Hz)	DCR ( $\Omega$ ) max.	Rated Current (A) typ.
<b>SLS4D28 Series</b>				
SLS4D28S1R2NTT	1.2 $\pm$ 30%	0.1V/100K	0.024	2.56
SLS4D28S1R8NTT	1.8 $\pm$ 30%	0.1V/100K	0.028	2.20
SLS4D28S2R2NTT	2.2 $\pm$ 30%	0.1V/100K	0.031	2.04
SLS4D28S2R7NTT	2.7 $\pm$ 30%	0.1V/100K	0.043	1.60
SLS4D28S3R3NTT	3.3 $\pm$ 30%	0.1V/100K	0.049	1.57
SLS4D28S3R9NTT	3.9 $\pm$ 30%	0.1V/100K	0.065	1.44
SLS4D28S4R7NTT	4.7 $\pm$ 30%	0.1V/100K	0.072	1.32
SLS4D28S5R6NTT	5.6 $\pm$ 30%	0.1V/100K	0.101	1.17
SLS4D28S6R8NTT	6.8 $\pm$ 30%	0.1V/100K	0.109	1.12
SLS4D28S8R2NTT	8.2 $\pm$ 30%	0.1V/100K	0.118	1.04
SLS4D28S100MTT	10 $\pm$ 20%	0.1V/100K	0.128	1.00
SLS4D28S120MTT	12 $\pm$ 20%	0.1V/100K	0.132	0.84
SLS4D28S150MTT	15 $\pm$ 20%	0.1V/100K	0.149	0.76
SLS4D28S180MTT	18 $\pm$ 20%	0.1V/100K	0.166	0.72
SLS4D28S220MTT	22 $\pm$ 20%	0.1V/100K	0.235	0.70
SLS4D28S270MTT	27 $\pm$ 20%	0.1V/100K	0.261	0.58
SLS4D28S330MTT	33 $\pm$ 20%	0.1V/100K	0.378	0.56
SLS4D28S470MTT	47 $\pm$ 20%	0.1V/100K	0.384	0.50
SLS4D28S680MTT	68 $\pm$ 20%	0.1V/100K	0.699	0.35
SLS4D28S820MTT	82 $\pm$ 20%	0.1V/100K	0.915	0.32
SLS4D28S101MTT	100 $\pm$ 20%	0.1V/100K	1.020	0.29
SLS4D28S121MTT	120 $\pm$ 20%	0.1V/100K	1.270	0.27
SLS4D28S151MTT	150 $\pm$ 20%	0.1V/100K	1.350	0.24
SLS4D28S181MTT	180 $\pm$ 20%	0.1V/100K	1.540	0.22
SLS4D28S221MTT	220 $\pm$ 20%	0.1V/100K	1.720	0.20
SLS4D28S271MTT	270 $\pm$ 20%	0.1V/100K	1.950	0.16
SLS4D28S331MTT	330 $\pm$ 20%	0.1V/100K	2.660	0.14
SLS4D28S391MTT	390 $\pm$ 20%	0.1V/100K	2.830	0.13
<b>SLS5D18 Series</b>				
SLS5D18S2R2NTT	2.2 $\pm$ 30%	0.1V/10K	0.039	2.40
SLS5D18S3R3NTT	3.3 $\pm$ 30%	0.1V/10K	0.048	1.90
SLS5D18S4R7NTT	6.2 $\pm$ 30%	0.1V/10K	0.068	1.70
SLS5D18S6R8NTT	6.8 $\pm$ 30%	0.1V/10K	0.102	1.40
SLS5D18S100MTT	10.0 $\pm$ 20%	0.1V/10K	0.124	1.20
SLS5D18S120MTT	12.0 $\pm$ 20%	0.1V/10K	0.153	1.10
SLS5D18S150MTT	15.0 $\pm$ 20%	0.1V/10K	0.196	0.97
SLS5D18S180MTT	18.0 $\pm$ 20%	0.1V/10K	0.210	0.85
SLS5D18S220MTT	22.0 $\pm$ 20%	0.1V/10K	0.290	0.80
SLS5D18S270MTT	27.0 $\pm$ 20%	0.1V/10K	0.330	0.75
SLS5D18S330MTT	33.0 $\pm$ 20%	0.1V/10K	0.386	0.65
SLS5D18S390MTT	39.0 $\pm$ 20%	0.1V/10K	0.520	0.57
SLS5D18S470MTT	47.0 $\pm$ 20%	0.1V/10K	0.595	0.54

## ◆ Specification

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR (Ω) max.	Rated Current (A) typ.
<b>SLS5D18 Series</b>				
SLS5D18S560MTT	56.0±20%	0.1V/10K	0.665	0.50
SLS5D18S680MTT	68.0±20%	0.1V/10K	0.840	0.43
SLS5D18S820MTT	82.0±20%	0.1V/10K	0.978	0.41
SLS5D18S101MTT	100±20%	0.1V/10K	1.200	0.36
SLS5D18S121MTT	120±20%	0.1V/10K	1.500	0.33
SLS5D18S151MTT	150±20%	0.1V/10K	1.710	0.31
SLS5D18S181MTT	180±20%	0.1V/10K	2.240	0.28
SLS5D18S221MTT	220±20%	0.1V/10K	2.440	0.23
SLS5D18S331MTT	330±20%	0.1V/10K	4.340	0.18
<b>SLS5D28 Series</b>				
SLS5D28S2R2NTT	2.2±30%	0.1V/10K	0.018	3.00
SLS5D28S3R3NTT	3.3±30%	0.1V/10K	0.025	2.40
SLS5D28S4R7MTT	4.7±30%	0.1V/10K	0.032	2.10
SLS5D28S5R3MTT	5.3±30%	0.1V/10K	0.038	1.90
SLS5D28S6R2MTT	6.2±30%	0.1V/10K	0.045	1.80
SLS5D28S8R2MTT	8.2±30%	0.1V/10K	0.053	1.60
SLS5D28S100MTT	10±20%	0.1V/10K	0.065	1.30
SLS5D28S120MTT	12±20%	0.1V/10K	0.076	1.20
SLS5D28S150MTT	15±20%	0.1V/10K	0.103	1.10
SLS5D28S180MTT	18±20%	0.1V/10K	0.110	1.00
SLS5D28S220MTT	22±20%	0.1V/10K	0.122	0.90
SLS5D28S270MTT	27±20%	0.1V/10K	0.175	0.85
SLS5D28S330MTT	33±20%	0.1V/10K	0.189	0.75
SLS5D28S390MTT	39±20%	0.1V/10K	0.212	0.70
SLS5D28S470MTT	47±20%	0.1V/10K	0.260	0.62
SLS5D28S560MTT	56±20%	0.1V/10K	0.305	0.58
SLS5D28S680MTT	68±20%	0.1V/10K	0.355	0.52
SLS5D28S820MTT	82±20%	0.1V/10K	0.463	0.46
SLS5D28S101MTT	100±20%	0.1V/10K	0.520	0.42
SLS5D28S121MTT	120±20%	0.1V/10K	0.560	0.40
SLS5D28S151MTT	150±20%	0.1V/10K	0.680	0.35
SLS5D28S181MTT	180±20%	0.1V/10K	0.930	0.32
SLS5D28S221MTT	220±20%	0.1V/10K	1.150	0.30
SLS5D28S271MTT	270±20%	0.1V/10K	1.560	0.27
SLS5D28S331MTT	330±20%	0.1V/10K	1.980	0.25
SLS5D28S391MTT	390±20%	0.1V/10K	2.500	0.22
SLS5D28S471MTT	470±20%	0.1V/10K	2.700	0.20
SLS5D28S561MTT	560±20%	0.1V/10K	3.120	0.18
SLS5D28S681MTT	680±20%	0.1V/10K	4.150	0.16

## ◆ Specification

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR (Ω) max.	Rated Current (A) typ.
<b>SLS6D28 Series</b>				
SLS6D28S2R2NTT	2.2±30%	0.1V/10K	0.024	3.60
SLS6D28S3R3NTT	3.3±30%	0.1V/10K	0.030	2.80
SLS6D28S4R7MTT	4.7±30%	0.1V/10K	0.039	2.40
SLS6D28S6R8MTT	6.8±30%	0.1V/10K	0.051	2.10
SLS6D28S7R3MTT	7.3±30%	0.1V/10K	0.054	2.10
SLS6D28S8R6MTT	8.6±30%	0.1V/10K	0.058	1.85
SLS6D28S100MTT	10±20%	0.1V/10K	0.065	1.70
SLS6D28S120MTT	12±20%	0.1V/10K	0.070	1.55
SLS6D28S150MTT	15±20%	0.1V/10K	0.084	1.40
SLS6D28S180MTT	18±20%	0.1V/10K	0.095	1.32
SLS6D28S220MTT	22±20%	0.1V/10K	0.128	1.20
SLS6D28S270MTT	27±20%	0.1V/10K	0.142	1.05
SLS6D28S330MTT	33±20%	0.1V/10K	0.165	0.97
SLS6D28S390MTT	39±20%	0.1V/10K	0.210	0.86
SLS6D28S470MTT	47±20%	0.1V/10K	0.238	0.80
SLS6D28S560MTT	56±20%	0.1V/10K	0.277	0.73
SLS6D28S680MTT	68±20%	0.1V/10K	0.304	0.65
SLS6D28S820MTT	82±20%	0.1V/10K	0.390	0.60
SLS6D28S101MTT	100±20%	0.1V/10K	0.535	0.54
SLS6D28S121MTT	120±20%	0.1V/10K	0.750	0.51
SLS6D28S151MTT	150±20%	0.1V/10K	0.950	0.47
SLS6D28S181MTT	180±20%	0.1V/10K	1.200	0.41
SLS6D28S221MTT	220±20%	0.1V/10K	1.500	0.37
SLS6D28S271MTT	270±20%	0.1V/10K	1.700	0.33
SLS6D28S331MTT	330±20%	0.1V/10K	2.150	0.28
SLS6D28S391MTT	390±20%	0.1V/10K	2.25	0.27
SLS6D28S471MTT	470±20%	0.1V/10K	3.150	0.21
SLS6D28S561MTT	560±20%	0.1V/10K	3.750	0.20
SLS6D28S681MTT	680±20%	0.1V/10K	5.150	0.20

## ◆ Specification

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR (Ω) max.	Rated Current (A) typ.
<b>SLS6D38 Series</b>				
SLS6D38S2R2NTT	2.2±30%	0.1V/10K	0.018	4.40
SLS6D38S3R3NTT	3.3±30%	0.1V/10K	0.025	3.50
SLS6D38S4R7MTT	4.7±20%	0.1V/10K	0.027	2.80
SLS6D38S6R8MTT	6.8±20%	0.1V/10K	0.032	2.40
SLS6D38S8R7MTT	8.7±20%	0.1V/10K	0.034	2.20
SLS6D38S100MTT	10±20%	0.1V/10K	0.038	2.00
SLS6D38S120MTT	12±20%	0.1V/10K	0.053	1.70
SLS6D38S150MTT	15±20%	0.1V/10K	0.057	1.60
SLS6D38S180MTT	18±20%	0.1V/10K	0.092	1.50
SLS6D38S220MTT	22±20%	0.1V/10K	0.096	1.30
SLS6D38S270MTT	27±20%	0.1V/10K	0.109	1.20
SLS6D38S330MTT	33±20%	0.1V/10K	0.124	1.10
SLS6D38S390MTT	39±20%	0.1V/10K	0.138	1.00
SLS6D38S470MTT	47±20%	0.1V/10K	0.155	0.95
SLS6D38S560MTT	56±20%	0.1V/10K	0.202	0.85
SLS6D38S680MTT	68±20%	0.1V/10K	0.234	0.75
SLS6D38S820MTT	82±20%	0.1V/10K	0.324	0.70
SLS6D38S101MTT	100±20%	0.1V/10K	0.358	0.65
SLS6D38S121MTT	120±20%	0.1V/10K	0.470	0.59
SLS6D38S151MTT	150±20%	0.1V/10K	0.580	0.54
SLS6D38S181MTT	180±20%	0.1V/10K	0.690	0.49
SLS6D38S221MTT	220±20%	0.1V/10K	0.890	0.43
SLS6D38S271MTT	270±20%	0.1V/10K	1.290	0.40
SLS6D38S331MTT	330±20%	0.1V/10K	1.700	0.37
SLS6D38S391MTT	390±20%	0.1V/10K	1.750	0.34
SLS6D38S471MTT	470±20%	0.1V/10K	2.200	0.32
SLS6D38S561MTT	560±20%	0.1V/10K	2.850	0.29
SLS6D38S681MTT	680±20%	0.1V/10K	3.200	0.25
SLS6D38S821MTT	820±20%	0.1V/10K	4.050	0.22
SLS6D38S102MTT	1000±20%	0.1V/10K	5.700	0.20

Note:

- (1) Inductance is measured by LCR-meter 4284A(HP) or equivalent.
- (2) DC Resistance is measured by HP4338B Milliohms Meter or equivalent.
- (3) Rated current is measured by LCR-meter 3260B (WK) & DC Bias3265B(WK).
- (4) Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the initial value of inductance has fallen by 35%, whichever is smaller.



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