

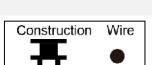
# **Drum Dip Inductor** TGSI1006 Series











#### **Outline:**

- Small footprint power inductors designed for maximum efficiency And low cost
- Industry-standard pin spacings; protective PVC sleeve is available for extra demand
- In addition to the standard versions of inductors shown here custom inductors are available to meet your exact requirements

#### Features:

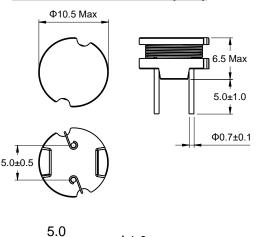
- Core material:Ferrite
- Enviromental: RoHS, Reach compliant, Halogen free
- Weight: 1.885g
- Moisture Sensitivity:Level (MSL) 1 (unlimited floor life at <30° C /85% relative humidity).
- Operating temperature range: -40°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+125°C

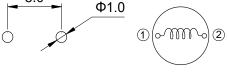
### Application:

- Ideal for noise filtering in power amplifiers, power supplies and Speaker crossoner networks.
- buck converter, network communication equipment, and etc

#### 1 Electrical Characteristics Inductance D.C.R. $(m\Omega)$ Isat Irms Part No. $(\mu H) \times 1$ (A) × 2 (A) **%**3 Typical Max Typical Typical 34.8 41.7 TGSI1006-100K 10.0±10% 7.70 3.67 TGSI1006-120K 12.0±10% 38.0 45.6 6.80 3.51 TGSI1006-150K 15.0±10% 48.1 57.7 6.50 3.12 TGSI1006-180K 18.0±10% 66.2 55.2 6.00 2.92 TGSI1006-220K 22.0±10% 73.8 88.6 5.40 2.52 TGSI1006-270K 27.0±10% 87.5 105 4.95 2.32 TGSI1006-330K 33.0±10% 98.3 4.60 118 2.18 TGSI1006-390K 39.0±10% 113 136 4.00 2.03 TGSI1006-470K 47.0±10% 140 168 3.60 1.83 TGSI1006-560K 56.0±10% 159 191 3.40 1.72 TGSI1006-680K 68.0±10% 194 233 3.00 1.55 TGSI1006-820K 82.0±10% 268 2.80 1.45 223 TGSI1006-101K 100±10% 293 351 2.40 1.27 TGSI1006-121K 120±10% 328 394 2.20 1.20 TGSI1006-151K 150±10% 407 488 2.10 1.07 TGSI1006-181K 180±10% 523 628 1.85 0.95 220±10% TGSI1006-221K 606 727 1.75 0.88 TGSI1006-271K 270±10% 779 935 1.56 0.78 TGSI1006-331K 330±10% 924 1,109 1.36 0.71 TGSI1006-391K 390±10% 1,055 1,266 1.30 0.67 TGSI1006-471K 470±10% 1,310 1,572 1.15 0.60 TGSI1006-561K 560±10% 1,534 1,840 1.08 0.55 TGSI1006-681K 680±10% 1,769 2,123 0.98 0.51 TGSI1006-821K 820±10% 2,283 2,740 0.88 0.45 TGSI1006-102K 2,634 1,000±10% 3,161 0.77 0.42

### 2 Product Dimensions (mm)





Typical Hole Pattern Schematic

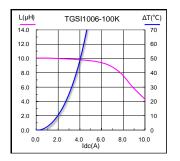
#### All data is tested on 25°C ambient temperature

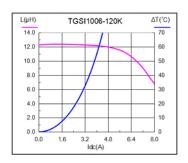
- 1.If the inductance is smaller than 1mH,can be measured at 100kHz,0.1V,otherwise at 10kHz,0.25V
- 2.Isat:the actual value of DC current when the Inductance decrease 20% of its initial value
- 3. Irms:the actual value of DC current when the the temperature rise is ΔT40°C(Ta=25°C)

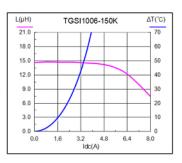
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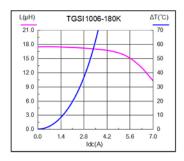


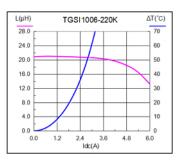
## 3 Saturation Current vs Temperature Rise Current Curve

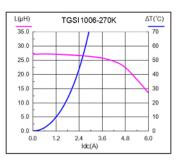


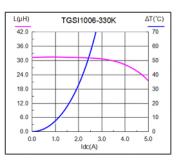


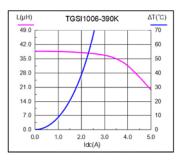


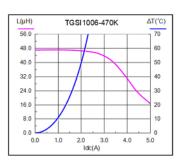


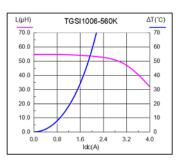


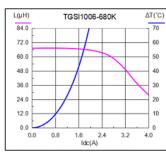


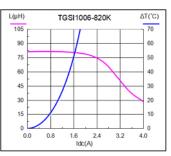


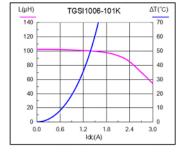


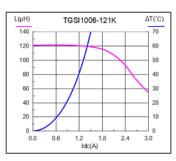


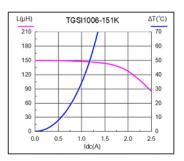


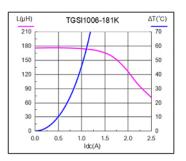


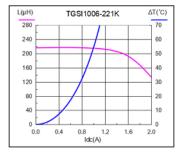


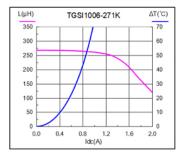


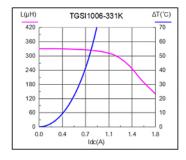


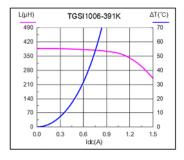








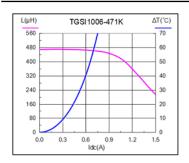


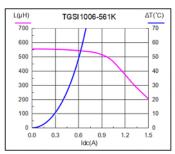


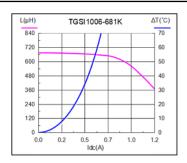
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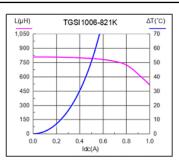


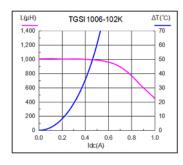
# Drum Dip Inductor TGSI1006 Series









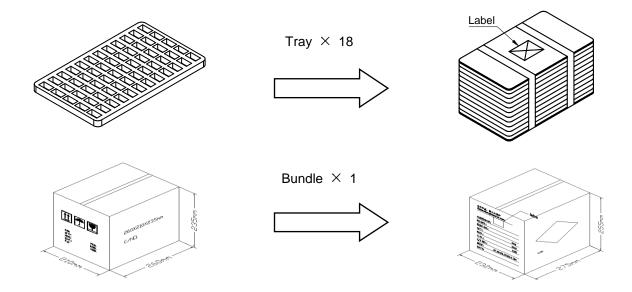


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### 4 Packing Specification

### 4.1 Packing(mm)



### 4.2 Carton Dimensions and Packing Quantity

■ Inner Carton: 260×210×235mm ■ Out Carton: 275×232×255mm

Product Series	Quantity / Tray	Inner Carton Quantity	Out Carton Quantity
TGSI1006	120pcs	(120×18) = 2160pcs	(2160×1) = 2160pcs

### 4.3 Label Making

The following items will be marked on the tray of product label and shipping label.

Production Label	Shipping Label
■ Packing No.	■ Packing No.
■ Quantity	■ Quantity
■Shipment Date	■Shipment Date
■ Part No.	■ Part No.
■Customer Part No.	■Customer Part No.
■ Customer Po No.	■ Customer Po No.

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### 5 otice of Use

- 5.1 Special remind: Circuit design, component placement, PCB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.
- 5.2 Product in packing storage condition:temperature 5~40°C, RH≤70%.

  If taking out for use, the remaining products should be sealed in plastic bags and preserved in accordance with the above conditions, to avoid oxidation of terminals (electrodes), affecting soldering status.
- 5.3 A storage of Codaca Electronic products for longer than 12 months is not recommended, Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- 5.4 Do not keep products in unsuitable storage conditions, such as areas susceptible to high temperatures, high humidity, dust or corrosion.
- 5.5 Always handle products with care.

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- 5.6 Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering.
- 5.7 When this product will be used on a similar or new project to the original one, sometimes it might be unable to satisfy the specifications due to different condition of usage.
- 5.8 This inductor itself does not have any protective function in abnormal condition, such as overload, short-circuit, open-circuit conditions, etc. Therefore, it shall be confirmed that there is no risk of smoke, fire, dielectric withstand voltage, insulation resistance, etc., or use in abnormal conditions protective devicesor protection circuit in the end product.
- 5.9 Hi-Pot test with higher voltage than spec value will damage insulating material and shorten its life.
- 5.10 If using in potting compound, the magnet wire coating might be damaged, please consult with us.
- 5.11 Refrain from rinsing coils. If necessary, please consult with us.

Reviesd: 07/14/2020