

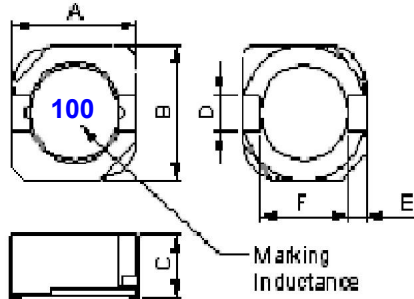
SMD Type Power Inductor

SMDS10D30F-SERIES

1. Features

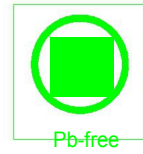
- 1.Low profile very effective in space-conscious applications.
- 2.Low resistance and high energy storage.
- 3.100% Lead(Pb) & Halogen-Free and RoHS compliant.

2. Dimension

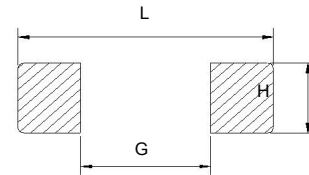


Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SMDS10D30F	10.2±0.3	10.0±0.3	3.0 max.	3.0±0.1	1.2±0.15	7.7±0.3

Units: mm



Recommended PC Board Pattern



SMDS	10D30F
L	10.5
G	7.3
H	3.2

Units: mm

3. Part Numbering

SMDS **10D30** **F** - **100** **M**
 A B C D E

A: Series

B: Dimension

C: Lead free type

D: Inductance

E: Inductance Tolerance

100=10.0uH

M=±20%, Y=±30%

4. Specification

TOCOET Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (Ω) max.	I sat (A) max.	I rms (A) typ.
SMDS10D30F-R80Y	0.8 $\pm$ 30%	0.1V/100K	0.0057	11.2	8.30
SMDS10D30F-1R5Y	1.5 $\pm$ 30%	0.1V/100K	0.011	8.00	5.80
SMDS10D30F-2R2Y	2.2 $\pm$ 30%	0.1V/100K	0.0169	6.70	5.10
SMDS10D30F-3R3Y	3.3 $\pm$ 30%	0.1V/100K	0.021	5.56	4.70
SMDS10D30F-4R7Y	4.7 $\pm$ 30%	0.1V/100K	0.030	4.65	4.00
SMDS10D30F-6R8Y	6.8 $\pm$ 30%	0.1V/100K	0.035	3.84	3.60
SMDS10D30F-8R2Y	8.2 $\pm$ 30%	0.1V/100K	0.050	3.54	3.00
SMDS10D30F-100M	10 $\pm$ 20%	0.1V/100K	0.059	3.18	2.80
SMDS10D30F-150M	15 $\pm$ 20%	0.1V/100K	0.091	2.60	2.05
SMDS10D30F-220M	22 $\pm$ 20%	0.1V/100K	0.143	2.16	1.60
SMDS10D30F-330M	33 $\pm$ 20%	0.1V/100K	0.202	1.74	1.35
SMDS10D30F-470M	47 $\pm$ 20%	0.1V/100K	0.299	1.43	1.20
SMDS10D30F-560M	56 $\pm$ 20%	0.1V/100K	0.325	1.36	1.15
SMDS10D30F-680M	68 $\pm$ 20%	0.1V/100K	0.429	1.22	0.95
SMDS10D30F-820M	82 $\pm$ 20%	0.1V/100K	0.494	1.14	0.80
SMDS10D30F-101M	100 $\pm$ 20%	0.1V/100K	0.683	1.02	0.70
SMDS10D30F-121M	120 $\pm$ 20%	0.1V/100K	0.754	0.89	0.65
SMDS10D30F-151M	150 $\pm$ 20%	0.1V/100K	0.871	0.84	0.51

Note:

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

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

SMD Type Power Inductors

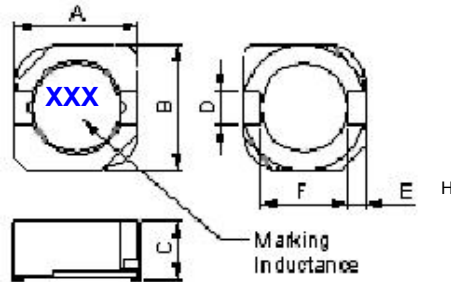
SMDS10D40F-Series

1. Features

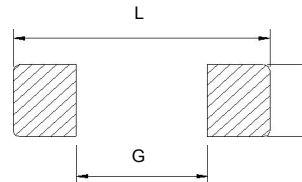
- 1.Low profile very effective in space-conscious applications.
- 2.Low resistance and high energy storage.
- 3.100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



Recommended PC Board Pattern



	SMDS10D40F
L	10.5
G	7.3
H	3.2

Units: mm

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SMDS10D40F	10.2±0.3	10.0±0.3	3.8±0.2	3.0±0.1	1.2±0.15	7.7±0.3

Units: mm

3. Part Numbering

SMDS	10D40	F	-	1R5	Y
A	B	C		D	E

- A: Series
 B: Dimension
 C: Lead free type
 D: Inductance
 E: Inductance Tolerance

1R5=1.50uH
 M=±20%, Y=±30%

4. Specification

Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (Ω) max.	I sat (A) max.	I rms (A) typ.
SMDS10D40F-1R5Y	1.5 $\pm$ 30%	0.1V/100K	0.0081	10.0	6.50
SMDS10D40F-2R5Y	2.5 $\pm$ 30%	0.1V/100K	0.0105	7.50	6.10
SMDS10D40F-3R8Y	3.8 $\pm$ 30%	0.1V/100K	0.013	6.00	5.50
SMDS10D40F-5R2Y	5.2 $\pm$ 30%	0.1V/100K	0.022	5.50	5.40
SMDS10D40F-6R8Y	6.8 $\pm$ 30%	0.1V/100K	0.027	4.80	4.50
SMDS10D40F-7R0Y	7.0 $\pm$ 30%	0.1V/100K	0.027	4.80	4.50
SMDS10D40F-100M	10 $\pm$ 20%	0.1V/100K	0.035	4.40	3.80
SMDS10D40F-150M	15 $\pm$ 20%	0.1V/100K	0.050	3.60	3.10
SMDS10D40F-220M	22 $\pm$ 20%	0.1V/100K	0.073	2.90	2.50
SMDS10D40F-330M	33 $\pm$ 20%	0.1V/100K	0.093	2.30	2.20
SMDS10D40F-470M	47 $\pm$ 20%	0.1V/100K	0.155	2.10	1.90
SMDS10D40F-680M	68 $\pm$ 20%	0.1V/100K	0.213	1.50	1.42
SMDS10D40F-101M	100 $\pm$ 20%	0.1V/100K	0.304	1.35	1.25
SMDS10D40F-151M	150 $\pm$ 20%	0.1V/100K	0.506	1.15	0.82
SMDS10D40F-221M	220 $\pm$ 20%	0.1V/100K	0.756	0.92	0.70
SMDS10D40F-331M	330 $\pm$ 20%	0.1V/100K	1.090	0.70	0.52

Note:

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

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

SMD Type Power Inductors

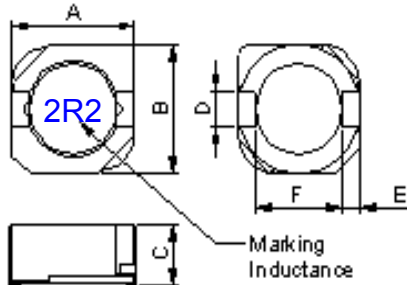
SMDS10D50F-Series

1.Features

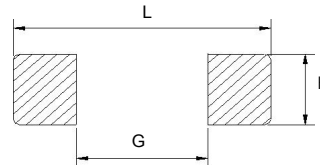
- 1.Low profile very effective in space-conscious applications.
- 2.Low resistance and high energy storage.
- 3.This component is compliant with RoHS legislation and also support lead-free soldering.



2.Dimension



Recommended PC Board Pattern



	10D50F
SMDS	10.5
L	7.3
G	3.2
H	

Units: mm

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SMDS10D50F	10.5 max.	10.3 max.	5.0 max.	3.0 ref.	1.2±0.15	7.7±0.3

Units: mm

3. Part Numbering

SMDS	10D50	F	-	2R2	Y
A	B	C		D	E

- A: Series
 B: Dimension
 C: Lead Free Code
 D: Inductance
 E: Inductance Tolerance

2R2=2.2uH
 M=±20%, Y=±30%

4. Specification

TOCOET Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (m Ω) max.	I sat (A) max.	I rms (A) typ.
SMDS10D50F-R80Y	0.8 $\pm$ 30%	0.1V/100K	4.3	9.50	13.50
SMDS10D50F-1R5Y	1.5 $\pm$ 30%	0.1V/100K	5.8	8.30	10.50
SMDS10D50F-2R2Y	2.2 $\pm$ 30%	0.1V/100K	7.2	7.50	9.25
SMDS10D50F-3R3Y	3.3 $\pm$ 30%	0.1V/100K	10.4	6.50	7.80
SMDS10D50F-4R7Y	4.7 $\pm$ 30%	0.1V/100K	12.3	6.10	6.40
SMDS10D50F-6R8Y	6.8 $\pm$ 30%	0.1V/100K	18.0	5.40	5.40
SMDS10D50F-8R2Y	8.2 $\pm$ 30%	0.1V/100K	20.0	5.00	4.85
SMDS10D50F-100M	10 $\pm$ 20%	0.1V/100K	26.0	4.50	4.45
SMDS10D50F-120M	12 $\pm$ 20%	0.1V/100K	33.0	3.80	4.00
SMDS10D50F-150M	15 $\pm$ 20%	0.1V/100K	41.0	3.40	3.60
SMDS10D50F-180M	18 $\pm$ 20%	0.1V/100K	46.0	3.10	3.20
SMDS10D50F-220M	22 $\pm$ 20%	0.1V/100K	61.0	2.90	2.95
SMDS10D50F-270M	27 $\pm$ 20%	0.1V/100K	69.0	2.60	2.70
SMDS10D50F-330M	33 $\pm$ 20%	0.1V/100K	84.0	2.50	2.40
SMDS10D50F-390M	39 $\pm$ 20%	0.1V/100K	106.0	2.25	2.30
SMDS10D50F-470M	47 $\pm$ 20%	0.1V/100K	130.0	2.00	2.00
SMDS10D50F-560M	56 $\pm$ 20%	0.1V/100K	149.0	1.90	1.90
SMDS10D50F-680M	68 $\pm$ 20%	0.1V/100K	201.0	1.60	1.65
SMDS10D50F-820M	82 $\pm$ 20%	0.1V/100K	227.0	1.45	1.50
SMDS10D50F-101M	100 $\pm$ 20%	0.1V/100K	253.0	1.35	1.35
SMDS10D50F-121M	120 $\pm$ 20%	0.1V/100K	303.0	1.18	1.28
SMDS10D50F-151M	150 $\pm$ 20%	0.1V/100K	370.0	1.10	1.12
SMDS10D50F-181M	180 $\pm$ 20%	0.1V/100K	419.0	1.00	1.04
SMDS10D50F-221M	220 $\pm$ 20%	0.1V/100K	500.0	0.94	0.94
SMDS10D50F-271M	270 $\pm$ 20%	0.1V/100K	672.0	0.80	0.84
SMDS10D50F-331M	330 $\pm$ 20%	0.1V/100K	812.0	0.73	0.75
SMDS10D50F-391M	390 $\pm$ 20%	0.1V/100K	953.0	0.70	0.70
SMDS10D50F-471M	470 $\pm$ 20%	0.1V/100K	1289.0	0.54	0.60
SMDS10D50F-561M	560 $\pm$ 20%	0.1V/100K	1430.0	0.52	0.54
SMDS10D50F-681M	680 $\pm$ 20%	0.1V/100K	1599.0	0.51	0.52
SMDS10D50F-821M	820 $\pm$ 20%	0.1V/100K	1768.0	0.48	0.50
SMDS10D50F-102M	1000 $\pm$ 20%	0.1V/100K	1989.0	0.42	0.48

Note:

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

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

SMD Type Power Inductor

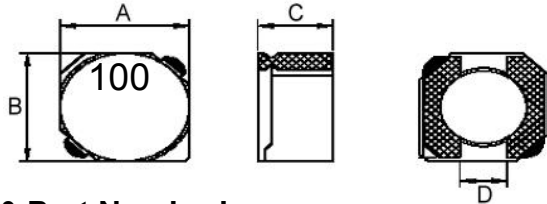
**SMDS3D16SF-
SERIES**

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.

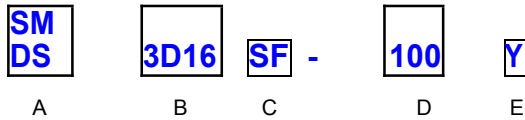


2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
SMDS3D16SF	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

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

Note:

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

Based on temperature rise (ΔT : 40°C typ.)

SMD Type Power Inductor

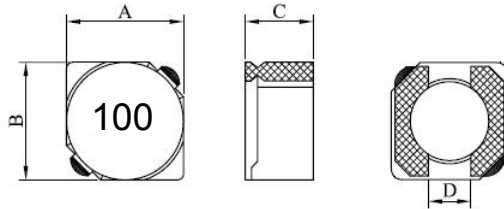
**SMDS4D18SF-
SERIES**

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)
SMDS4D18SF	5.3 max.	5.3 max.	2.0 max.	1.5 ref.

Units: mm

3. Part Numbering

SMDS
4D18
SF
-
100
Y

A
B
C
D
E

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%

www.tocossc.com

4. Specification

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

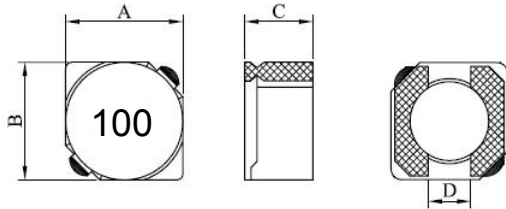
**SMDS4D28SF-
SERIES**

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.



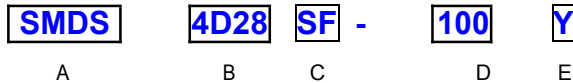
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
SMDS4D28SF	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

E: Inductance Tolerance

100=10.0uH , 1R0=1.0uH, 101=100uH

Y=±30%

4. Specification

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

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

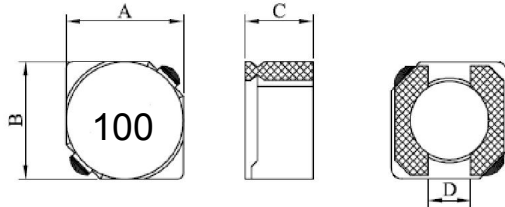
**SMDS5D18SF-
SERIES**

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)
SMDS5D18SF	6.1 max.	6.1 max.	2.0 max.	2.0 ref.

Units: mm

3. Part Numbering

SMDS **5D18** **SF** - **100** **Y**
 A B C D E

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

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

Note:

Based on inductance change ($\Delta L/L0$: ≤-35%) @ ambient temp. 25℃Based on temperature rise (ΔT : 40℃ typ.)

SMD Type Power Inductor

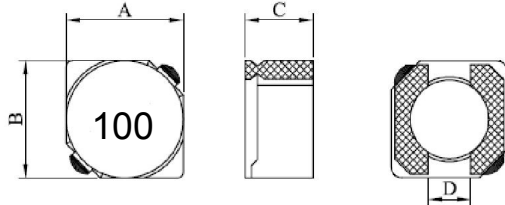
**SMDS5D28SF-
SERIES**

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.



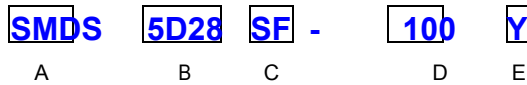
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
SMDS5D28SF	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

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

Note:

Based on inductance change (ΔL/L0 : ≤-35%) @ ambient temp. 25℃

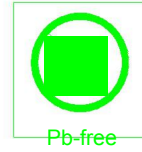
Based on temperature rise (ΔT : 40℃ typ.)

SMD Type Power Inductor

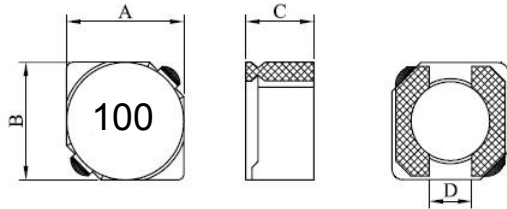
**SMDS6D28SF-
SERIES**

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)
SMDS6D28SF	7.1 max.	7.1 max.	3.0 max.	2.0 ref.

Units: mm

3. Part Numbering

SMDS **6D28** **SF** - **100** **Y**

A B C D E

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%

www.tocos.com

4. Specification

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

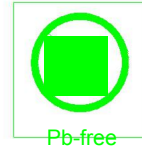
Irms : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)

SMD Type Power Inductor

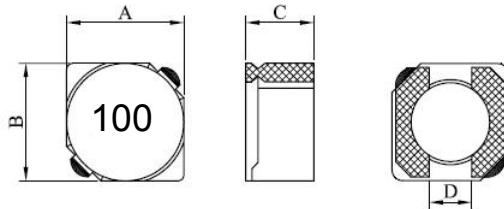
**SMDS6D38SF-
SERIES**

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.



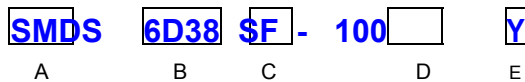
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
SMDS6D38SF	7.1 max.	7.1 max.	4.0 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 , 3R3=3.3uH, 101=100uH

E: Inductance Tolerance

Y=±30%

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4. Specification

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

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