

# Low Profile Inductors High Current Inductors Power Inductors

## ▶ Preview

Token SMD Shielded Power Inductors Cut The Profile Down to 1.8 mm. Token TPSRH2D18A, and TPSRH3D16A are directly connected electrode on ferrite core with excellent property and high saturation for surface mounting. The TPSRH2D18A offers low profile height 2.0 mm and TPSRH3D16A height 1.8 mm with inductance range from 1.50 $\mu$ H to 33.00 $\mu$ H, low direct current resistance (DCR) down to 0.043 $\Omega$ , and large current up to IDC 1.55A.

Token enhances surface mount wirewound inductor TPSRH family series covering complete footprint with profile from 1.8 mm to 8.0 mm, inductance from 1.00  $\mu$  to 1000.00  $\mu$ , low DCR, and Rated Current up to 10.0A.

Token TPSRH 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 :

- TPSRH2D18A: (3.2x3.2x2.0 mm); 2.20 $\mu$ H ~ 33.00 $\mu$ H; DCR 0.043 $\Omega$  ~ 0.481 $\Omega$ ; IDC 0.85A ~ 0.23A.
- TPSRH3D16A: (4.0x4.0x1.8 mm); 1.50 $\mu$ H ~ 33.00 $\mu$ H; DCR 0.052 $\Omega$  ~ 0.675 $\Omega$ ; IDC 1.55A ~ 0.32A.

### Features :

- Large Current and Low DCR.
- Magnetically shielded construction.

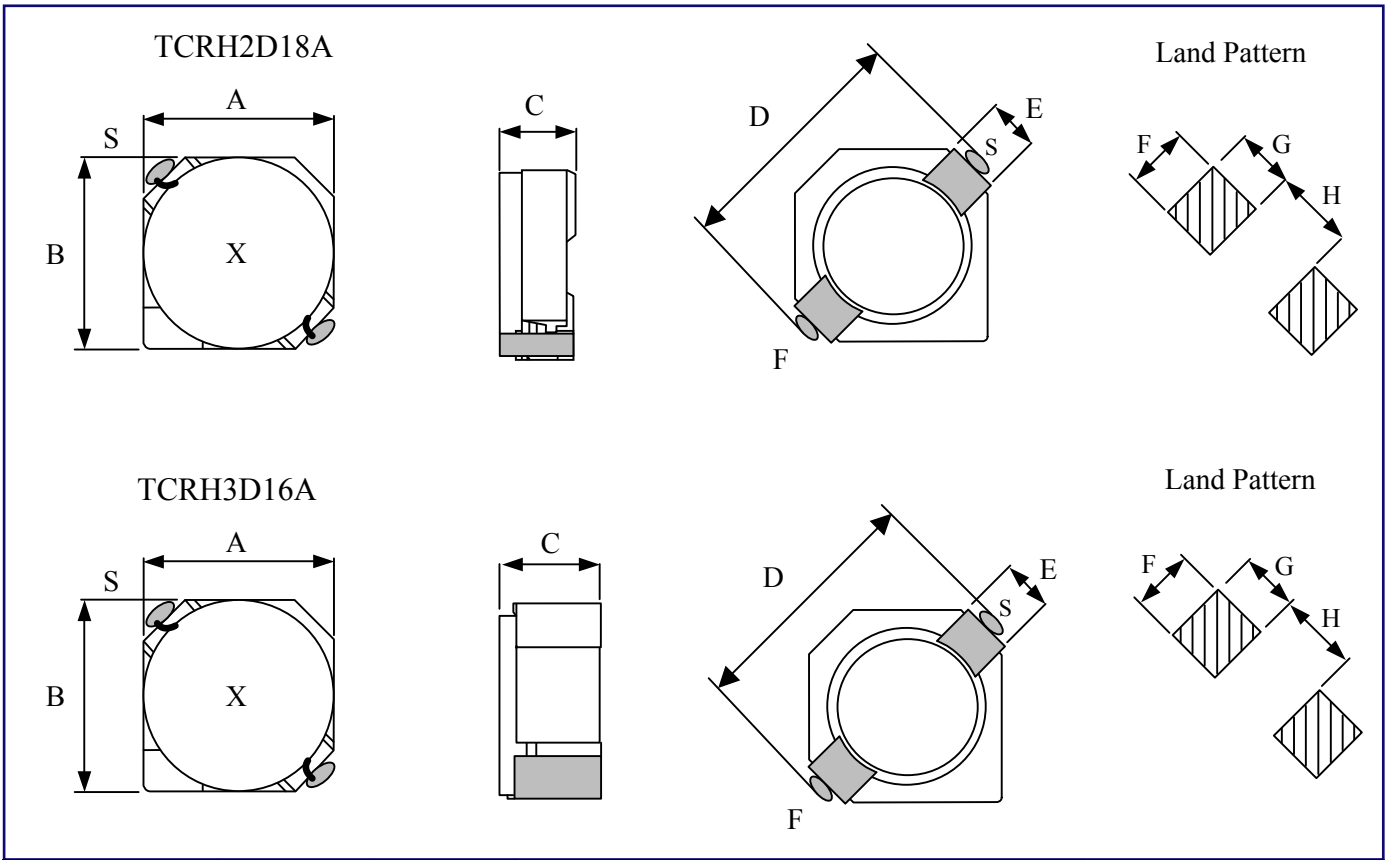
### Applications :

- Mobilephone, Notebook, PDA, MP3, DSC/DVC.
- Portable communication equipments.
- DC-DC converters, LCD television set.



[www.token.com.tw](http://www.token.com.tw)

► Dimensions & Configurations (Unit: mm) (TPSRH2D18A, TPSRH3D16A)



Type	A(max)	B(max)	C(max)	D(max)	E(Ref.)	F	G	H
TPSRH2D18A	3.2	3.2	2.0	4.3	1.0	1.3	1.3	1.7
TPSRH3D16A	4.0	4.0	1.8	5.2	1.0	1.3	1.4	2.4

**Note :** Design as Customer's Requested Specifications.

## ▶ Electrical Characteristics (TPSRH2D18A)

Part Number	MARK	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TPSRH2D18A - 2R2N	C	2.20	100	0.043	0.85
TPSRH2D18A - 3R3N	D	3.30	100	0.060	0.77
TPSRH2D18A - 4R7N	F	4.70	100	0.081	0.63
TPSRH2D18A - 6R8N	I	6.80	100	0.108	0.57
TPSRH2D18A - 100N	K	10.00	100	0.201	0.45
TPSRH2D18A - 150N	M	15.00	100	0.227	0.35
TPSRH2D18A - 220N	O	22.00	100	0.331	0.30
TPSRH2D18A - 330N	Q	33.00	100	0.481	0.23

**Note:** Test Freq.: 100KHz / 0.1V.  
 Operating Temp.: -40°C ~ +85°C.  
 Inductance drop=35% typ. at IDC.

## ▶ Electrical Characteristics (TPSRH3D16A)

Part Number	Inductance (μH)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
TPSRH3D16A - 1R5N	1.50	100	0.052	1.55
TPSRH3D16A - 2R2N	2.20	100	0.072	1.20
TPSRH3D16A - 3R3N	3.30	100	0.085	1.10
TPSRH3D16A - 4R7N	4.70	100	0.105	0.90
TPSRH3D16A - 6R8N	6.80	100	0.170	0.73
TPSRH3D16A - 100N	10.00	100	0.210	0.55
TPSRH3D16A - 150N	15.00	100	0.295	0.45
TPSRH3D16A - 220N	22.00	100	0.430	0.40
TPSRH3D16A - 330N	33.00	100	0.675	0.32

**Note:** Test Freq.: 100KHz / 0.1V.  
 Operating Temp.: -40°C ~ +85°C.  
 Inductance drop=35% typ. at IDC.

## ▶ How to Order

TPSRH2D18A

❶

1R5

❷

N

❸

❶ Part Number: TPSRH2D18A; TPSRH3D16A

❷ Inductance

Code	Inductance
1R5	1.50 $\mu$ H
100	10.00 $\mu$ H

❸ Tolerance

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

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