

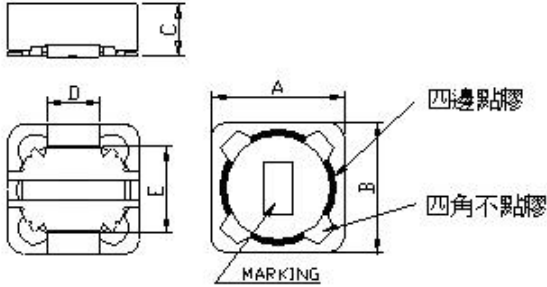
SMD Type Power Inductor SMDT0704F-SERIES-G01P1.

1. Features

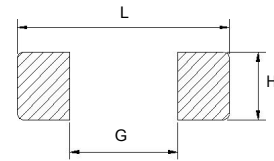
- 1. Magnetic Shielded surface mount inductor with high current rating.
- 2. Low resistance to keep power loss minimum.
- 3. This component is compliant with RoHS legislation and also support lead-free soldering.



2. Dimension



Recommended PC Board Pattern

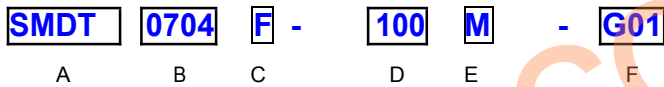


Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SMDT0704F	7.5 max.	7.5 max.	4.5 max.	2.7±0.2	5.1±0.2

L (mm)	G (mm)	H (mm)
7.5	5.1	3.1

Units: mm

3. Part Numbering



- A: Series
- B: Dimension
- C: Lead free type
- D: Inductance 100=10uH
- E: Inductance Tolerance M=±20%
- F: Control S/N

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4. Specification

TOCOET Part Number	Inductance (uH)		DCR (Ω) max.	Rated Current (A) max.
	Tolerance	Test Frequency (Hz)		
SMDT0704F-100M-G01	10±20%	1K/1V	0.049	1.84
SMDT0704F-120M-G01	12±20%	1K/1V	0.058	1.71
SMDT0704F-150M-G01	15±20%	1K/1V	0.081	1.47
SMDT0704F-180M-G01	18±20%	1K/1V	0.091	1.31
SMDT0704F-220M-G01	22±20%	1K/1V	0.11	1.23
SMDT0704F-270M-G01	27±20%	1K/1V	0.15	1.12
SMDT0704F-330M-G01	33±20%	1K/1V	0.17	0.96
SMDT0704F-390M-G01	39±20%	1K/1V	0.23	0.91
SMDT0704F-470M-G01	47±20%	1K/1V	0.26	0.88
SMDT0704F-560M-G01	56±20%	1K/1V	0.35	0.75
SMDT0704F-680M-G01	68±20%	1K/1V	0.38	0.69
SMDT0704F-820M-G01	82±20%	1K/1V	0.43	0.61
SMDT0704F-101M-G01	100±20%	1K/0.25V	0.61	0.60
SMDT0704F-121M-G01	120±20%	1K/0.25V	0.66	0.52
SMDT0704F-151M-G01	150±20%	1K/0.25V	0.88	0.46
SMDT0704F-181M-G01	180±20%	1K/0.25V	0.98	0.42
SMDT0704F-221M-G01	220±20%	1K/0.25V	1.17	0.36
SMDT0704F-271M-G01	270±20%	1K/0.25V	1.64	0.34
SMDT0704F-331M-G01	330±20%	1K/0.25V	1.86	0.32
SMDT0704F-391M-G01	390±20%	1K/0.25V	2.85	0.29
SMDT0704F-471M-G01	470±20%	1K/0.25V	3.01	0.26
SMDT0704F-561M-G01	560±20%	1K/0.25V	3.62	0.23
SMDT0704F-681M-G01	680±20%	1K/0.25V	4.63	0.22
SMDT0704F-821M-G01	820±20%	1K/0.25V	5.20	0.20
SMDT0704F-102M-G01	1000±20%	1K/0.25V	6.00	0.18

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

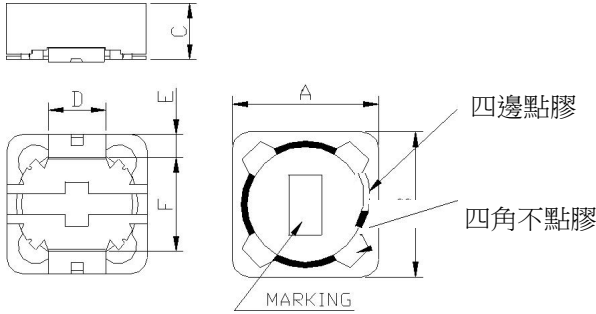
SMDT1204F-SERIES

1. Features

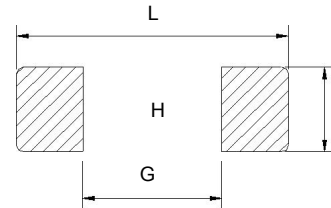
1. Magnetic Shielded surface mount inductor with high current rating.
2. Low resistance to keep power loss minimum.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



Recommended PC Board Pattern

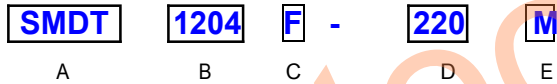


Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SMDT1204F	12.8 max.	12.8 max.	5.0 max.	5.0 ref.	2.2 ref.	7.6 ref.

Units: mm

L(mm)	G(mm)	H(mm)
12.6	7.0	5.4

3. Part Numbering



- A: Series (the tin clip)
- B: Dimension
- C: Lead free type
- D: Inductance 220=22.0uH , 3R9=3.9uH , 221=220uH
- E: Inductance Tolerance M=±20% , Y=±30%

4. Specification

TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
SMDT 1204F-3R9Y	3.9	$\pm 30\%$	1V/100K	0.015	6.50
SMDT 1204F-4R7Y	4.7	$\pm 30\%$	1V/100K	0.018	5.70
SMDT 1204F-6R8Y	6.8	$\pm 30\%$	1V/100K	0.023	4.90
SMDT 1204F-8R2Y	8.2	$\pm 30\%$	1V/100K	0.026	4.60
SMDT 1204F-100M	10	$\pm 20\%$	1V/100K	0.028	4.50
SMDT 1204F-120M	12	$\pm 20\%$	1V/100K	0.038	4.00
SMDT 1204F-150M	15	$\pm 20\%$	1V/100K	0.052	3.20
SMDT 1204F-180M	18	$\pm 20\%$	1V/100K	0.060	3.10
SMDT 1204F-220M	22	$\pm 20\%$	1V/100K	0.070	2.90
SMDT 1204F-270M	27	$\pm 20\%$	1V/100K	0.080	2.80
SMDT 1204F-820M	82	$\pm 20\%$	1V/100K	0.260	1.30
SMDT 1204F-101M	100	$\pm 20\%$	1V/100K	0.308	1.20
SMDT 1204F-121M	120	$\pm 20\%$	1V/100K	0.380	1.10
SMDT 1204F-151M	150	$\pm 20\%$	1V/100K	0.530	0.95
SMDT 1204F-181M	180	$\pm 20\%$	1V/100K	0.620	0.85
SMDT 1204F-221M	220	$\pm 20\%$	1V/100K	0.700	0.80
SMDT 1204F-271M	270	$\pm 20\%$	1V/100K	0.870	0.60
SMDT 1204F-331M	330	$\pm 20\%$	1V/100K	0.990	0.50

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.)

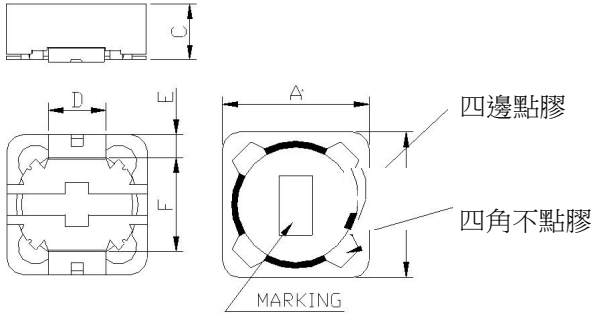
SMD Type Power Inductor **SMDT1205F-SERIES**

1. Features

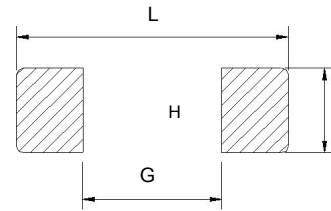
- 1. Magnetic Shielded surface mount inductor with high current rating.
- 2. Low resistance to keep power loss minimum.
- 3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



Recommended PC Board Pattern

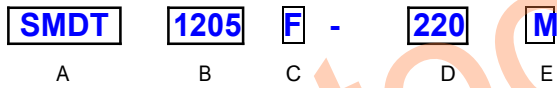


Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SMDT1205F	12.8 max.	12.8 max.	6.0 max.	5.0 ref.	2.2 ref.	7.6 ref.

L(mm)	G(mm)	H(mm)
12.6	7.0	5.4

Units: mm

3. Part Numbering



- A: Series (the tin clip)
- B: Dimension
- C: Lead free type
- D: Inductance 220=22.0uH , 2R1=2.1uH , 221=220uH
- E: Inductance Tolerance M=±20% , Y=±30%

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4. Specification

TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
SMDT 1205F-1R3Y	1.3	± 30%	1V/100K	0.012	8.00
SMDT 1205F-2R1Y	2.1	± 30%	1V/100K	0.014	7.00
SMDT 1205F-3R1Y	3.1	± 30%	1V/100K	0.017	6.00
SMDT 1205F-4R4Y	4.4	± 30%	1V/100K	0.020	5.00
SMDT 1205F-5R8Y	5.8	± 30%	1V/100K	0.021	4.40
SMDT 1205F-7R5Y	7.5	± 30%	1V/100K	0.024	4.20
SMDT 1205F-100M	10	± 20%	1V/1K	0.025	4.00
SMDT 1205F-120M	12	± 20%	1V/1K	0.027	3.50
SMDT 1205F-150M	15	± 20%	1V/1K	0.030	3.30
SMDT 1205F-180M	18	± 20%	1V/1K	0.034	3.00
SMDT 1205F-270M	27	± 20%	1V/1K	0.051	2.30
SMDT 1205F-330M	33	± 20%	1V/1K	0.057	2.10
SMDT 1205F-390M	39	± 20%	1V/1K	0.068	2.00
SMDT 1205F-470M	47	± 20%	1V/1K	0.075	1.80
SMDT 1205F-560M	56	± 20%	1V/1K	0.110	1.70
SMDT 1205F-680M	68	± 20%	1V/1K	0.120	1.50
SMDT 1205F-820M	82	± 20%	1V/1K	0.140	1.40
SMDT 1205F-101M	100	± 20%	1V/1K	0.160	1.30
SMDT 1205F-121M	120	± 20%	1V/1K	0.170	1.10
SMDT 1205F-151M	150	± 20%	1V/1K	0.230	1.00
SMDT 1205F-181M	180	± 20%	1V/1K	0.290	0.90
SMDT 1205F-221M	220	± 20%	1V/1K	0.400	0.80
SMDT 1205F-271M	270	± 20%	1V/1K	0.460	0.75
SMDT 1205F-331M	330	± 20%	1V/1K	0.510	0.68
SMDT 1205F-391M	390	± 20%	1V/1K	0.690	0.65
SMDT 1205F-471M	470	± 20%	1V/1K	0.770	0.58
SMDT 1205F-561M	560	± 20%	1V/1K	0.860	0.54
SMDT 1205F-681M	680	± 20%	1V/1K	1.200	0.48
SMDT 1205F-821M	820	± 20%	1V/1K	1.340	0.43
SMDT 1205F-102M	1000	± 20%	1V/1K	1.530	0.40

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.)

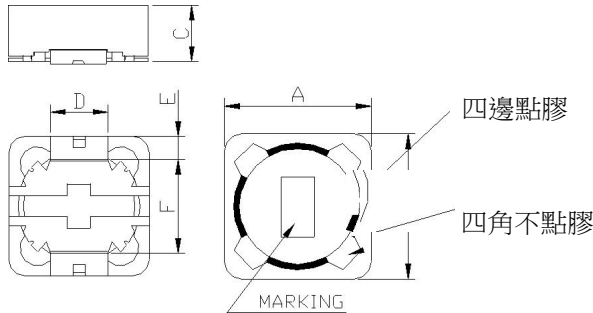
SMD Type Power Inductor **SMDT1207F-SERIES**

1. Features

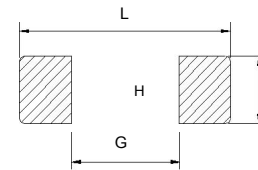
- 1.Magnetic Shielded surface mount inductor with high current rating.
- 2.Low resistance to keep power loss minimum.
- 3.100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



Recommended PC Board Pattern

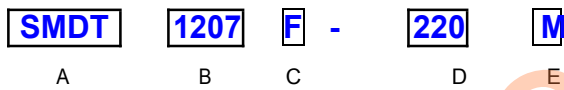


Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SMDT1207F	12.8 max.	12.8 max.	8.5 max.	5.0 ref.	2.2 ref.	7.6 ref.

Units: mm

L(mm)	G(mm)	H(mm)
12.6	7.0	5.4

3. Part Numbering



- A: Series (the tin clip)
- B: Dimension
- C: Lead free type
- D: Inductance 220=22.0uH, 2R4=2.4uH, 221=220uH
- E: Inductance Tolerance M=±20%, Y=±30%

4. Specification

TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
SMDT 1207F-1R2Y	1.2	$\pm 30\%$	1V/100K	0.0070	9.80
SMDT 1207F-2R2Y	2.2	$\pm 30\%$	1V/100K	0.0115	8.00
SMDT 1207F-2R4Y	2.4	$\pm 30\%$	1V/100K	0.0115	8.00
SMDT 1207F-3R3Y	3.3	$\pm 30\%$	1V/100K	0.0135	12.00
SMDT 1207F-3R5Y	3.5	$\pm 30\%$	1V/100K	0.0135	7.50
SMDT 1207F-4R7Y	4.7	$\pm 30\%$	1V/100K	0.0158	6.80
SMDT 1207F-6R1Y	6.1	$\pm 30\%$	1V/100K	0.0176	6.60
SMDT 1207F-6R8Y	6.8	$\pm 30\%$	1V/100K	0.0185	6.20
SMDT 1207F-7R6Y	7.6	$\pm 30\%$	1V/100K	0.0200	5.90
SMDT 1207F-100M	10	$\pm 20\%$	1V/1K	0.0216	5.40
SMDT 1207F-120M	12	$\pm 20\%$	1V/1K	0.0243	4.90
SMDT 1207F-150M	15	$\pm 20\%$	1V/1K	0.0270	4.50
SMDT 1207F-180M	18	$\pm 20\%$	1V/1K	0.0392	3.90
SMDT 1207F-220M	22	$\pm 20\%$	1V/1K	0.0432	3.60
SMDT 1207F-270M	27	$\pm 20\%$	1V/1K	0.0459	3.40
SMDT 1207F-330M	33	$\pm 20\%$	1V/1K	0.0648	3.00
SMDT 1207F-390M	39	$\pm 20\%$	1V/1K	0.0729	2.75
SMDT 1207F-470M	47	$\pm 20\%$	1V/1K	0.1000	2.50
SMDT 1207F-560M	56	$\pm 20\%$	1V/1K	0.1100	2.35
SMDT 1207F-680M	68	$\pm 20\%$	1V/1K	0.1400	2.10
SMDT 1207F-820M	82	$\pm 20\%$	1V/1K	0.1600	1.95
SMDT 1207F-101M	100	$\pm 20\%$	1V/1K	0.2200	1.70
SMDT 1207F-121M	120	$\pm 20\%$	1V/1K	0.2500	1.60
SMDT 1207F-151M	150	$\pm 20\%$	1V/1K	0.2800	1.42
SMDT 1207F-181M	180	$\pm 20\%$	1V/1K	0.3500	1.30
SMDT 1207F-221M	220	$\pm 20\%$	1V/1K	0.3900	1.16
SMDT 1207F-271M	270	$\pm 20\%$	1V/1K	0.5600	1.06
SMDT 1207F-331M	330	$\pm 20\%$	1V/1K	0.6400	0.95
SMDT 1207F-391M	390	$\pm 20\%$	1V/1K	0.7000	0.88
SMDT 1207F-471M	470	$\pm 20\%$	1V/1K	0.9800	0.79
SMDT 1207F-561M	560	$\pm 20\%$	1V/1K	1.0700	0.73
SMDT 1207F-681M	680	$\pm 20\%$	1V/1K	1.4600	0.67
SMDT 1207F-821M	820	$\pm 20\%$	1V/1K	1.6400	0.60
SMDT 1207F-102M	1000	$\pm 20\%$	1V/1K	1.8200	0.55

Note:

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

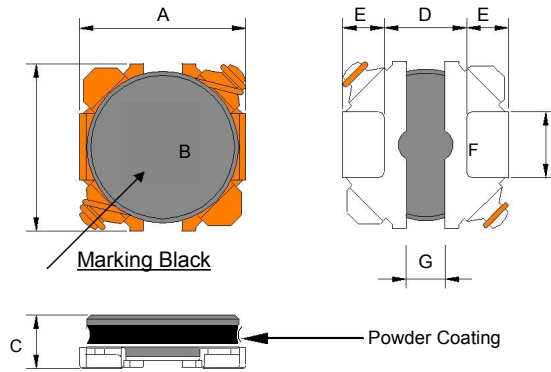
Power Inductor	SMDT3010C-Series
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1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



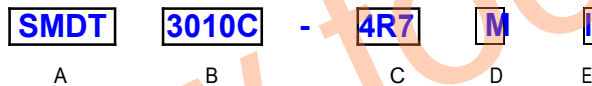
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
SMDT3010C	3.0 ± 0.2	2.9 ± 0.2	1.0 max.	1.5 typ.	0.76 typ.	1.2 typ.	0.7 typ.

Units: mm

3. Part Numbering



- A: Series
- B: Dimension
- C: Inductance 4R7=4.7uH
- D: Inductance Tolerance M=±20%; Y=±30%
- E: Marking

4. Specification

TOCOET Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) $\pm 20\%$	Rated DC Current (A)		Marking
					IDC1	IDC2	
SMDT3010C-1R0YA	1.0	$\pm 30\%$	0.1V/100K	64m	1.50	1.70	A
SMDT3010C-1R2YB	1.2	$\pm 30\%$	0.1V/100K	72m	1.30	1.60	B
SMDT3010C-1R5YC	1.5	$\pm 30\%$	0.1V/100K	86m	1.10	1.45	C
SMDT3010C-2R2YE	2.2	$\pm 30\%$	0.1V/100K	0.12	0.95	1.25	E
SMDT3010C-3R3YG	3.3	$\pm 30\%$	0.1V/100K	0.17	0.80	1.00	G
SMDT3010C-3R9YH	3.3	$\pm 30\%$	0.1V/100K	0.20	0.70	0.90	H
SMDT3010C-4R7MI	4.7	$\pm 20\%$	0.1V/100K	0.25	0.65	0.85	I
SMDT3010C-5R6MJ	5.6	$\pm 20\%$	0.1V/100K	0.30	0.60	0.78	J
SMDT3010C-6R8MK	6.8	$\pm 20\%$	0.1V/100K	0.35	0.55	0.70	K
SMDT3010C-8R2ML	8.2	$\pm 20\%$	0.1V/100K	0.40	0.50	0.65	L
SMDT3010C-100MM	10	$\pm 20\%$	0.1V/100K	0.49	0.45	0.60	M
SMDT3010C-150MO	15	$\pm 20\%$	0.1V/100K	0.68	0.38	0.50	O
SMDT3010C-220MQ	22	$\pm 20\%$	0.1V/100K	1.00	0.33	0.40	Q

Note:

IDC1 : Based on inductance change ($\Delta L/L0 : \leq -30\%$) @ ambient temp. 25°C

IDC2 : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)

Rated DC Current : The less value which is IDC1 or IDC2.

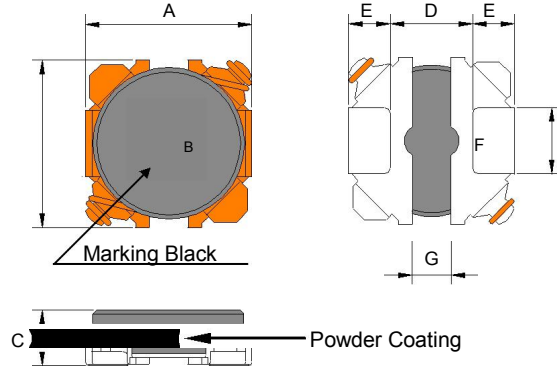
Power Inductor **SMDT3012C-Series**

1. Features

- 1. This specification applies Low Profile Power Inductors.
- 2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
SMDT3012C	3.0±0.2	2.9±0.2	1.2 max.	1.5 typ.	0.76 typ.	1.2 typ.	0.7 typ.

Units: mm

3. Part Numbering



- A: Series
- B: Dimension
- C: Inductance 4R7=4.7uH
- D: Inductance Tolerance M=±20%; Y=±30%
- E: Marking

4. Specification

TOCOET Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) $\pm 20\%$	Rated DC Current (A)		Marking
					IDC1	IDC2	
SMDT3012C-R47Y6	0.47	$\pm 30\%$	0.1V/100K	32m	2.80	2.05	6
SMDT3012C-R56Y7	0.56	$\pm 30\%$	0.1V/100K	38m	2.50	1.95	7
SMDT3012C-R68Y8	0.68	$\pm 30\%$	0.1V/100K	44m	2.10	1.85	8
SMDT3012C-1R0YA	1.0	$\pm 30\%$	0.1V/100K	53m	1.90	1.70	A
SMDT3012C-1R2YB	1.2	$\pm 30\%$	0.1V/100K	53m	1.90	1.70	B
SMDT3012C-1R5YC	1.5	$\pm 30\%$	0.1V/100K	67m	1.70	1.55	C
SMDT3012C-2R2YE	2.2	$\pm 30\%$	0.1V/100K	93m	1.30	1.40	E
SMDT3012C-2R7YF	2.7	$\pm 30\%$	0.1V/100K	0.12	1.20	1.25	F
SMDT3012C-3R3YG	3.3	$\pm 30\%$	0.1V/100K	0.13	1.10	1.20	G
SMDT3012C-4R7MI	4.7	$\pm 20\%$	0.1V/100K	0.19	0.95	0.95	I
SMDT3012C-5R6MJ	5.6	$\pm 20\%$	0.1V/100K	0.22	0.83	0.85	J
SMDT3012C-6R8MK	6.8	$\pm 20\%$	0.1V/100K	0.26	0.80	0.80	K
SMDT3012C-100MM	10	$\pm 20\%$	0.1V/100K	0.36	0.65	0.67	M
SMDT3012C-150MO	15	$\pm 20\%$	0.1V/100K	0.53	0.55	0.56	O
SMDT3012C-220MQ	22	$\pm 20\%$	0.1V/100K	0.79	0.45	0.41	Q
SMDT3012C-330MS	33	$\pm 20\%$	0.1V/100K	1.14	0.36	0.31	S
SMDT3012C-470MU	47	$\pm 20\%$	0.1V/100K	1.53	0.30	0.22	U

Note:

IDC1 : Based on inductance change ($\Delta L/L0 : \leq -30\%$) @ ambient temp. 25°C

IDC2 : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)

Rated DC Current : The less value which is IDC1 or IDC2.

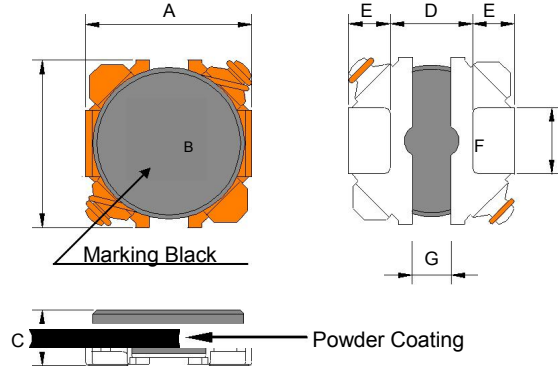
Power Inductor	SMDT3015C- Series
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1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
SMDT3015C	3.0±0.2	2.9±0.2	1.5 max.	1.5 typ.	0.76 typ.	1.2 typ.	0.7 typ.

Units: mm

3. Part Numbering



A: Series

B: Dimension

C: Inductance

D: Inductance Tolerance

E: Marking

4R7=4.7uH

M=±20%; Y=±30%

4. Specification

TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	Rated DC Current (A)		Marking
					IDC1	IDC2	
SMDT3015C-R68Y8	0.68	±30%	0.1V/100K	38m	3.40	2.00	8
SMDT3015C-1R0YA	1.0	±30%	0.1V/100K	44m	3.00	1.85	A
SMDT3015C-1R2YB	1.2	±30%	0.1V/100K	55m	2.50	1.70	B
SMDT3015C-1R5YC	1.5	±30%	0.1V/100K	71m	2.20	1.55	C
SMDT3015C-1R8YD	1.8	±30%	0.1V/100K	79m	2.00	1.45	D
SMDT3015C-2R2YE	2.2	±30%	0.1V/100K	99m	1.90	1.35	E
SMDT3015C-2R7YF	2.7	±30%	0.1V/100K	0.11	1.70	1.30	F
SMDT3015C-3R3YG	3.3	±30%	0.1V/100K	0.12	1.60	1.25	G
SMDT3015C-4R7MI	4.7	±20%	0.1V/100K	0.18	1.30	1.05	I
SMDT3015C-5R6MJ	5.6	±20%	0.1V/100K	0.20	1.20	1.00	J
SMDT3015C-6R8MK	6.8	±20%	0.1V/100K	0.22	1.10	0.95	K
SMDT3015C-8R2ML	8.2	±20%	0.1V/100K	0.31	1.00	0.80	L
SMDT3015C-100MM	10	±20%	0.1V/100K	0.33	0.95	0.75	M
SMDT3015C-150MO	15	±20%	0.1V/100K	0.54	0.70	0.60	O
SMDT3015C-220MQ	22	±20%	0.1V/100K	0.78	0.65	0.42	Q
SMDT3015C-330MS	33	±20%	0.1V/100K	1.38	0.50	0.31	S
SMDT3015C-470MU	47	±20%	0.1V/100K	1.68	0.40	0.26	U

Note:

IDC1 : Based on inductance change ($\Delta L/L0 : \leq -30\%$) @ ambient temp. 25°C

IDC2 : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)

Rated DC Current : The less value which is IDC1 or IDC2.

Power Inductor

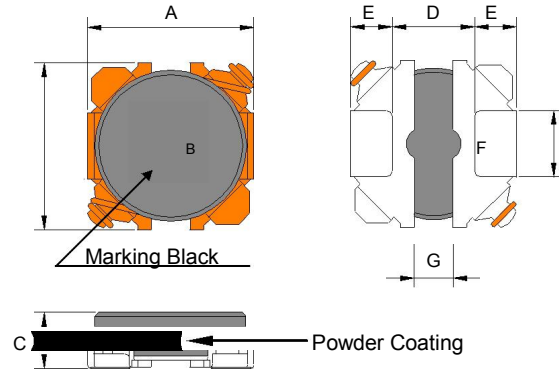
SMDT3020C-Series

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
SMDT3020C	3.0±0.2	2.9±0.2	2.0 max.	1.5 typ.	0.76 typ.	1.2 typ.	0.7 typ.

Units: mm

3. Part Numbering



- A: Series
- B: Dimension
- C: Inductance 4R7=4.7uH
- D: Inductance Tolerance M=±20%; Y=±30%
- E: Marking

4. Specification

TOCOET Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) $\pm 20\%$	Rated DC Current (A)		Marking
					IDC1	IDC2	
SMDT3020C-1R0YA	1.0	$\pm 30\%$	0.1V/100K	51m	3.60	1.75	A
SMDT3020C-1R5YC	1.5	$\pm 30\%$	0.1V/100K	72m	2.90	1.55	C
SMDT3020C-2R2YE	2.2	$\pm 30\%$	0.1V/100K	89m	2.50	1.40	E
SMDT3020C-3R3YG	3.3	$\pm 30\%$	0.1V/100K	0.13	1.90	1.20	G
SMDT3020C-4R7MI	4.7	$\pm 20\%$	0.1V/100K	0.17	1.60	1.05	I
SMDT3020C-6R8MK	6.8	$\pm 20\%$	0.1V/100K	0.26	1.30	0.88	K
SMDT3020C-8R2ML	8.2	$\pm 20\%$	0.1V/100K	0.32	1.20	0.79	L
SMDT3020C-100MM	10	$\pm 20\%$	0.1V/100K	0.36	1.10	0.73	M
SMDT3020C-150MO	15	$\pm 20\%$	0.1V/100K	0.57	0.90	0.57	O
SMDT3020C-220MQ	22	$\pm 20\%$	0.1V/100K	0.89	0.74	0.40	Q
SMDT3020C-330MS	33	$\pm 20\%$	0.1V/100K	1.11	0.62	0.36	S
SMDT3020C-470MU	47	$\pm 20\%$	0.1V/100K	1.71	0.50	0.25	U
SMDT3020C-680MW	68	$\pm 20\%$	0.1V/100K	2.24	0.28	0.20	W

Note:

IDC1 : Based on inductance change ($\Delta L/L0 : \leq -30\%$) @ ambient temp. 25°C

IDC2 : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)

Rated DC Current : The less value which is IDC1 or IDC2.

Power Inductor

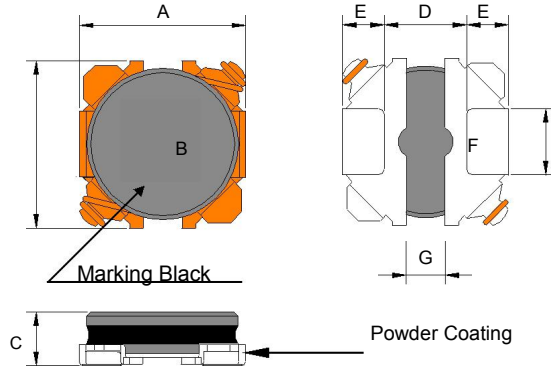
SMDT4012C-Series

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



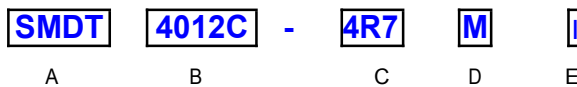
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
SMDT4012C	4.0±0.2	3.9±0.2	1.2 max.	2.1 typ.	0.96 typ.	1.6 typ.	1.1 typ.

Units: mm

3. Part Numbering



- A: Series
- B: Dimension
- C: Inductance
- D: Inductance Tolerance
- E: Marking

4R7=4.7uH
M=±20%; Y=±30%

4. Specification

TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	Rated DC Current (A)		Marking
					IDC1	IDC2	
SMDT4012C-1R0YA	1.0	±30%	0.1V/100 K	42m	2.30	1.90	A
SMDT4012C-1R5YC	1.5	±30%	0.1V/100 K	57m	1.90	1.70	C
SMDT4012C-2R2YE	2.2	±30%	0.1V/100 K	86m	1.50	1.55	E
SMDT4012C-3R3YG	3.3	±30%	0.1V/100 K	0.10	1.30	1.40	G
SMDT4012C-4R7MI	4.7	±20%	0.1V/100 K	0.13	1.10	1.25	I
SMDT4012C-6R8MK	6.8	±20%	0.1V/100 K	0.18	0.95	1.05	K
SMDT4012C-100MM	10	±20%	0.1V/100 K	0.28	0.75	0.80	M
SMDT4012C-150MO	15	±20%	0.1V/100 K	0.39	0.65	0.70	O
SMDT4012C-220MQ	22	±20%	0.1V/100 K	0.53	0.55	0.60	Q
SMDT4012C-330MS	33	±20%	0.1V/100 K	0.85	0.45	0.40	S
SMDT4012C-470MU	47	±20%	0.1V/100 K	1.14	0.38	0.35	U

Note:

IDC1 : Based on inductance change ($\Delta L/L0 : \leq -30\%$) @ ambient temp. 25°C

IDC2 : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)

Rated DC Current : The less value which is IDC1 or IDC2.

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Power Inductor

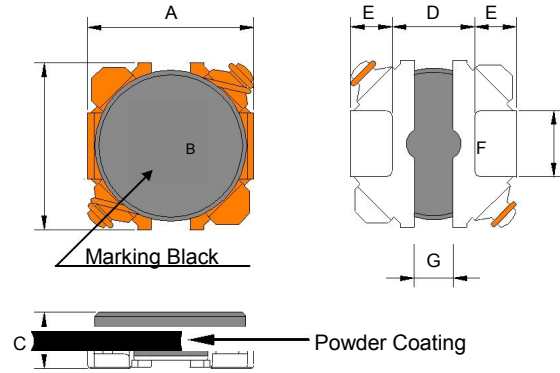
SMDT4015C-Series

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
SMDT4015C	4.0±0.2	3.9±0.2	1.5 max.	2.1 typ.	0.96 typ.	1.6 typ.	1.1 typ.

Units: mm

3. Part Numbering



- A: Series
- B: Dimension
- C: Inductance
- D: Inductance Tolerance
- E: Marking

4R7=4.7uH
M=±20%; Y=±30%

4. Specification

TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	Rated DC Current (A)		Marking
					IDC1	IDC2	
SMDT4015C-1R0YA	1.0	±30%	0.1V/100K	48m	3.60	1.85	A
SMDT4015C-1R5YC	1.5	±30%	0.1V/100K	57m	2.90	1.70	C
SMDT4015C-2R2YE	2.2	±30%	0.1V/100K	66m	2.50	1.60	E
SMDT4015C-3R3YG	3.3	±30%	0.1V/100K	94m	2.20	1.45	G
SMDT4015C-4R7MI	4.7	±20%	0.1V/100K	0.12	1.90	1.30	I
SMDT4015C-5R6MJ	5.6	±20%	0.1V/100K	0.14	1.60	1.20	J
SMDT4015C-6R8MK	6.8	±20%	0.1V/100K	0.17	1.40	1.10	K
SMDT4015C-8R2ML	8.2	±20%	0.1V/100K	0.21	1.20	1.00	L
SMDT4015C-100MM	10	±20%	0.1V/100K	0.23	1.10	0.95	M
SMDT4015C-150MO	15	±20%	0.1V/100K	0.35	0.90	0.75	O
SMDT4015C-220MQ	22	±20%	0.1V/100K	0.49	0.80	0.63	Q
SMDT4015C-330MS	33	±20%	0.1V/100K	0.71	0.60	0.85	S
SMDT4015C-470MU	47	±20%	0.1V/100K	1.08	0.55	0.50	U
SMDT4015C-680MW	68	±20%	0.1V/100K	1.65	0.40	0.40	W
SMDT4015C-820MW	82	±20%	0.1V/100K	1.88	0.35	0.30	X
SMDT4015C-101MY	100	±20%	0.1V/100K	2.46	0.33	0.25	Y

Note:

IDC1 : Based on inductance change ($\Delta L/L0 : \leq -30\%$) @ ambient temp. 25°C

IDC2 : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)

Rated DC Current : The less value which is IDC1 or IDC2.

Power Inductor

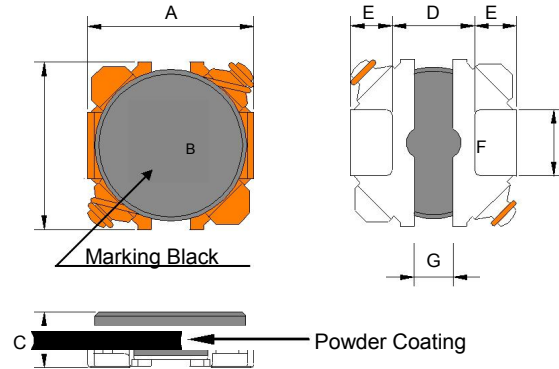
SMDT4018C-
Series

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



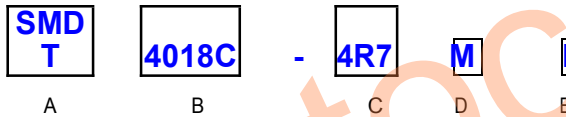
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
SMDT4018C	4.0±0.2	3.9±0.2	1.8 max.	2.1 typ.	0.96 typ.	1.6 typ.	1.1 typ.

Units: mm

3. Part Numbering



A: Series

B: Dimension

C: Inductance

D: Inductance Tolerance

E: Marking

4R7=4.7uH

M=±20%; Y=±30%

4. Specification

TOCOET Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) $\pm 20\%$	Rated DC Current (A)		Marking
					IDC1	IDC2	
SMDT4018C-R56Y7	0.56	$\pm 30\%$	0.1V/100K	41m	5.50	1.95	7
SMDT4018C-1R0YA	1.0	$\pm 30\%$	0.1V/100K	50m	4.70	1.85	A
SMDT4018C-1R5YC	1.5	$\pm 30\%$	0.1V/100K	60m	3.70	1.70	C
SMDT4018C-1R8YD	1.8	$\pm 30\%$	0.1V/100K	65m	3.40	1.65	D
SMDT4018C-2R2YE	2.2	$\pm 30\%$	0.1V/100K	74m	3.20	1.60	E
SMDT4018C-2R7YF	2.7	$\pm 30\%$	0.1V/100K	92m	2.90	1.50	F
SMDT4018C-3R3YG	3.3	$\pm 30\%$	0.1V/100K	97m	2.70	1.45	G
SMDT4018C-4R7MI	4.7	$\pm 20\%$	0.1V/100K	0.12	2.20	1.30	I
SMDT4018C-6R8MK	6.8	$\pm 20\%$	0.1V/100K	0.17	1.80	1.15	K
SMDT4018C-100MM	10	$\pm 20\%$	0.1V/100K	0.24	1.50	1.00	M
SMDT4018C-150MO	15	$\pm 20\%$	0.1V/100K	0.35	1.20	0.83	O
SMDT4018C-220MQ	22	$\pm 20\%$	0.1V/100K	0.49	1.00	0.63	Q
SMDT4018C-470MU	47	$\pm 20\%$	0.1V/100K	1.17	0.75	0.49	U
SMDT4018C-101MY	100	$\pm 20\%$	0.1V/100K	2.17	0.45	0.28	Y

Note:

IDC1 : Based on inductance change ($\Delta L/L0 : \leq -30\%$) @ ambient temp. 25°C

IDC2 : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)

Rated DC Current : The less value which is IDC1 or IDC2.

Power Inductor

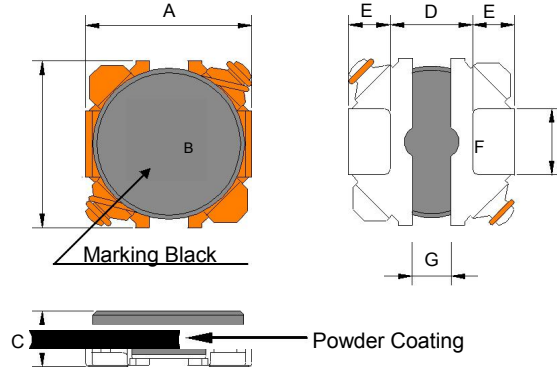
**SMDT5012C-
Series**

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



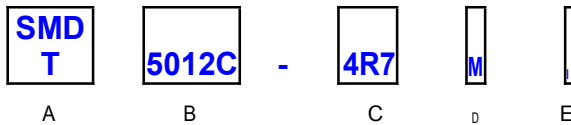
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
SMDT5012C	5.0±0.2	4.9±0.2	1.2 max.	2.7 typ.	1.16 typ.	2.0 typ.	1.5 typ.

Units: mm

3. Part Numbering



- A: Series
- B: Dimension
- C: Inductance
- D: Inductance Tolerance
- E: Marking

4R7=4.70uH
M=±20%; Y=±30%

4. Specification

TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	Rated DC Current (A)		Marking
					IDC1	IDC2	
SMDT5012C-R68Y8	0.68	±30%	0.1V/100K	39m	2.70	2.20	8
SMDT5012C-1R0YA	1.0	±30%	0.1V/100K	39m	2.50	2.20	A
SMDT5012C-1R5YC	1.5	±30%	0.1V/100K	49m	2.10	2.05	C
SMDT5012C-2R2YE	2.2	±30%	0.1V/100K	72m	1.90	1.80	E
SMDT5012C-3R3YG	3.3	±30%	0.1V/100K	83m	1.60	1.65	G
SMDT5012C-4R7MI	4.7	±20%	0.1V/100K	0.13	1.40	1.40	I
SMDT5012C-5R6MJ	5.6	±20%	0.1V/100K	0.14	1.20	1.35	J
SMDT5012C-6R8MK	6.8	±30%	0.1V/100K	0.16	1.10	1.25	K
SMDT5012C-100MM	10	±20%	0.1V/100K	0.25	0.90	1.05	M
SMDT5012C-150MO	15	±20%	0.1V/100K	0.28	0.70	0.95	O
SMDT5012C-220MQ	22	±20%	0.1V/100K	0.46	0.50	0.71	Q

Note:

- IDC1 : Based on inductance change ($\Delta L/L0 : \leq -30\%$) @ ambient temp. 25°C
- IDC2 : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)
- Rated DC Current : The less value which is IDC1 or IDC2.

Power Inductor

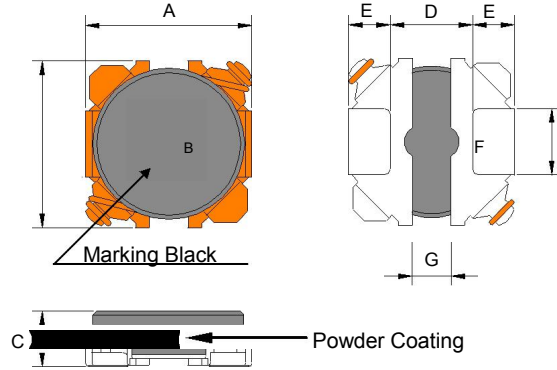
**SMDT5015C-
Series**

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
SMDT5015C	5.0±0.2	4.9±0.2	1.5 max.	2.7 typ.	1.16 typ.	2.0 typ.	1.5 typ.

Units: mm

3. Part Numbering



A: Series

B: Dimension

C: Inductance

D: Inductance Tolerance

E: Marking

4R7=4.70uH

M=±20%; Y=±30%

4. Specification

TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	Rated DC Current (A)		Marking
					IDC1	IDC2	
SMDT5015C-1R0YA	1.0	±30%	0.1V/100K	52m	3.50	2.05	A
SMDT5015C-1R5YC	1.5	±30%	0.1V/100K	61m	3.00	1.90	C
SMDT5015C-2R2YE	2.2	±30%	0.1V/100K	71m	2.50	1.75	E
SMDT5015C-3R3YG	3.3	±30%	0.1V/100K	92m	2.10	1.65	G
SMDT5015C-4R7MI	4.7	±20%	0.1V/100K	0.10	1.90	1.55	I
SMDT5015C-6R8MK	6.8	±20%	0.1V/100K	0.14	1.60	1.35	K
SMDT5015C-100MM	10	±20%	0.1V/100K	0.21	1.30	1.10	M
SMDT5015C-150MO	15	±20%	0.1V/100K	0.28	1.00	0.97	O
SMDT5015C-220MQ	22	±20%	0.1V/100K	0.40	0.80	0.79	Q
SMDT5015C-330MS	33	±20%	0.1V/100K	0.61	0.65	0.60	S
SMDT5015C-470MU	47	±20%	0.1V/100K	0.85	0.55	0.51	U

Note:

IDC1 : Based on inductance change ($\Delta L/L0 : \leq -30\%$) @ ambient temp. 25°C

IDC2 : Based on temperature rise ($\Delta T : 40^\circ\text{C typ.}$)

Rated DC Current : The less value which is IDC1 or IDC2.

Power Inductor

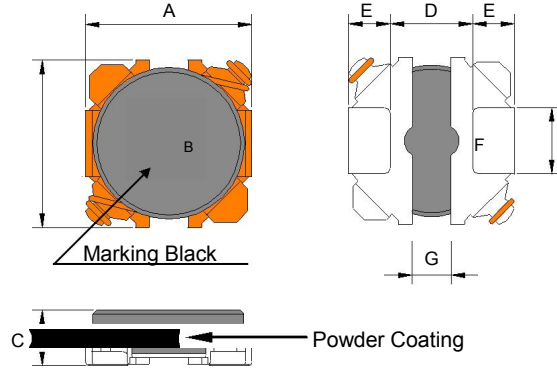
SMDT5020C-Series

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



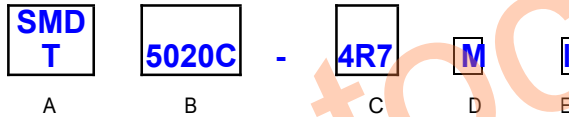
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
SMDT5020C	5.0±0.2	4.9±0.2	2.0 max.	2.7 typ.	1.16 typ.	2.0 typ.	1.5 typ.

Units: mm

3. Part Numbering



- A: Series
- B: Dimension
- C: Inductance 4R7=4.7uH
- D: Inductance Tolerance M=±20%; Y=±30%
- E: Marking

4. Specification

TOCOET Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) $\pm 20\%$	Rated DC Current (A)		Marking
					IDC1	IDC2	
SMDT5020C-1R0YA	1.0	$\pm 30\%$	0.1V/100K	48m	5.60	2.10	A
SMDT5020C-1R2YB	1.2	$\pm 30\%$	0.1V/100K	58m	4.70	1.95	B
SMDT5020C-1R5YC	1.5	$\pm 30\%$	0.1V/100K	66m	4.20	1.80	C
SMDT5020C-2R2YE	2.2	$\pm 30\%$	0.1V/100K	77m	3.40	1.70	E
SMDT5020C-3R3YG	3.3	$\pm 30\%$	0.1V/100K	89m	2.80	1.65	G
SMDT5020C-3R9YH	3.9	$\pm 30\%$	0.1V/100K	97m	2.60	1.60	H
SMDT5020C-4R7MI	4.7	$\pm 20\%$	0.1V/100K	0.11	2.40	1.50	I
SMDT5020C-5R6MJ	5.6	$\pm 20\%$	0.1V/100K	0.13	2.30	1.40	J
SMDT5020C-6R8MK	6.8	$\pm 20\%$	0.1V/100K	0.14	2.20	1.35	K
SMDT5020C-100MM	10	$\pm 20\%$	0.1V/100K	0.17	2.00	1.20	M
SMDT5020C-150MO	15	$\pm 20\%$	0.1V/100K	0.23	1.50	1.05	O
SMDT5020C-220MQ	22	$\pm 20\%$	0.1V/100K	0.35	1.20	0.85	Q
SMDT5020C-330MS	33	$\pm 20\%$	0.1V/100K	0.48	1.00	0.70	S
SMDT5020C-470MU	47	$\pm 20\%$	0.1V/100K	0.67	0.90	0.55	U

Note:

IDC1 : Based on inductance change ($\Delta L/L0 : \leq -30\%$) @ ambient temp. 25°C

IDC2 : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)

Rated DC Current : The less value which is IDC1 or IDC2.