

Outline:

- Small footprint power inductors designed for maximum efficiency And low cost
- possible to decrease reflection noise
- Accomplished low total harmonics distortion
- 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: 3.85g
- 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

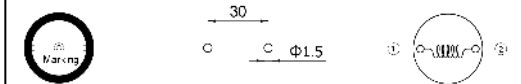
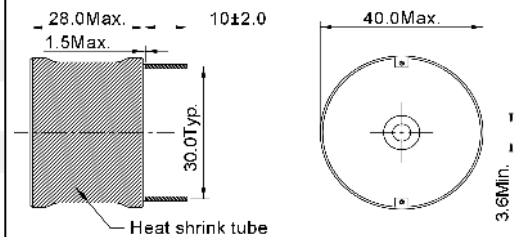
Application:

- Suitable for digital power amplifier
- Best suited as a choke coil for power supply
- Audio Visual/Mini component/AV amplifier/Amplifier for professional

1 Electrical Characteristics

Part No.	Inductance (μ H)※1	D.C.R. (m Ω)		Isat (A)※2	Irms (A) ※3
		Typical	Max		
TGHG3525T-102K	1000 \pm 10%	235	282	8.00	3.65
TGHG3525T-222K	2200 \pm 10%	380	456	5.80	3.33
TGHG3525T-332K	3300 \pm 10%	589	707	4.60	2.93
TGHG3525T-472K	4700 \pm 10%	1190	1428	3.90	2.06
TGHG3525T-562K	5600 \pm 10%	1220	1464	3.60	2.02

2 Product Dimensions (mm)



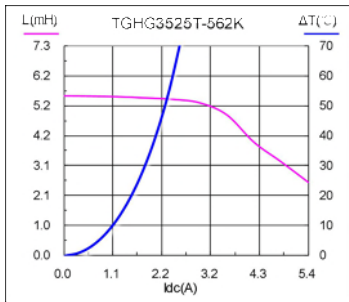
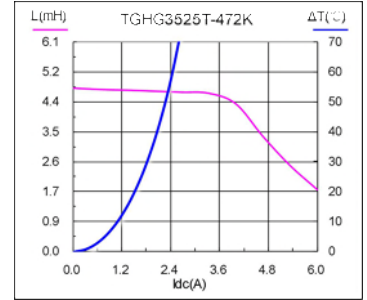
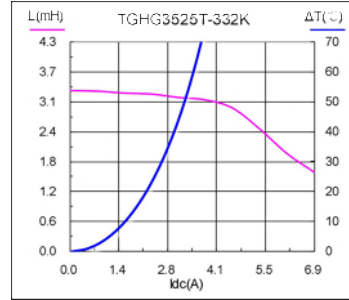
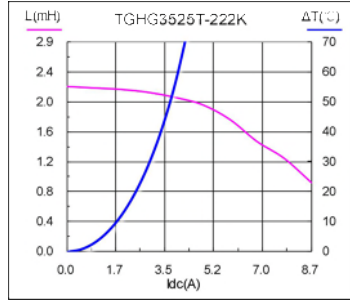
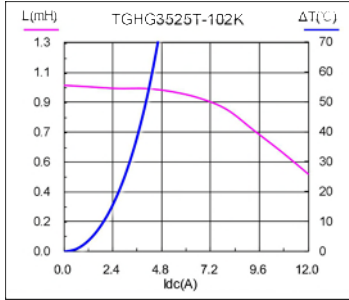
Typical Hole Pattern

Schematic

All data is tested on 25°C ambient temperature

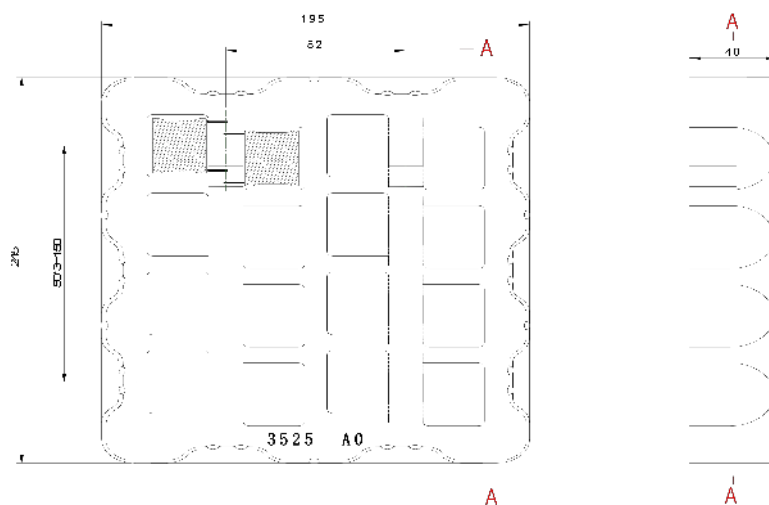
1. Inductance measure condition at 1kHz, 0.25V
2. Isat: the actual value of DC current when the Inductance decrease 20% of its initial value
3. Irms: the actual value of DC current when the the temperature rise is $\Delta T 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$)

3 Saturation Current vs Temperature Rise Current Curve



4 Packing Specification

4.1 Packing



4.2 Carton Dimensions and Packing Quantity

■ Inner Carton: 260×205×55mm

■ Out Carton : 275×232×261mm

Product Series	Quantity / Bag	Inner Carton Quantity	Out Carton Quantity
TGHG3525T	16pcs	(16×1) = 16pcs	(16×4) = 64pcs

4.3 Label Making

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

Production Label

- Packing No.
- Quantity
- Shipment Date
- Part No.
- Customer Part No.
- Customer Po No.

Shipping Label

- Packing No.
- Quantity
- Shipment Date
- Part No.
- Customer Part No.
- Customer Po No.

5 Notice 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 $5\sim 40^{\circ}\text{C}$, $\text{RH}\leq 70\%$.
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.
- 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 devices or 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.