

Power Inductors

Wirewound Inductors

Large Current Inductors

► Preview

Token four pin terminals flexible design Surface Mount Wirewound Inductor constructs with four terminal pin type which gives a flexible design as inductors or transformers (SEPIC, ZETA circuit, etc).

Provide wide inductance range from 6.8 μ H to 100.00 μ H, low direct current resistance (DCR) down to 26m Ω , and large current up to IDC 5.0A. These devices are directly connected electrode on ferrite core with excellent property and high saturation for surface mounting.

Token enhances surface mount inductor (TPSRH124B/125B/127B) family series covering complete footprint with profile from 1.8 mm to 8.0 mm, inductance from 1.00 μ to 1000.00 μ , low DCR, and Rated Current up to 10.0A.

Token (TPSRH124B/125B/127B) with wire wound and magnetically shielded construction offers a variety of characteristics and high performance. Customers can select the optimum characteristics by choosing from footprint, DCR, and a wide range of inductance values and tolerances with some types offering magnetic shielding.

The series is lead-free and RoHS compliant. Application of specific designs also available including different inductance and frequency specifications adjusted to requirements. Please contact our sales for more information.

Selection Quick View :

- TPSRH124B: (12.2x12.2x4.7 mm); 6.8 μ H pin(2-4);
DCR Max. 733m Ω pin(3-1), Max. 26m Ω pin(2-4);
IDC 5.0A pin(2-4), 0.65A pin(3-1).
- TPSRH125B: (12.2x12.2x6.2 mm); 22 μ H pin(2-4), pin(1-3);
DCR Max. 107m Ω pin(1-3);
IDC 2.3A pin(2-4), 2.3A pin(3-1).
- TPSRH127B: (12.2x12.2x8.0 mm); 100 μ H pin(1-2), pin(3-4);
DCR Max. 600m Ω pin(1-2), Max. 600m Ω pin(3-4) ;
IDC 1.7A pin(1-2), 1.7A pin(3-4).



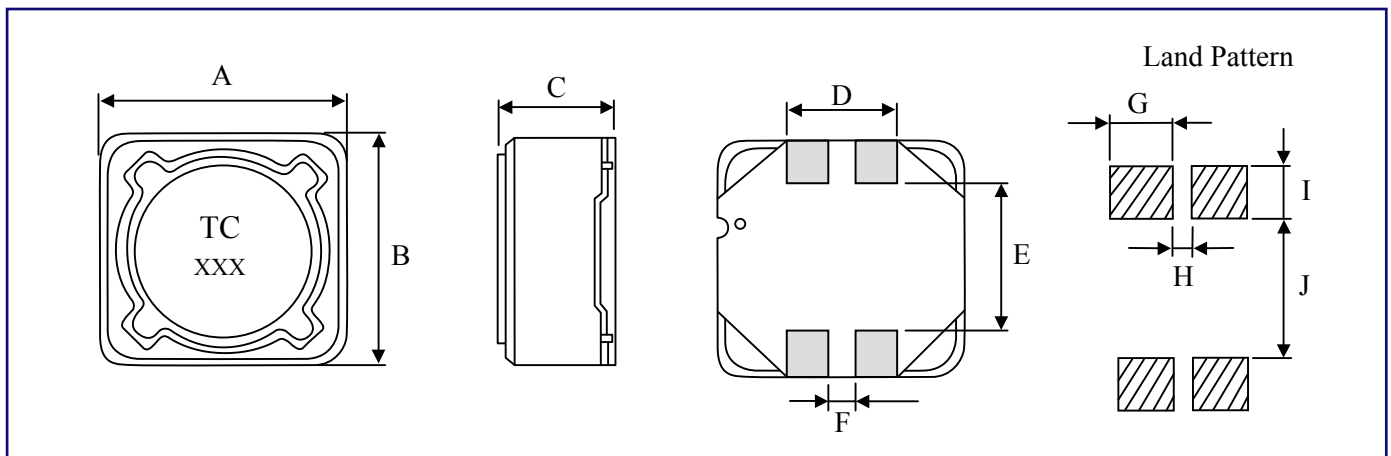
Features :

- Large Current and Low DCR.
- Magnetically shielded construction.
- 4 Terminal pin type gives a flexible design as inductors or transformers (SEPIC,ZETA circuit,etc).

Applications :

- Portable communication equipments.
- DC-DC converters, LCD television set.
- Power supplies module, Notebook, PC, DSC/DVC, PDA.

► Dimensions & Configurations (Unit: mm) (TPSRH124B, TPSRH125B, TPSRH127B)

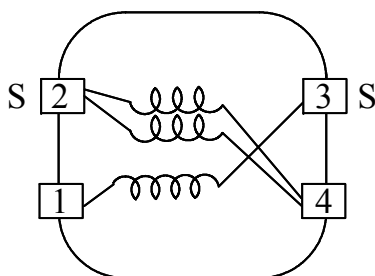


Type	A ± 0.3	B ± 0.3	C (max)	D ± 0.2	E ± 0.2	F ± 0.2	G	H	I	J
TPSRH124B	12.2	12.2	4.7	5.0	7.6	1.6	2.0	1.4	2.5	7.2
TPSRH125B	12.2	12.2	6.2	5.0	7.6	1.6	2.0	1.4	2.5	7.2
TPSRH127B	12.2	12.2	8.0	5.0	7.6	1.6	2.0	1.4	2.5	7.2

Note: Design as Customer's Requested Specifications.

▶ Winding Schematics (TPSRH124B)

Schematics (Bottom)



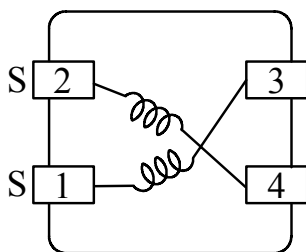
“S” is winding start.

Characteristic Name	Pin Number	Value	Measuring conditions
Inductance	(2-4)	6.8 μ H \pm 20% Within	100kHz
D.C.R.	(3-1)	Max.733m Ω (TYP.587m Ω)	At 20°C
D.C.R.	(2-4)	Max.26m Ω (TYP.21m Ω)	At 20°C
Rated current	(2-4)*	5.0A	
Rated current	(3-1)*	0.65A	

Note: This indicates the DC current at which the inductance decreases to 75% of its nominal value or D.C. current at which $\Delta t=40^{\circ}\text{C}$, whichever is lower ($T_a=20^{\circ}\text{C}$).

▶ Winding Schematics (TPSRH125B)

Schematics (Bottom)



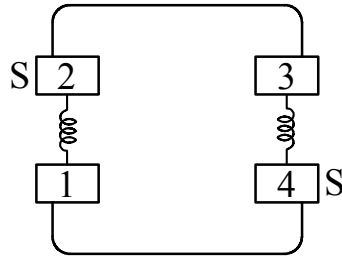
“S” is winding start.

Characteristic Name	Pin Number	Value	Measuring conditions
Inductance	(2-4)	22 μ H \pm 30% Within	1kHz
Inductance	(1-3)	22 μ H Ref.	At 20°C
D.C.R.	(1-3)	Max.107m Ω (TYP.79m Ω)	At 20°C
Rated current	(2-4)*	2.3A	
Rated current	(1-3)*	2.3A	

Note: This indicates the DC current at which the inductance decreases to 75% of its nominal value or D.C. current at which $\Delta t=40^{\circ}\text{C}$, whichever is lower ($T_a=20^{\circ}\text{C}$).

▶ Winding Schematics (TPSRH127B)

Schematics (Bottom)



“S” is winding start.

Characteristic Name	Pin Number	Value	Measuring conditions
Inductance	(1-2)	100 μ H \pm 20% Within	1kHz
Inductance	(3-4)	100 μ H \pm 20% Within	1kHz
D.C.R.	(1-2)	Max.600m Ω	At 20°C
D.C.R.	(3-4)	Max.600m Ω	At 20°C
Rated current	(1-2)*	1.7A	1kHz
Rated current	(3-4)*	1.7A	1kHz

Note: This indicates the DC current at which the inductance decreases to 75% of its nominal value or D.C. current at which $\Delta t=40^{\circ}\text{C}$, whichever is lower ($T_a=20^{\circ}\text{C}$).

▶ How to Order

TPSRH124B

❶

6R8

❷

N

❸

❶ Part Number: TPSRH124B; TPSRH125B; TPSRH127B

❷ Inductance

Code	Inductance
6R8	6.80 μ H
100	10.00 μ H

❸ Tolerance

Code	Tolerance
K	10%
L	15%
M	20%
N	30%

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