

Power High Voltage Backlight Inductors

Token SMT Power Inductors With High Breakdown Voltage For Back light Applications (TPSDBL)

► Preview

Token TPSDBL low profile series backlight inductor is specified for backlight applications, such as PDA, USB, LCD, and TFT.

Magnetically Shielded Construction to avoid radiation, Token TPSDBL features high breakdown voltage, and very low direct current resistance (DCR). The height only 2.92 mm, they have a footprint of (6.6 x 4.45 mm). The TPSDBL is constructed of high temperature materials that provide excellent heat deflection to prevent damage during solder reflow. Standard inductance values range from 100.00 μ H to 10000.00 μ H, DCR from 0.95 Ω to 74 Ω , current rating from 0.01A to 0.22A, and custom values are available on request to meet specific requirements.

Token backlight inductors are composited with heat resistant materials and flat top designed for easy pick and place assembly for reflow operation. Ultra miniature size is suitable for high density mounting.

The TPSDBL series are RoHS compliant with Pb-free terminations. Token will also produce devices outside these specifications to meet specific customer requirements, please contact our sales for more information.

Inductor Selecting Factors :

- TPS1608DBL 100.00 μ H ~ 10000.00 μ H; 0.01A ~ 0.22A.
- Electrical specifications at 25°C.

Features :

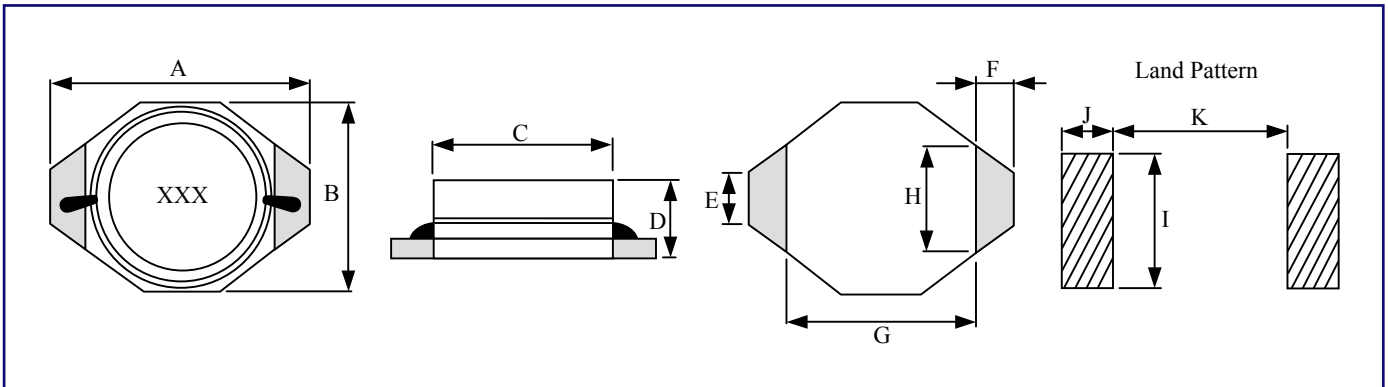
- Magnetically shielded construction gainst radiation.
- Compact Size, High Breakdown Voltage.
- Operating temperature range: -40°C ~ +85°C

Applications :

- Back Light Applications : PDA, USB, LCD, TFT.



▶ (TPS1608DBL) Dimensions & Configurations (Unit: mm)



Type	A(max)	B(max)	C±0.3	D(max)	E±0.3	F±0.3	G±0.3	H±0.3	I	J	K
TPS1608DBL	6.60	4.45	4.00	2.92	1.27	1.02	4.32	2.50	3.56	1.40	4.06

Note: Design as Customer's Requested Specifications.

▶ (TPS1608DBL) Electrical Characteristics

Part Number	Inductance (μH)	Test Freq. (KHz)	Insulation core-winding	DCR (Ω) (max)	Current (A) (max)
TPS1608DBL - 101M	100.00	100	>10	0.950	0.22
TPS1608DBL - 151M	150.00	100	>10	1.400	0.20
TPS1608DBL - 221M	220.00	100	>10	1.700	0.18
TPS1608DBL - 331M	330.00	100	>10	2.200	0.16
TPS1608DBL - 471M	470.00	100	>10	3.800	0.14
TPS1608DBL - 681M	680.00	100	>10	4.900	0.12
TPS1608DBL - 102M	1000.00	100	>10	9.000	0.10
TPS1608DBL - 152M	1500.00	100	>10	11.000	0.08
TPS1608DBL - 222M	2200.00	100	>10	19.000	0.05
TPS1608DBL - 332M	3300.00	100	>10	24.000	0.04
TPS1608DBL - 472M	4700.00	100	>10	30.000	0.03
TPS1608DBL - 682M	6800.00	100	>10	56.000	0.02
TPS1608DBL - 103M	10000.00	100	>10	74.000	0.01

Note: Test Freq.: 100KHz / 0.1V.

Current (max).... 30°C temperature rise.

Operating Temp.: -40°C ~ +85°C.

▶ How to Order

TPS1608DBL

❶

100

❷

M

❸

❶ Part Number: TPS1608DBL

❷ Inductance

Code	Inductance
101	100.00 μ H
102	1000.00 μ H
103	10000.00 μ H

❸ Tolerance

Code	Tolerance
M	20%
N	30%

Back to 1st Page - Power High Voltage Backlight Inductor (TPSDBL)