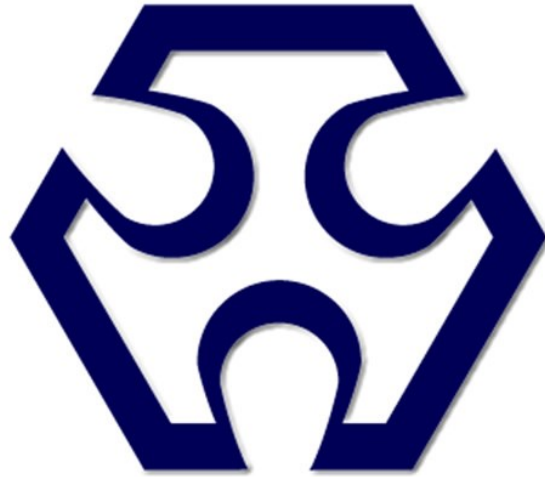


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# TOKEN

## (TPSDBL) SMD Backlight Inductor

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**▶ Product Introduction****Token SMD high voltage inductors with high breakdown voltage for back light applications.****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.

**Inductor Selecting Factors:**

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

Token (TPSDBL) low profile series 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 × 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 μH to 10000.00 μH, DCR from 0.95Ω to 74Ω, 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.

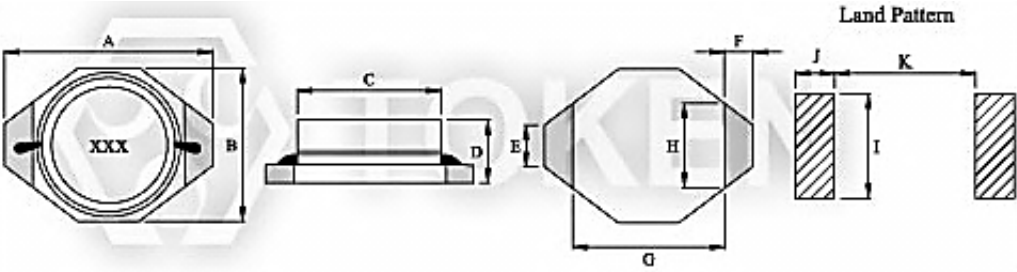
The (TPSDBL) series are RoHS compliant with Pb-free terminations. Token will also produce devices outside these specifications to meet specific customer requirements, contact us with your specific needs. For more information, please link to Token official website "[SMD Power Inductors](http://www.token.com.tw)".



## ► Dimensions & Configurations

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

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

SMT Power Backlight Inductors (TPS1608DBL) Dimensions

● Note: Design as Customer's Requested Specifications

## ► Electrical Characteristics

### Electrical Characteristics (TPS1608DBL)

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.: 100 KHz / 0.1V.  
 Current (max).... 30°C temperature rise.  
 Operating Temp.: -40°C ~ +85°C.

## Order Codes

### Order Codes (TPS1608DBL)

TPS1608DBL	-	100		M	
Part Number		Inductance		Tolerance	
TPS1608DBL		101	100.00μH	M	20%
		102	1000.00μH	N	30%
		103	10000.00μH		

## ► General Information

### How to Quickly Search Inductor for all of the Characteristics?

#### Quickly Search Inductor Finder

Searching and comparing data sheets of inductor manufacturers can be time consuming. Token's Parameter Sorting Search Mode allows selection of inductors based on different parameters.

By entering just the inductance value,

By sorting parameter to narrow down searching range,

Or by enter keyword / part number / size dimensions L\*W\*H to partial or exact searching.

### Leading-Edge Technology

Token Electronics brand passive component specializes in standard and custom solutions offering the latest in state-of-the-art low profile high power density inductor components. Token provides cost-effective, comprehensive solutions that meet the evolving needs of technology-driven markets. In working closely with the industry leaders in chipset and core development, we remain at the forefront of innovation and new technology to deliver the optimal mix of packaging, high efficiency and unbeatable reliability. Our designs utilize high frequency, low core loss materials, new and custom core shapes in combination with innovative construction and packaging to provide designers with the highest performance parts available on the market.

### Find Inductor Solutions Faster

#### Find Your Inductor - wt.moc.nekot@qfr

Only timely and accurate information can help manage the changing needs of your customers. The Token Inductor Finder puts you only a click away from all of the inductor information you need.

#### Find Your Solution - wt.moc.nekot@qfr

Selecting the correct inductor solution will not only save you time, but it will give you a competitive edge. At Token, we are committed to helping you find the most efficient alternative for your power design. Our inductor and power supply design experts can help you make that selection.

Please forward us:

- A brief description of your particular application's requirements.
- Details of an existing solution that you'd like to replace, enhance or find an alternative.
- Inquiries for feasibility to tailor a power transformer or inductor to your specific application.

We can also help you with any additional technical information you might need relating to any of our products.

**Ask Us Today**

