

Drum Dip Inductor TGSI0805 Series



Wire

Construction



- 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:

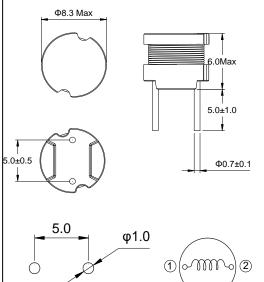
- Core material:Ferrite
- Environmental: RoHS, Reach compliant, Halogen free
- Weight:1.25g
- Moisture Sensitivity:Level (MSL) 1 (unlimited floor life at <30° C /85% relative humidity).
- Operating temperature range: -40°C∼+125°C (including coil's self temperature rise)
- Storage temperature range: -40°C∼+125°C

Application:

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

Electrical Characteristics					
Part No.	Inductance (µH)%1	D.C.R. (mΩ)		Isat _ (A)※2	Irms (A) ※3
		Typical	Max	Typical	Typical
TGSI0805-100K	10.0	46.0	55	4.59	3.12
TGSI0805-120K	12.0	53.0	64	4.19	2.87
TGSI0805-150K	15.0	70.2	84	3.70	2.52
TGSI0805-180K	18.0	78.9	95	3.40	2.42
TGSI0805-220K	22.0	94.0	113	3.09	2.19
TGSI0805-270K	27.0	112	135	2.79	2.00
TGSI0805-330K	33.0	129	155	2.52	1.86
TGSI0805-390K	39.0	151	181	2.32	1.72
TGSI0805-470K	47.0	203	244	2.12	1.48
TGSI0805-560K	56.0	228	274	1.94	1.40
TGSI0805-680K	68.0	268	322	1.76	1.28
TGSI0805-820K	82.0	328	394	1.60	1.16
TGSI0805-101K	100	375	450	1.45	1.04
TGSI0805-121K	120	452	542	1.32	0.99
TGSI0805-151K	150	568	682	1.18	0.89
TGSI0805-181K	180	701	841	1.08	0.82
TGSI0805-221K	220	822	1,002	1.00	0.73
TGSI0805-271K	270	1,056	1,267	0.88	0.65
TGSI0805-331K	330	1,205	1,567	0.80	0.60
TGSI0805-391K	390	1,380	1,656	0.73	0.55
TGSI0805-471K	470	1,590	1,908	0.70	0.52
TGSI0805-561K	560	2,389	2,867	0.61	0.43
TGSI0805-681K	680	2,730	3,276	0.56	0.40
TGSI0805-821K	820	3,153	3,783	0.51	0.38
TGSI0805-102J	1,00	3,610	4,332	0.45	0.35
TGSI0805-222J	2200	7,800	9,360	0.32	0.22
TGSI0805-472J	4700	17,47	20,96	0.21	0.16

2 Product Dimensions (mm)



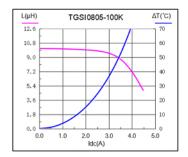
Typical Hole Pattern Schematic

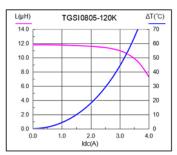
All data is tested on 25°C ambient temperature

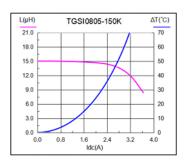
- 1.If the inductance is smaller than 1mH,can be measured at 100kHz,0.1V,otherwise at 10kHz,0.25V
- 2.Isat:the actual value of DC current when the Inductance decrease 20% of its initial value
- 3. Irms:the actual value of DC current when the the temperature rise is $\Delta T40^{\circ}C(Ta=25^{\circ}C)$

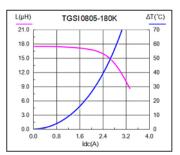


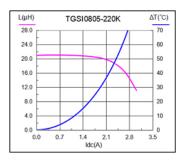
3 Saturation Current vs Temperature Rise Current Curve

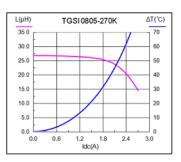


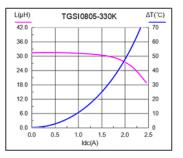


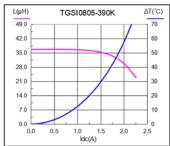


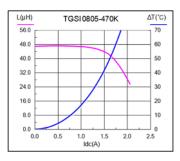


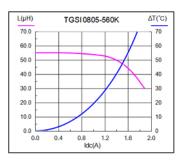


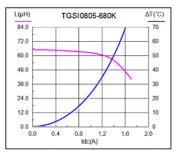


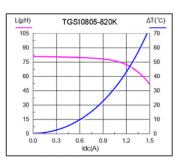


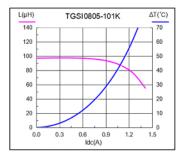


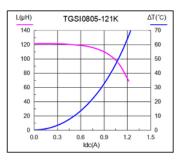


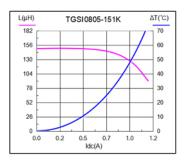


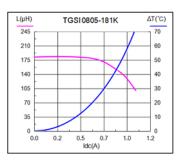


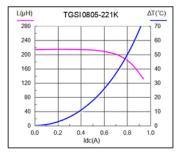


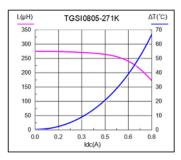


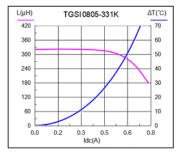


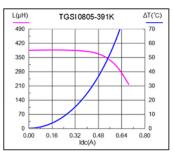






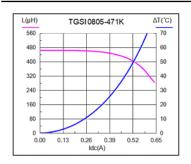


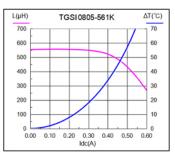


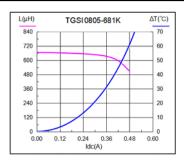


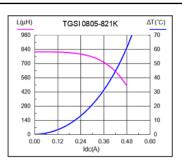


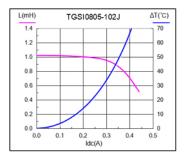
Drum Dip Inductor TGSI0805 Series

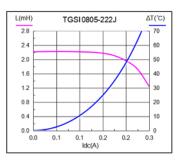


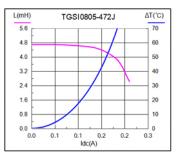








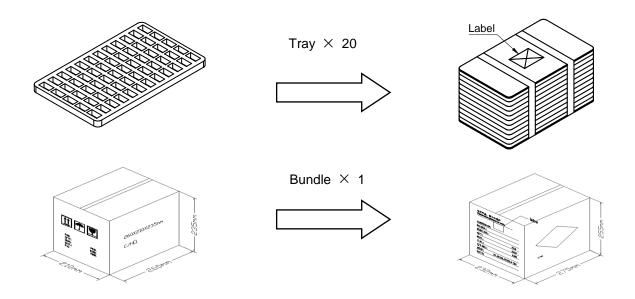






4 Packing Specification

4.1 Packing(mm)



4.2 Carton Dimensions and Packing Quantity

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

Product Series	Quantity / Bag	Inner Carton Quantity	Out Carton Quantity
TGSIS0805	140pcs	(140×20) = 2800pcs	(2800×1) = 2800pcs

4.3 Label Making

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

Production Label ■ Packing No.	Shipping Label ■ 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.