

# SMD Type Power Inductor

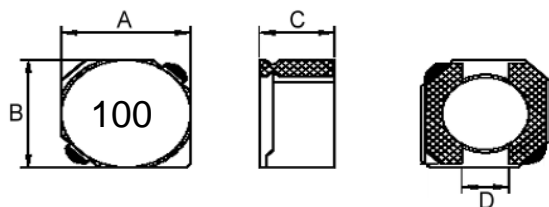
**SSL3D16SF-SERIES**

## 1. Features

- 1.Low profile very effective in space-conscious applications.
- 2.Low resistance and high energy storage.
- 3.This component is compliant with RoHS legislation and also support lead-free soldering.

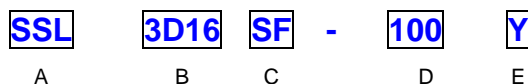


## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
SSL3D16SF	4.1 max.	4.1 max.	1.9 max.	1.2 ref.

## 3. Part Numbering



A: Series (the tin clip)

B: Dimension

C: Lead free type

D: Inductance                      100=10.0uH , 3R3=3.3uH

E: Inductance Tolerance        Y=±30%

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) max.	IDC (A) max.
SSL 3D16SF-1R5Y	1.5	± 30%	0.1V/100K	0.052	1.55
SSL 3D16SF-2R2Y	2.2	± 30%	0.1V/100K	0.072	1.20
SSL 3D16SF-3R3Y	3.3	± 30%	0.1V/100K	0.085	1.10
SSL 3D16SF-4R7Y	4.7	± 30%	0.1V/100K	0.105	0.90
SSL 3D16SF-6R8Y	6.8	± 30%	0.1V/100K	0.170	0.73
SSL 3D16SF-100Y	10	± 30%	0.1V/100K	0.210	0.55
SSL 3D16SF-150Y	15	± 30%	0.1V/100K	0.295	0.45
SSL 3D16SF-220Y	22	± 30%	0.1V/100K	0.430	0.40
SSL 3D16SF-330Y	33	± 30%	0.1V/100K	0.675	0.32

Note:

Based on inductance change ( $\Delta L/L0 : \leq -35\%$ ) @ ambient temp. 25°C

Based on temperature rise ( $\Delta T : 40^\circ\text{C}$  typ.)

# SMD Type Power Inductor

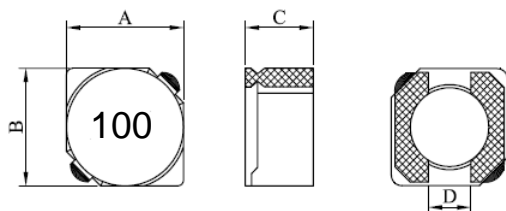
SSL4D18SF-SERIES

## 1. Features

- 1.Low profile very effective in space-conscious applications.
- 2.Low resistance and high energy storage.
- 3.100% Lead(Pb) & Halogen-Free and RoHS compliant.



## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
SSL4D18SF	5.3 max.	5.3 max.	2.0 max.	1.5 ref.

Units: mm

## 3. Part Numbering



A: Series (the tin clip)

B: Dimension

C: Lead free type

D: Inductance                      100=10.0uH , 1R0=1.0uH, 101=100uH

E: Inductance Tolerance        Y=±30%

## 4. Specification

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) max.	IDC (A) max.
SSL 4D18SF-1R0Y	1.0	$\pm 30\%$	0.1V/100K	0.045	1.72
SSL 4D18SF-2R2Y	2.2	$\pm 30\%$	0.1V/100K	0.075	1.32
SSL 4D18SF-2R7Y	2.7	$\pm 30\%$	0.1V/100K	0.105	1.28
SSL 4D18SF-3R3Y	3.3	$\pm 30\%$	0.1V/100K	0.110	1.04
SSL 4D18SF-3R9Y	3.9	$\pm 30\%$	0.1V/100K	0.155	0.88
SSL 4D18SF-4R7Y	4.7	$\pm 30\%$	0.1V/100K	0.162	0.84
SSL 4D18SF-5R6Y	5.6	$\pm 30\%$	0.1V/100K	0.170	0.80
SSL 4D18SF-6R8Y	6.8	$\pm 30\%$	0.1V/100K	0.200	0.76
SSL 4D18SF-8R2Y	8.2	$\pm 30\%$	0.1V/100K	0.245	0.68
SSL 4D18SF-100Y	10	$\pm 30\%$	0.1V/100K	0.200	0.61
SSL 4D18SF-120Y	12	$\pm 30\%$	0.1V/100K	0.210	0.56
SSL 4D18SF-150Y	15	$\pm 30\%$	0.1V/100K	0.240	0.50
SSL 4D18SF-180Y	18	$\pm 30\%$	0.1V/100K	0.338	0.48
SSL 4D18SF-220Y	22	$\pm 30\%$	0.1V/100K	0.397	0.41
SSL 4D18SF-270Y	27	$\pm 30\%$	0.1V/100K	0.441	0.35
SSL 4D18SF-330Y	33	$\pm 30\%$	0.1V/100K	0.694	0.32
SSL 4D18SF-390Y	39	$\pm 30\%$	0.1V/100K	0.709	0.30

Note:

Based on inductance change ( $\Delta L/L0 : \leq -35\%$ ) @ ambient temp. 25°C

Based on temperature rise ( $\Delta T : 40^\circ\text{C}$  typ.)

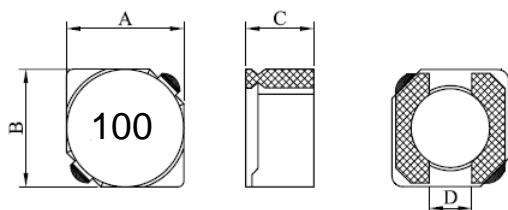
**SMD Type Power Inductor** **SSL4D28SF-SERIES**

**1. Features**

- 1.Low profile very effective in space-conscious applications.
- 2.Low resistance and high energy storage.
- 3.100% Lead(Pb) & Halogen-Free and RoHS compliant.



**2. Dimension**



Series	A(mm)	B(mm)	C(mm)	D(mm)
SSL4D28SF	5.3 max.	5.3 max.	3.0 max.	1.5 ref.

Units: mm

**3. Part Numbering**



- A: Series (the tin clip)
- B: Dimension
- C: Lead free type
- D: Inductance                      100=10.0uH , 1R0=1.0uH, 101=100uH
- E: Inductance Tolerance        Y=±30%

## 4. Specification

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) max.	IDC (A) max.
SSL 4D28SF-1R2Y	1.2	$\pm 30\%$	0.1V/100K	0.024	2.56
SSL 4D28SF-1R8Y	1.8	$\pm 30\%$	0.1V/100K	0.028	2.20
SSL 4D28SF-2R2Y	2.2	$\pm 30\%$	0.1V/100K	0.031	2.04
SSL 4D28SF-2R7Y	2.7	$\pm 30\%$	0.1V/100K	0.043	1.60
SSL 4D28SF-3R3Y	3.3	$\pm 30\%$	0.1V/100K	0.049	1.57
SSL 4D28SF-3R9Y	3.9	$\pm 30\%$	0.1V/100K	0.065	1.44
SSL 4D28SF-4R7Y	4.7	$\pm 30\%$	0.1V/100K	0.072	1.32
SSL 4D28SF-5R6Y	5.6	$\pm 30\%$	0.1V/100K	0.101	1.17
SSL 4D28SF-6R8Y	6.8	$\pm 30\%$	0.1V/100K	0.109	1.12
SSL 4D28SF-8R2Y	8.2	$\pm 30\%$	0.1V/100K	0.118	1.04
SSL 4D28SF-100Y	10	$\pm 30\%$	0.1V/100K	0.128	1.00
SSL 4D28SF-120Y	12	$\pm 30\%$	0.1V/100K	0.132	0.84
SSL 4D28SF-150Y	15	$\pm 30\%$	0.1V/100K	0.149	0.76
SSL 4D28SF-180Y	18	$\pm 30\%$	0.1V/100K	0.166	0.72
SSL 4D28SF-220Y	22	$\pm 30\%$	0.1V/100K	0.235	0.70
SSL 4D28SF-270Y	27	$\pm 30\%$	0.1V/100K	0.261	0.58
SSL 4D28SF-330Y	33	$\pm 30\%$	0.1V/100K	0.378	0.56
SSL 4D28SF-390Y	39	$\pm 30\%$	0.1V/100K	0.384	0.50
SSL 4D28SF-470Y	47	$\pm 30\%$	0.1V/100K	0.587	0.48
SSL 4D28SF-560Y	56	$\pm 30\%$	0.1V/100K	0.625	0.41
SSL 4D28SF-680Y	68	$\pm 30\%$	0.1V/100K	0.699	0.35
SSL 4D28SF-820Y	82	$\pm 30\%$	0.1V/100K	0.915	0.32
SSL 4D28SF-101Y	100	$\pm 30\%$	0.1V/100K	1.020	0.29
SSL 4D28SF-121Y	120	$\pm 30\%$	0.1V/100K	1.270	0.27
SSL 4D28SF-151Y	150	$\pm 30\%$	0.1V/100K	1.350	0.24
SSL 4D28SF-181Y	180	$\pm 30\%$	0.1V/100K	1.540	0.22

Note:

Based on inductance change ( $\Delta L/L_0 : \leq -35\%$ ) @ ambient temp. 25°C

Based on temperature rise ( $\Delta T : 40^\circ\text{C}$  typ.)

# SMD Type Power Inductor

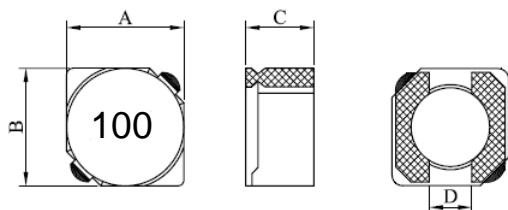
**SSL5D18SF-SERIES**

## 1. Features

- 1.Low profile very effective in space-conscious applications.
- 2.Low resistance and high energy storage.
- 3.100% Lead(Pb) & Halogen-Free and RoHS compliant.



## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
SSL5D18SF	6.1 max.	6.1 max.	2.0 max.	2.0 ref.

Units: mm

## 3. Part Numbering



A: Series (the tin clip)

B: Dimension

C: Lead free type

D: Inductance

100=10.0uH , 4R1=4.1uH, 101=100uH

E: Inductance Tolerance

Y=±30%

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
SSL 5D18SF-4R1Y	4.1	± 30%	0.1V/10K	0.057	1.95
SSL 5D18SF-5R4Y	5.4	± 30%	0.1V/10K	0.076	1.60
SSL 5D18SF-6R2Y	6.2	± 30%	0.1V/10K	0.096	1.40
SSL 5D18SF-8R9Y	8.9	± 30%	0.1V/10K	0.116	1.25
SSL 5D18SF-100Y	10	± 30%	0.1V/10K	0.124	1.20
SSL 5D18SF-120Y	12	± 30%	0.1V/10K	0.153	1.10
SSL 5D18SF-150Y	15	± 30%	0.1V/10K	0.196	0.97
SSL 5D18SF-180Y	18	± 30%	0.1V/10K	0.210	0.85
SSL 5D18SF-220Y	22	± 30%	0.1V/10K	0.290	0.80
SSL 5D18SF-270Y	27	± 30%	0.1V/10K	0.330	0.75
SSL 5D18SF-330Y	33	± 30%	0.1V/10K	0.386	0.65
SSL 5D18SF-390Y	39	± 30%	0.1V/10K	0.520	0.57
SSL 5D18SF-470Y	47	± 30%	0.1V/10K	0.595	0.54
SSL 5D18SF-560Y	56	± 30%	0.1V/10K	0.665	0.50
SSL 5D18SF-680Y	68	± 30%	0.1V/10K	0.840	0.43
SSL 5D18SF-820Y	82	± 30%	0.1V/10K	0.978	0.41
SSL 5D18SF-101Y	100	± 30%	0.1V/10K	1.200	0.36

Note:

Based on inductance change ( $\Delta L/L0$  :  $\leq -35\%$ ) @ ambient temp. 25°CBased on temperature rise ( $\Delta T$  : 40°C typ.)

# SMD Type Power Inductor

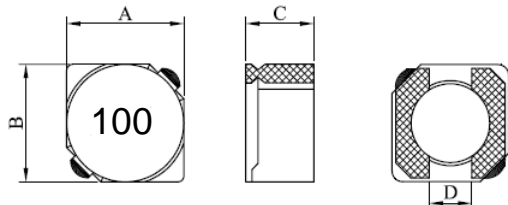
**SSL5D28SF-SERIES**

## 1. Features

- 1.Low profile very effective in space-conscious applications.
- 2.Low resistance and high energy storage.
- 3.100% Lead(Pb) & Halogen-Free and RoHS compliant.



## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
SSL5D28SF	6.1 max.	6.1 max.	3.0 max.	2.0 ref.

Units: mm

## 3. Part Numbering



A: Series (the tin clip)

B: Dimension

C: Lead free type

D: Inductance

100=10.0uH , 2R6=2.6uH, 101=100uH

E: Inductance Tolerance

Y=±30%

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
SSL 5D28SF-2R6Y	2.6	± 30%	0.1V/10K	0.018	2.60
SSL 5D28SF-3R0Y	3.0	± 30%	0.1V/10K	0.024	2.40
SSL 5D28SF-4R2Y	4.2	± 30%	0.1V/10K	0.031	2.20
SSL 5D28SF-5R3Y	5.3	± 30%	0.1V/10K	0.038	1.90
SSL 5D28SF-6R2Y	6.2	± 30%	0.1V/10K	0.045	1.80
SSL 5D28SF-8R2Y	8.2	± 30%	0.1V/10K	0.053	1.60
SSL 5D28SF-100Y	10	± 30%	0.1V/10K	0.065	1.30
SSL 5D28SF-120Y	12	± 30%	0.1V/10K	0.076	1.20
SSL 5D28SF-150Y	15	± 30%	0.1V/10K	0.103	1.10
SSL 5D28SF-180Y	18	± 30%	0.1V/10K	0.110	1.00
SSL 5D28SF-220Y	22	± 30%	0.1V/10K	0.122	0.90
SSL 5D28SF-270Y	27	± 30%	0.1V/10K	0.175	0.85
SSL 5D28SF-330Y	33	± 30%	0.1V/10K	0.189	0.75
SSL 5D28SF-390Y	39	± 30%	0.1V/10K	0.212	0.70
SSL 5D28SF-470Y	47	± 30%	0.1V/10K	0.260	0.62
SSL 5D28SF-560Y	56	± 30%	0.1V/10K	0.305	0.58
SSL 5D28SF-680Y	68	± 30%	0.1V/10K	0.355	0.52
SSL 5D28SF-820Y	82	± 30%	0.1V/10K	0.463	0.46
SSL 5D28SF-101Y	100	± 30%	0.1V/10K	0.520	0.42

Note:

Based on inductance change ( $\Delta L/L0 : \leq -35\%$ ) @ ambient temp. 25°CBased on temperature rise ( $\Delta T : 40^\circ\text{C}$  typ.)

# SMD Type Power Inductor

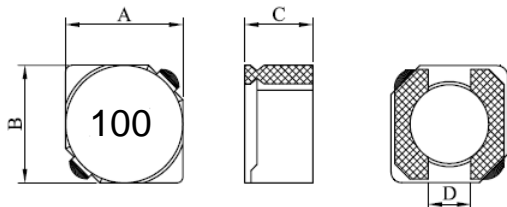
**SSL6D28SF-SERIES**

## 1. Features

1. Low profile very effective in space-conscious applications.
2. Low resistance and high energy storage.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



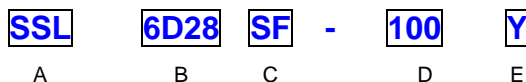
## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
SSL6D28SF	7.1 max.	7.1 max.	3.0 max.	2.0 ref.

Units: mm

## 3. Part Numbering



- A: Series (the tin clip)
- B: Dimension
- C: Lead free type
- D: Inductance                      100=10.0uH , 3R0=3.0uH, 101=100uH
- E: Inductance Tolerance            Y=±30%



## 4. Specification

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) max.	IDC (A) max.
SSL 6D28SF-3R0Y	3.0	$\pm 30\%$	0.1V/10K	0.024	3.00
SSL 6D28SF-3R9Y	3.9	$\pm 30\%$	0.1V/10K	0.027	2.60
SSL 6D28SF-5R0Y	5.0	$\pm 30\%$	0.1V/10K	0.031	2.40
SSL 6D28SF-6R0Y	6.0	$\pm 30\%$	0.1V/10K	0.035	2.25
SSL 6D28SF-7R3Y	7.3	$\pm 30\%$	0.1V/10K	0.054	2.10
SSL 6D28SF-8R6Y	8.6	$\pm 30\%$	0.1V/10K	0.058	1.85
SSL 6D28SF-100Y	10	$\pm 30\%$	0.1V/10K	0.065	1.70
SSL 6D28SF-120Y	12	$\pm 30\%$	0.1V/10K	0.070	1.55
SSL 6D28SF-150Y	15	$\pm 30\%$	0.1V/10K	0.084	1.40
SSL 6D28SF-180Y	18	$\pm 30\%$	0.1V/10K	0.095	1.32
SSL 6D28SF-220Y	22	$\pm 30\%$	0.1V/10K	0.128	1.20
SSL 6D28SF-270Y	27	$\pm 30\%$	0.1V/10K	0.142	1.05
SSL 6D28SF-330Y	33	$\pm 30\%$	0.1V/10K	0.165	0.97
SSL 6D28SF-390Y	39	$\pm 30\%$	0.1V/10K	0.210	0.86
SSL 6D28SF-470Y	47	$\pm 30\%$	0.1V/10K	0.238	0.80
SSL 6D28SF-560Y	56	$\pm 30\%$	0.1V/10K	0.277	0.73
SSL 6D28SF-680Y	68	$\pm 30\%$	0.1V/10K	0.304	0.65
SSL 6D28SF-820Y	82	$\pm 30\%$	0.1V/10K	0.390	0.60
SSL 6D28SF-101Y	100	$\pm 30\%$	0.1V/10K	0.535	0.54

Note:

Isat : Based on inductance change ( $\Delta L/L0 : \leq -35\%$ ) @ ambient temp. 25 $^{\circ}$ C

Irms : Based on temperature rise ( $\Delta T : 40^{\circ}$ C typ.)

# SMD Type Power Inductor

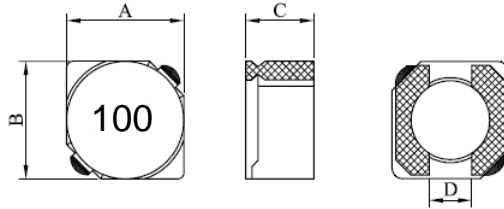
**SSL6D38SF-SERIES**

## 1. Features

- 1.Low profile very effective in space-conscious applications.
- 2.Low resistance and high energy storage.
- 3.100% Lead(Pb) & Halogen-Free and RoHS compliant.



## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
SSL6D38SF	7.1 max.	7.1 max.	4.0 max.	2.0 ref.

Units: mm

## 3. Part Numbering

SSL
6D38
SF
-
100
Y

A                      B                      C                      D                      E

A: Series (the tin clip)

B: Dimension

C: Lead free type

D: Inductance                      100=10.0uH , 3R3=3.3uH, 101=100uH

E: Inductance Tolerance                      Y=±30%

## 4. Specification

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) max.	IDC (A) max.
SSL 6D38SF-3R3Y	3.3	$\pm 30\%$	0.1V/100K	0.020	3.50
SSL 6D38SF-5R0Y	5.0	$\pm 30\%$	0.1V/100K	0.024	2.90
SSL 6D38SF-6R2Y	6.2	$\pm 30\%$	0.1V/100K	0.027	2.50
SSL 6D38SF-7R4Y	7.4	$\pm 30\%$	0.1V/100K	0.031	2.30
SSL 6D38SF-8R7Y	8.7	$\pm 30\%$	0.1V/100K	0.034	2.20
SSL 6D38SF-100Y	10	$\pm 30\%$	0.1V/100K	0.038	2.00
SSL 6D38SF-120Y	12	$\pm 30\%$	0.1V/100K	0.053	1.70
SSL 6D38SF-150Y	15	$\pm 30\%$	0.1V/100K	0.057	1.60
SSL 6D38SF-180Y	18	$\pm 30\%$	0.1V/100K	0.092	1.50
SSL 6D38SF-220Y	22	$\pm 30\%$	0.1V/100K	0.096	1.30
SSL 6D38SF-270Y	27	$\pm 30\%$	0.1V/100K	0.109	1.20
SSL 6D38SF-330Y	33	$\pm 30\%$	0.1V/100K	0.124	1.10
SSL 6D38SF-390Y	39	$\pm 30\%$	0.1V/100K	0.138	1.00
SSL 6D38SF-470Y	47	$\pm 30\%$	0.1V/100K	0.155	0.95
SSL 6D38SF-560Y	56	$\pm 30\%$	0.1V/100K	0.202	0.85
SSL 6D38SF-680Y	68	$\pm 30\%$	0.1V/100K	0.234	0.75
SSL 6D38SF-820Y	82	$\pm 30\%$	0.1V/100K	0.324	0.70
SSL 6D38SF-101Y	100	$\pm 30\%$	0.1V/100K	0.358	0.65

Note:

Isat : Based on inductance change ( $\Delta L/L0 : \leq -35\%$ ) @ ambient temp. 25 $^{\circ}$ C

Irms : Based on temperature rise ( $\Delta T : 40^{\circ}$ C typ.)