

# Power Inductor

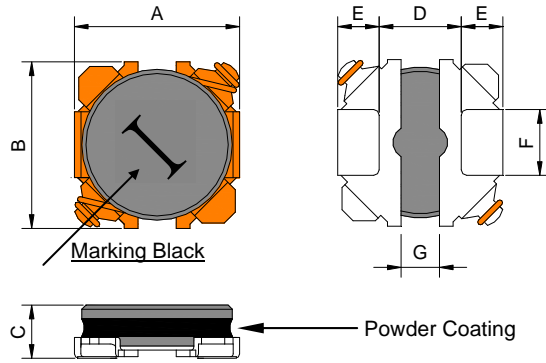
TLPC3010C-Series

## 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)
TLPC3010C	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

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) $\pm 20\%$	Rated DC Current (A)		Marking
					IDC1	IDC2	
TLPC3010C-1R0YA	1.0	$\pm 30\%$	0.1V/100K	64m	1.50	1.70	A
TLPC3010C-1R2YB	1.2	$\pm 30\%$	0.1V/100K	72m	1.30	1.60	B
TLPC3010C-1R5YC	1.5	$\pm 30\%$	0.1V/100K	86m	1.10	1.45	C
TLPC3010C-2R2YE	2.2	$\pm 30\%$	0.1V/100K	0.12	0.95	1.25	E
TLPC3010C-3R3YG	3.3	$\pm 30\%$	0.1V/100K	0.17	0.80	1.00	G
TLPC3010C-3R9YH	3.3	$\pm 30\%$	0.1V/100K	0.20	0.70	0.90	H
TLPC3010C-4R7MI	4.7	$\pm 20\%$	0.1V/100K	0.25	0.65	0.85	I
TLPC3010C-5R6MJ	5.6	$\pm 20\%$	0.1V/100K	0.30	0.60	0.78	J
TLPC3010C-6R8MK	6.8	$\pm 20\%$	0.1V/100K	0.35	0.55	0.70	K
TLPC3010C-8R2ML	8.2	$\pm 20\%$	0.1V/100K	0.40	0.50	0.65	L
TLPC3010C-100MM	10	$\pm 20\%$	0.1V/100K	0.49	0.45	0.60	M
TLPC3010C-150MO	15	$\pm 20\%$	0.1V/100K	0.68	0.38	0.50	O
TLPC3010C-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

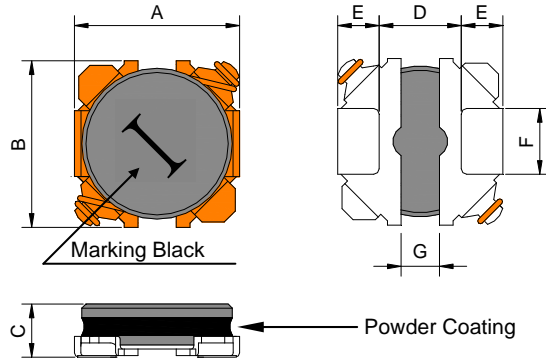
TLPC3012C-Series

## 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)
TLPC3012C	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

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) $\pm 20\%$	Rated DC Current (A)		Marking
					IDC1	IDC2	
TLPC3012C-R47Y6	0.47	$\pm 30\%$	0.1V/100K	32m	2.80	2.05	6
TLPC3012C-R56Y7	0.56	$\pm 30\%$	0.1V/100K	38m	2.50	1.95	7
TLPC3012C-R68Y8	0.68	$\pm 30\%$	0.1V/100K	44m	2.10	1.85	8
TLPC3012C-1R0YA	1.0	$\pm 30\%$	0.1V/100K	53m	1.90	1.70	A
TLPC3012C-1R2YB	1.2	$\pm 30\%$	0.1V/100K	53m	1.90	1.70	B
TLPC3012C-1R5YC	1.5	$\pm 30\%$	0.1V/100K	67m	1.70	1.55	C
TLPC3012C-2R2YE	2.2	$\pm 30\%$	0.1V/100K	93m	1.30	1.40	E
TLPC3012C-2R7YF	2.7	$\pm 30\%$	0.1V/100K	0.12	1.20	1.25	F
TLPC3012C-3R3YG	3.3	$\pm 30\%$	0.1V/100K	0.13	1.10	1.20	G
TLPC3012C-4R7MI	4.7	$\pm 20\%$	0.1V/100K	0.19	0.95	0.95	I
TLPC3012C-5R6MJ	5.6	$\pm 20\%$	0.1V/100K	0.22	0.83	0.85	J
TLPC3012C-6R8MK	6.8	$\pm 20\%$	0.1V/100K	0.26	0.80	0.80	K
TLPC3012C-100MM	10	$\pm 20\%$	0.1V/100K	0.36	0.65	0.67	M
TLPC3012C-150MO	15	$\pm 20\%$	0.1V/100K	0.53	0.55	0.56	O
TLPC3012C-220MQ	22	$\pm 20\%$	0.1V/100K	0.79	0.45	0.41	Q
TLPC3012C-330MS	33	$\pm 20\%$	0.1V/100K	1.14	0.36	0.31	S
TLPC3012C-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.

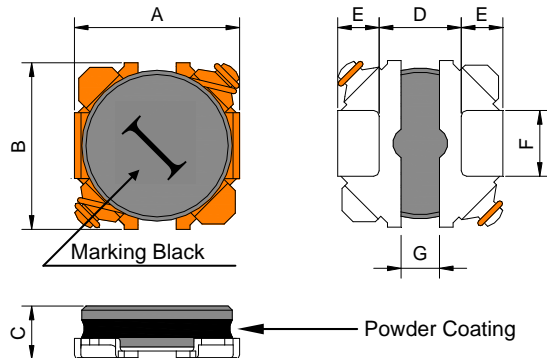
<b>Power Inductor</b>	<b>TLPC3015C-Series</b>
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**1. Features**

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)
TLPC3015C	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                      4R7=4.7uH
- D: Inductance Tolerance          M=±20%; Y=±30%
- E: Marking

## 4. Specification

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) $\pm 20\%$	Rated DC Current (A)		Marking
					IDC1	IDC2	
TLPC3015C-R68Y8	0.68	$\pm 30\%$	0.1V/100K	38m	3.40	2.00	8
TLPC3015C-1R0YA	1.0	$\pm 30\%$	0.1V/100K	44m	3.00	1.85	A
TLPC3015C-1R2YB	1.2	$\pm 30\%$	0.1V/100K	55m	2.50	1.70	B
TLPC3015C-1R5YC	1.5	$\pm 30\%$	0.1V/100K	71m	2.20	1.55	C
TLPC3015C-1R8YD	1.8	$\pm 30\%$	0.1V/100K	79m	2.00	1.45	D
TLPC3015C-2R2YE	2.2	$\pm 30\%$	0.1V/100K	99m	1.90	1.35	E
TLPC3015C-2R7YF	2.7	$\pm 30\%$	0.1V/100K	0.11	1.70	1.30	F
TLPC3015C-3R3YG	3.3	$\pm 30\%$	0.1V/100K	0.12	1.60	1.25	G
TLPC3015C-4R7MI	4.7	$\pm 20\%$	0.1V/100K	0.18	1.30	1.05	I
TLPC3015C-5R6MJ	5.6	$\pm 20\%$	0.1V/100K	0.20	1.20	1.00	J
TLPC3015C-6R8MK	6.8	$\pm 20\%$	0.1V/100K	0.22	1.10	0.95	K
TLPC3015C-8R2ML	8.2	$\pm 20\%$	0.1V/100K	0.31	1.00	0.80	L
TLPC3015C-100MM	10	$\pm 20\%$	0.1V/100K	0.33	0.95	0.75	M
TLPC3015C-150MO	15	$\pm 20\%$	0.1V/100K	0.54	0.70	0.60	O
TLPC3015C-220MQ	22	$\pm 20\%$	0.1V/100K	0.78	0.65	0.42	Q
TLPC3015C-330MS	33	$\pm 20\%$	0.1V/100K	1.38	0.50	0.31	S
TLPC3015C-470MU	47	$\pm 20\%$	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

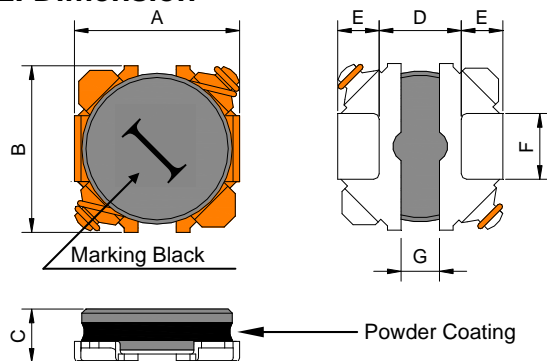
TLPC3020C-Series

## 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)
TLPC3020C	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

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) $\pm 20\%$	Rated DC Current (A)		Marking
					IDC1	IDC2	
TLPC3020C-1R0YA	1.0	$\pm 30\%$	0.1V/100K	51m	3.60	1.75	A
TLPC3020C-1R5YC	1.5	$\pm 30\%$	0.1V/100K	72m	2.90	1.55	C
TLPC3020C-2R2YE	2.2	$\pm 30\%$	0.1V/100K	89m	2.50	1.40	E
TLPC3020C-3R3YG	3.3	$\pm 30\%$	0.1V/100K	0.13	1.90	1.20	G
TLPC3020C-4R7MI	4.7	$\pm 20\%$	0.1V/100K	0.17	1.60	1.05	I
TLPC3020C-6R8MK	6.8	$\pm 20\%$	0.1V/100K	0.26	1.30	0.88	K
TLPC3020C-8R2ML	8.2	$\pm 20\%$	0.1V/100K	0.32	1.20	0.79	L
TLPC3020C-100MM	10	$\pm 20\%$	0.1V/100K	0.36	1.10	0.73	M
TLPC3020C-150MO	15	$\pm 20\%$	0.1V/100K	0.57	0.90	0.57	O
TLPC3020C-220MQ	22	$\pm 20\%$	0.1V/100K	0.89	0.74	0.40	Q
TLPC3020C-330MS	33	$\pm 20\%$	0.1V/100K	1.11	0.62	0.36	S
TLPC3020C-470MU	47	$\pm 20\%$	0.1V/100K	1.71	0.50	0.25	U
TLPC3020C-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

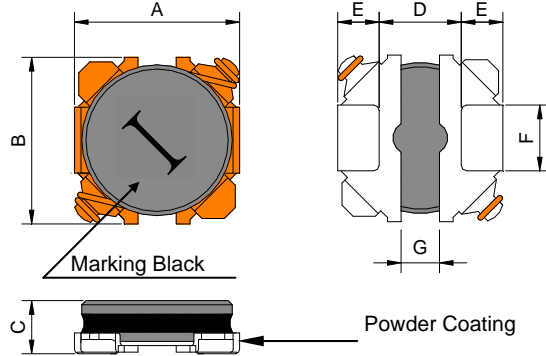
TLPC4012C-Series

## 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)
TLPC4012C	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                      4R7=4.7uH
- D: Inductance Tolerance          M=±20%; Y=±30%
- E: Marking

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	Rated DC Current (A)		Marking
					IDC1	IDC2	
TLPC4012C-1R0YA	1.0	±30%	0.1V/100K	42m	2.30	1.90	A
TLPC4012C-1R5YC	1.5	±30%	0.1V/100K	57m	1.90	1.70	C
TLPC4012C-2R2YE	2.2	±30%	0.1V/100K	86m	1.50	1.55	E
TLPC4012C-3R3YG	3.3	±30%	0.1V/100K	0.10	1.30	1.40	G
TLPC4012C-4R7MI	4.7	±20%	0.1V/100K	0.13	1.10	1.25	I
TLPC4012C-6R8MK	6.8	±20%	0.1V/100K	0.18	0.95	1.05	K
TLPC4012C-100MM	10	±20%	0.1V/100K	0.28	0.75	0.80	M
TLPC4012C-150MO	15	±20%	0.1V/100K	0.39	0.65	0.70	O
TLPC4012C-220MQ	22	±20%	0.1V/100K	0.53	0.55	0.60	Q
TLPC4012C-330MS	33	±20%	0.1V/100K	0.85	0.45	0.40	S
TLPC4012C-470MU	47	±20%	0.1V/100K	1.14	0.38	0.35	U

Note:

IDC1 : Based on inductance change ( ΔL/L0 : ≤-30% ) @ ambient temp. 25°C

IDC2 : Based on temperature rise ( ΔT : 40°C typ. )

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

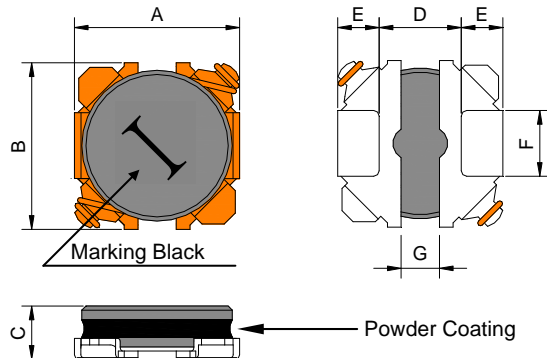
**Power Inductor** **TLPC4015C-Series**

**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)
TLPC4015C	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                      4R7=4.7uH
- D: Inductance Tolerance            M=±20%; Y=±30%
- E: Marking

## 4. Specification

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) $\pm 20\%$	Rated DC Current (A)		Marking
					IDC1	IDC2	
TLPC4015C-1R0YA	1.0	$\pm 30\%$	0.1V/100K	48m	3.60	1.85	A
TLPC4015C-1R5YC	1.5	$\pm 30\%$	0.1V/100K	57m	2.90	1.70	C
TLPC4015C-2R2YE	2.2	$\pm 30\%$	0.1V/100K	66m	2.50	1.60	E
TLPC4015C-3R3YG	3.3	$\pm 30\%$	0.1V/100K	94m	2.20	1.45	G
TLPC4015C-4R7MI	4.7	$\pm 20\%$	0.1V/100K	0.12	1.90	1.30	I
TLPC4015C-5R6MJ	5.6	$\pm 20\%$	0.1V/100K	0.14	1.60	1.20	J
TLPC4015C-6R8MK	6.8	$\pm 20\%$	0.1V/100K	0.17	1.40	1.10	K
TLPC4015C-8R2ML	8.2	$\pm 20\%$	0.1V/100K	0.21	1.20	1.00	L
TLPC4015C-100MM	10	$\pm 20\%$	0.1V/100K	0.23	1.10	0.95	M
TLPC4015C-150MO	15	$\pm 20\%$	0.1V/100K	0.35	0.90	0.75	O
TLPC4015C-220MQ	22	$\pm 20\%$	0.1V/100K	0.49	0.80	0.63	Q
TLPC4015C-330MS	33	$\pm 20\%$	0.1V/100K	0.71	0.60	0.85	S
TLPC4015C-470MU	47	$\pm 20\%$	0.1V/100K	1.08	0.55	0.50	U
TLPC4015C-680MW	68	$\pm 20\%$	0.1V/100K	1.65	0.40	0.40	W
TLPC4015C-820MW	82	$\pm 20\%$	0.1V/100K	1.88	0.35	0.30	X
TLPC4015C-101MY	100	$\pm 20\%$	0.1V/100K	2.46	0.33	0.25	Y

Note:

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

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

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

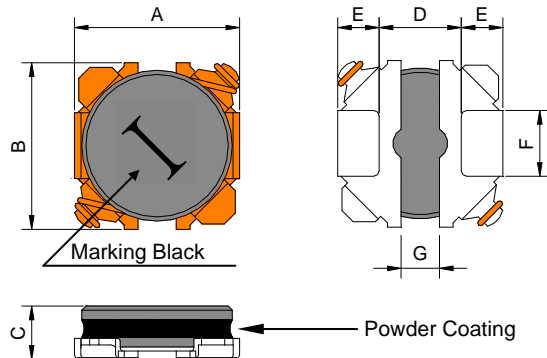
<b>Power Inductor</b>	<b>TLPC4018C-Series</b>
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### 1. Features

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)
TLPC4018C	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                      4R7=4.7uH
- D: Inductance Tolerance          M=±20%; Y=±30%
- E: Marking

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	Rated DC Current (A)		Marking
					IDC1	IDC2	
TLPC4018C-R56Y7	0.56	±30%	0.1V/100K	41m	5.50	1.95	7
TLPC4018C-1R0YA	1.0	±30%	0.1V/100K	50m	4.70	1.85	A
TLPC4018C-1R5YC	1.5	±30%	0.1V/100K	60m	3.70	1.70	C
TLPC4018C-1R8YD	1.8	±30%	0.1V/100K	65m	3.40	1.65	D
TLPC4018C-2R2YE	2.2	±30%	0.1V/100K	74m	3.20	1.60	E
TLPC4018C-2R7YF	2.7	±30%	0.1V/100K	92m	2.90	1.50	F
TLPC4018C-3R3YG	3.3	±30%	0.1V/100K	97m	2.70	1.45	G
TLPC4018C-4R7MI	4.7	±20%	0.1V/100K	0.12	2.20	1.30	I
TLPC4018C-6R8MK	6.8	±20%	0.1V/100K	0.17	1.80	1.15	K
TLPC4018C-100MM	10	±20%	0.1V/100K	0.24	1.50	1.00	M
TLPC4018C-150MO	15	±20%	0.1V/100K	0.35	1.20	0.83	O
TLPC4018C-220MQ	22	±20%	0.1V/100K	0.49	1.00	0.63	Q
TLPC4018C-470MU	47	±20%	0.1V/100K	1.17	0.75	0.49	U
TLPC4018C-101MY	100	±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

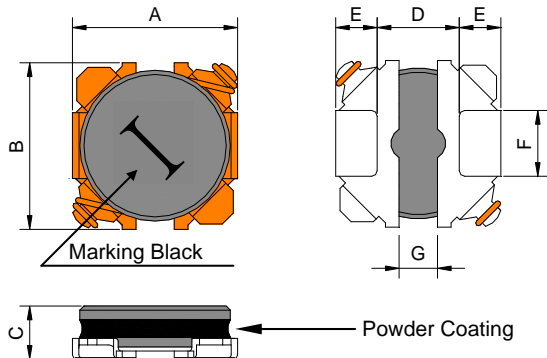
TLPC5012C-Series

## 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)
TLPC5012C	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                      4R7=4.70uH
- D: Inductance Tolerance          M=±20%; Y=±30%
- E: Marking

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	Rated DC Current (A)		Marking
					IDC1	IDC2	
TLPC5012C-R68Y8	0.68	±30%	0.1V/100K	39m	2.70	2.20	8
TLPC5012C-1R0YA	1.0	±30%	0.1V/100K	39m	2.50	2.20	A
TLPC5012C-1R5YC	1.5	±30%	0.1V/100K	49m	2.10	2.05	C
TLPC5012C-2R2YE	2.2	±30%	0.1V/100K	72m	1.90	1.80	E
TLPC5012C-3R3YG	3.3	±30%	0.1V/100K	83m	1.60	1.65	G
TLPC5012C-4R7MI	4.7	±20%	0.1V/100K	0.13	1.40	1.40	I
TLPC5012C-5R6MJ	5.6	±20%	0.1V/100K	0.14	1.20	1.35	J
TLPC5012C-6R8MK	6.8	±30%	0.1V/100K	0.16	1.10	1.25	K
TLPC5012C-100MM	10	±20%	0.1V/100K	0.25	0.90	1.05	M
TLPC5012C-150MO	15	±20%	0.1V/100K	0.28	0.70	0.95	O
TLPC5012C-220MQ	22	±20%	0.1V/100K	0.46	0.50	0.71	Q

Note:

IDC1 : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

IDC2 : Based on temperature rise (ΔT : 40°C typ.)

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

# Power Inductor

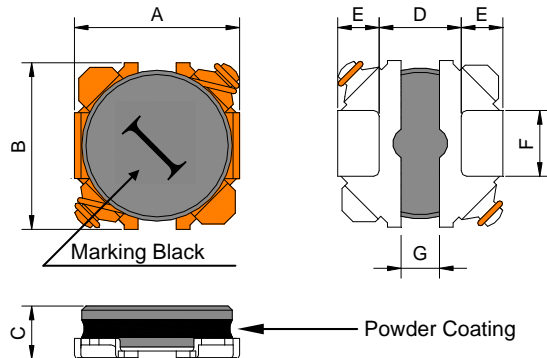
TLPC5015C-Series

## 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)
TLPC5015C	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                      4R7=4.70uH
- D: Inductance Tolerance          M=±20%; Y=±30%
- E: Marking

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	Rated DC Current (A)		Marking
					IDC1	IDC2	
TLPC5015C-1R0YA	1.0	±30%	0.1V/100K	52m	3.50	2.05	A
TLPC5015C-1R5YC	1.5	±30%	0.1V/100K	61m	3.00	1.90	C
TLPC5015C-2R2YE	2.2	±30%	0.1V/100K	71m	2.50	1.75	E
TLPC5015C-3R3YG	3.3	±30%	0.1V/100K	92m	2.10	1.65	G
TLPC5015C-4R7MI	4.7	±20%	0.1V/100K	0.10	1.90	1.55	I
TLPC5015C-6R8MK	6.8	±20%	0.1V/100K	0.14	1.60	1.35	K
TLPC5015C-100MM	10	±20%	0.1V/100K	0.21	1.30	1.10	M
TLPC5015C-150MO	15	±20%	0.1V/100K	0.28	1.00	0.97	O
TLPC5015C-220MQ	22	±20%	0.1V/100K	0.40	0.80	0.79	Q
TLPC5015C-330MS	33	±20%	0.1V/100K	0.61	0.65	0.60	S
TLPC5015C-470MU	47	±20%	0.1V/100K	0.85	0.55	0.51	U

Note:

IDC1 : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

IDC2 : Based on temperature rise (ΔT : 40°C typ.)

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

# Power Inductor

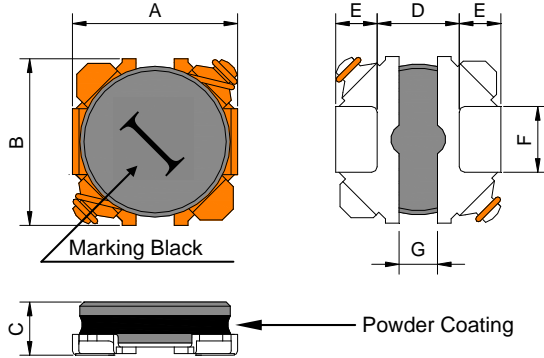
TLPC5020C-Series

## 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)
TLPC5020C	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

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) $\pm 20\%$	Rated DC Current (A)		Marking
					IDC1	IDC2	
TLPC5020C-1R0YA	1.0	$\pm 30\%$	0.1V/100K	48m	5.60	2.10	A
TLPC5020C-1R2YB	1.2	$\pm 30\%$	0.1V/100K	58m	4.70	1.95	B
TLPC5020C-1R5YC	1.5	$\pm 30\%$	0.1V/100K	66m	4.20	1.80	C
TLPC5020C-2R2YE	2.2	$\pm 30\%$	0.1V/100K	77m	3.40	1.70	E
TLPC5020C-3R3YG	3.3	$\pm 30\%$	0.1V/100K	89m	2.80	1.65	G
TLPC5020C-3R9YH	3.9	$\pm 30\%$	0.1V/100K	97m	2.60	1.60	H
TLPC5020C-4R7MI	4.7	$\pm 20\%$	0.1V/100K	0.11	2.40	1.50	I
TLPC5020C-5R6MJ	5.6	$\pm 20\%$	0.1V/100K	0.13	2.30	1.40	J
TLPC5020C-6R8MK	6.8	$\pm 20\%$	0.1V/100K	0.14	2.20	1.35	K
TLPC5020C-100MM	10	$\pm 20\%$	0.1V/100K	0.17	2.00	1.20	M
TLPC5020C-150MO	15	$\pm 20\%$	0.1V/100K	0.23	1.50	1.05	O
TLPC5020C-220MQ	22	$\pm 20\%$	0.1V/100K	0.35	1.20	0.85	Q
TLPC5020C-330MS	33	$\pm 20\%$	0.1V/100K	0.48	1.00	0.70	S
TLPC5020C-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.