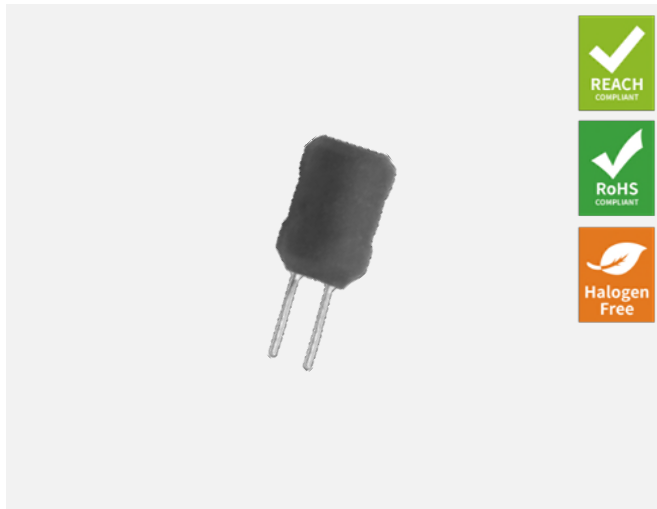


Outline:

- Small footprint power inductors designed for maximum efficiency And low cost
- Industry-standard pin spacings; protective PVC sleeve
- 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: 3.37g
- 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

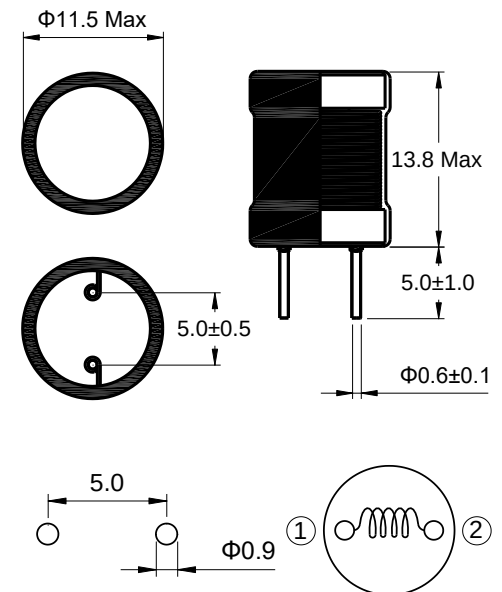
Application:

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

1 Electrical Characteristics

Part No.	Inductance (μ H)※1	D.C.R. (m Ω)		Isat (A)※2	I _{rms} (A) ※3
		Typical	Max		
TGKH0912-100K	10.0	17.7	21.2	4.80	5.60
TGKH0912-120K	12.0	19.1	22.9	4.70	5.37
TGKH0912-150K	15.0	22.4	26.9	4.40	4.96
TGKH0912-180K	18.0	25.3	30.4	4.10	4.73
TGKH0912-220K	22.0	28.2	33.8	3.20	4.43
TGKH0912-270K	27.0	32.3	38.8	3.10	4.13
TGKH0912-330K	33.0	41.1	49.3	2.80	3.66
TGKH0912-390K	39.0	45.2	54.3	2.70	3.49
TGKH0912-470K	47.0	57.7	69.3	2.35	3.05
TGKH0912-560K	56.0	63.7	76.4	2.10	2.97
TGKH0912-680K	68.0	71.4	85.7	2.00	2.78
TGKH0912-820K	82.0	91.4	110	1.90	2.36
TGKH0912-101K	100	105	125	1.65	2.21
TGKH0912-121K	120	139	167	1.55	1.94
TGKH0912-151K	150	162	195	1.45	1.84
TGKH0912-181K	180	183	220	1.32	1.73
TGKH0912-221K	220	231	278	1.15	1.54
TGKH0912-271K	270	262	315	1.08	1.45
TGKH0912-331K	330	333	399	0.97	1.27
TGKH0912-391K	390	408	490	0.88	1.13
TGKH0912-471K	470	477	572	0.82	1.08
TGKH0912-561K	560	578	694	0.74	0.96
TGKH0912-681K	680	722	866	0.61	0.87
TGKH0912-821K	820	810	972	0.56	0.83
TGKH0912-102K	1,000	1,093	1,312	0.48	0.69

2 Product Dimensions (mm)



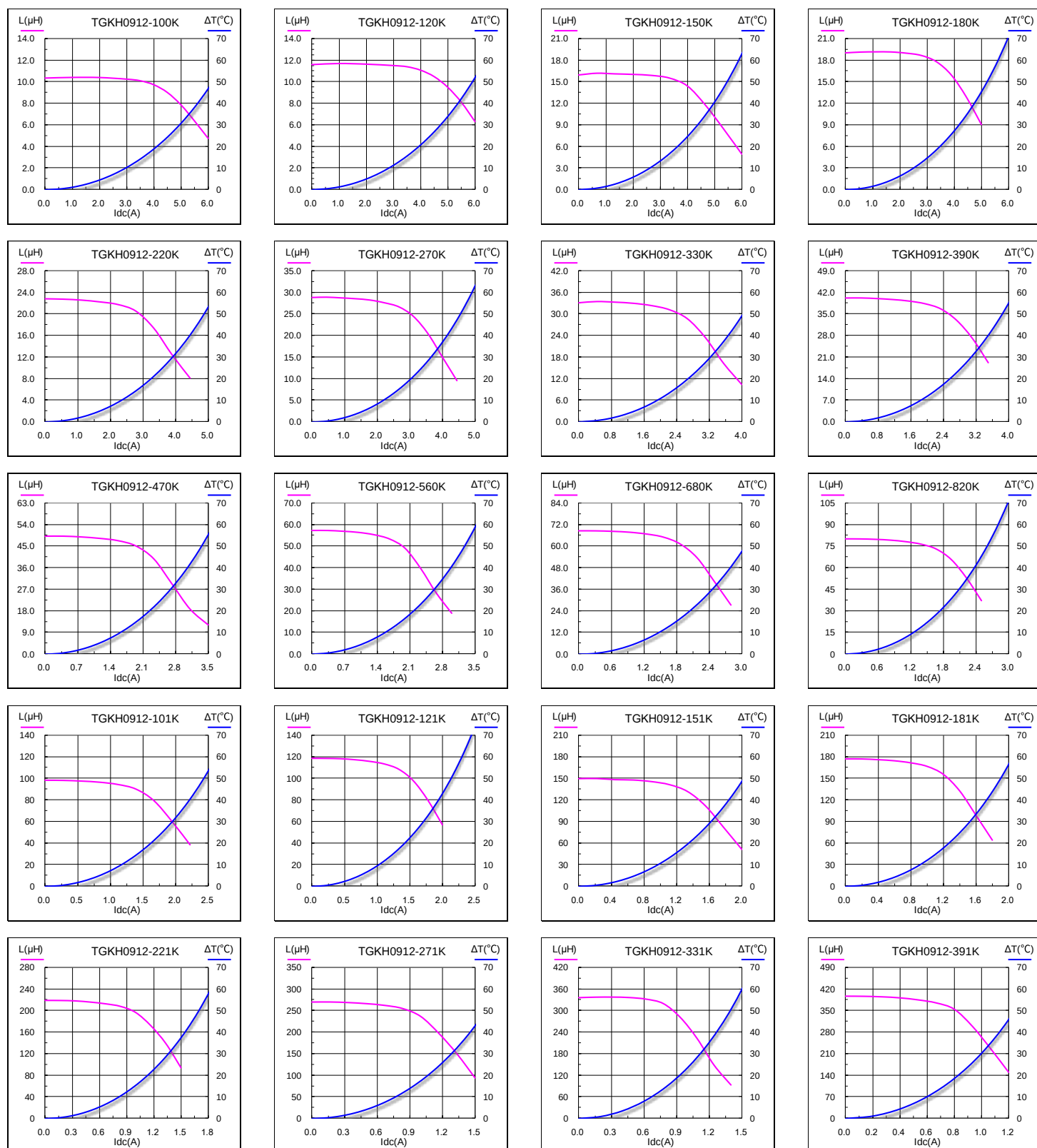
Typical Hole Pattern

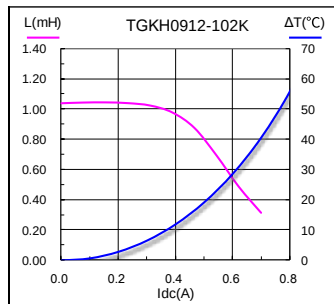
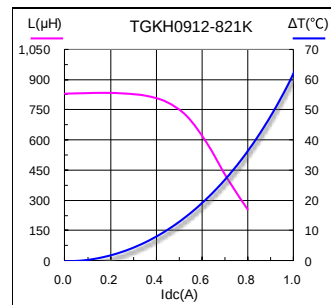
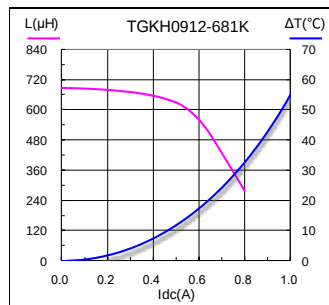
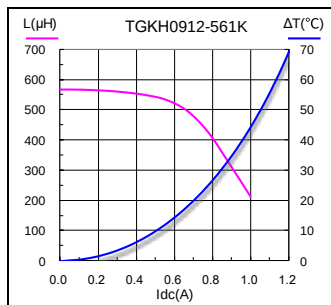
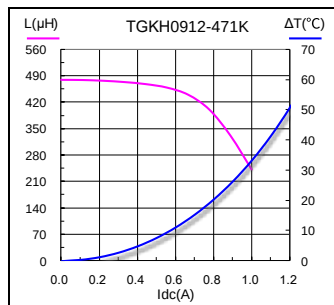
Schematic

All data is tested on 25°C ambient temperature

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

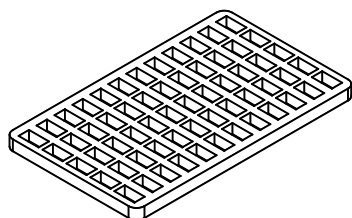
3 Saturation Current vs Temperature Rise Current Curve



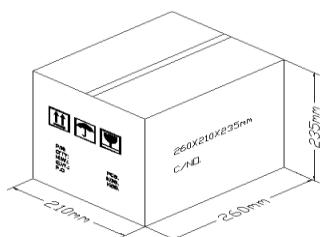
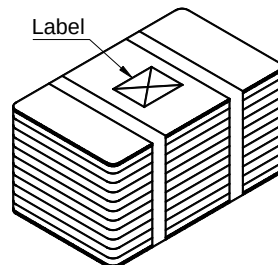
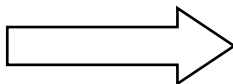


4 Packing Specification

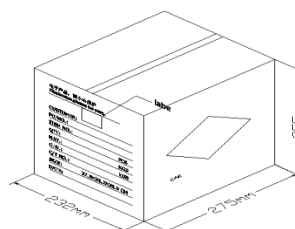
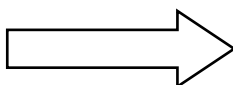
4.1 Packing(mm)



Tray × 17



Bundle × 1



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
TGKH0912	120pcs	(120×17) =2040pcs	(2040×1) =2040pcs

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 5~40°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.
- 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.