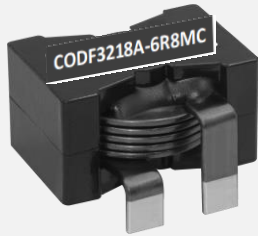




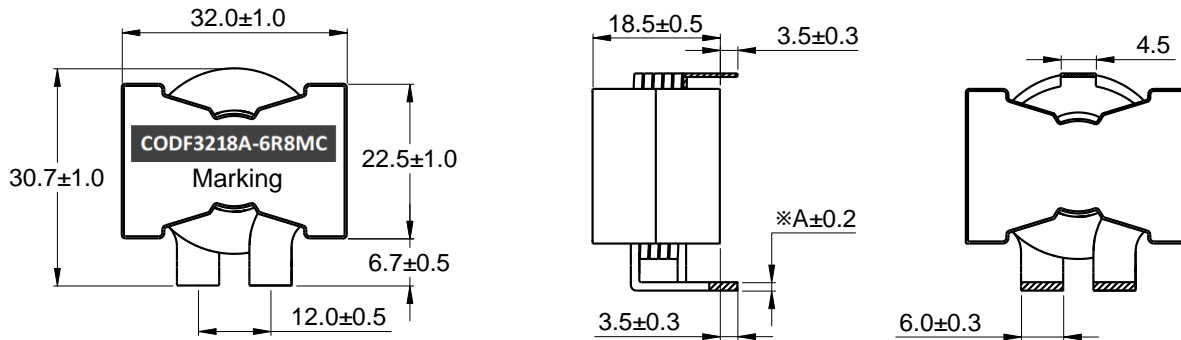
CODF3218A Series



Outline:

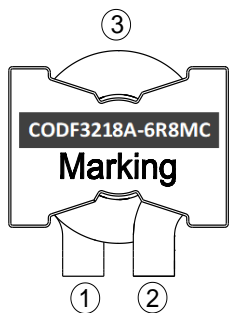
- Assemblage design, sturdy structure.
- High inductance, high current, low magnetic loss, low ESR, small parasitic capacitance.
- Flat wire winding, achieve a low D.C. Resistance.
- Temperature rise current and saturation current is less influenced by environment.
- Operating temperature : -40°C ~ +125°C (Including coil's temperature rise)

1 Appearance and Dimensions (mm)

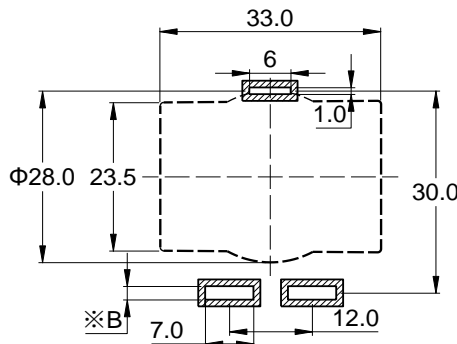


Part No.	3R3	6R8	100
Dimension A	1.20	1.00	0.80
Dimension B	1.80	1.60	1.20

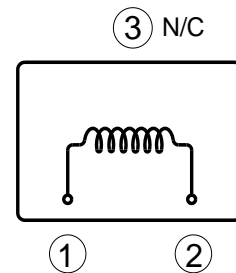
2 Marking



3 Reference Hole Pattern (mm)



4 Schematic



※ Date code will be changed by manufacture date

5 Electrical Characteristics

Part No.	Inductance (μH) 电感值 ※1 ±20%	D.C.R. (mΩ)		Saturation current (A) 饱和 ※2 Typical	Temperature rise current (A) ※3 Typical
		Typical	Max		
CODF3218A-3R3MC	3.30	1.00	1.20	80.0	55.0
CODF3218A-6R8MC	6.80	1.35	1.60	55.0	50.0
CODF3218A-100MC	10.0	2.30	2.80	45.0	40.0

■ All data is tested based on 25°C ambient temperature.

所有数据基于环境温度 25°C 条件下测试。

※1 Inductance measure condition at 100kHz, 1V.

电感测试条件为 100kHz, 1V。

※2 Saturation current: the actual value of DC current when the inductance decrease 20% of its initial value.

饱和电流: 电感值下降其初始值的 20% 时所加载的实际直流电流值。

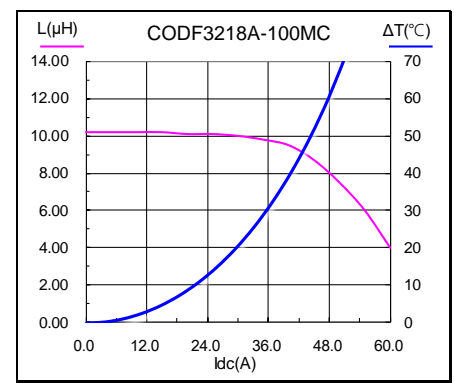
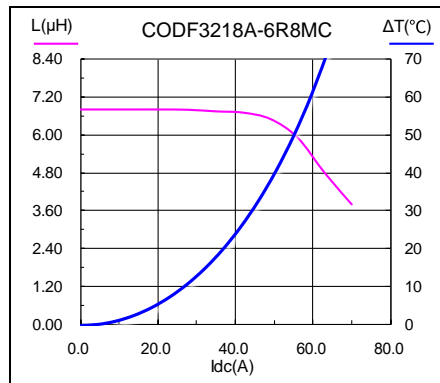
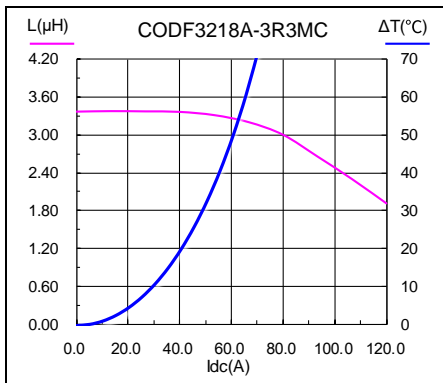
※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT40°C (Ta=25°C).

温升电流: 使产品温度上升到 ΔT40°C 时所加载的实际直流电流值 (Ta=25°C)。

※ 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.

(PCB)

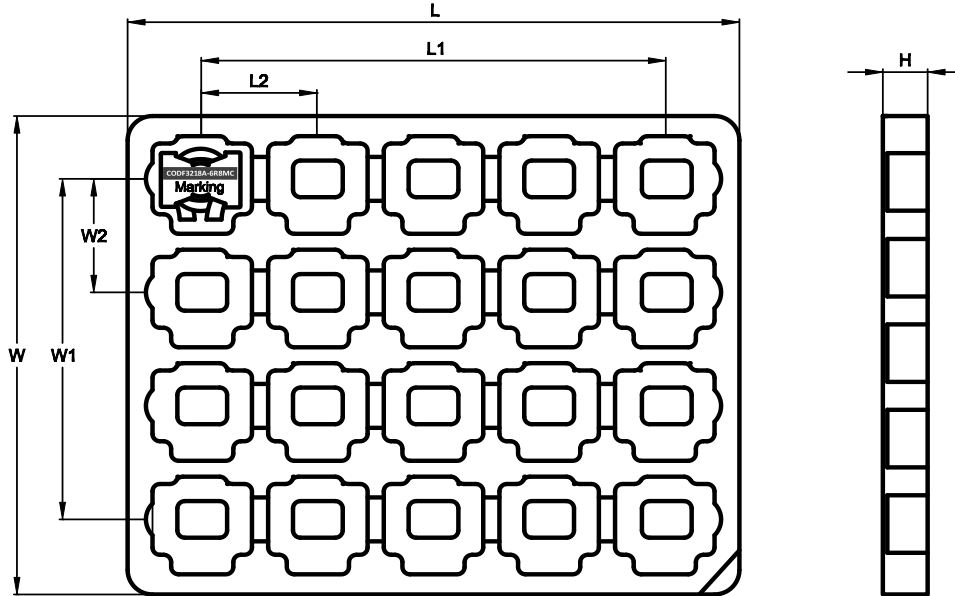
6 Saturation Current vs Temperature Rise Current Curve



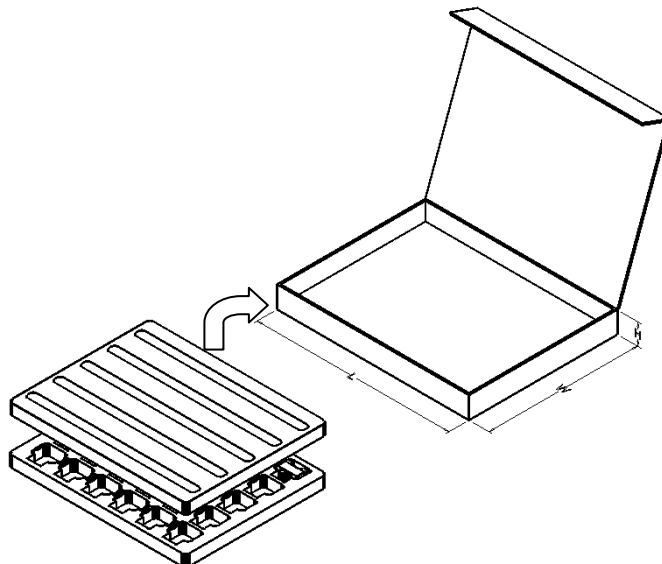
This product is not authorized for use in any application related to safety.
Specification subject to change without notice. Please check web site for latest information.

7 Packing Specification

7.1 Plastic Tray Dimensions (mm)
(mm)



L typ	L1 typ	L2 typ	W typ	W1 typ	W2 typ	H typ	Packaging Unit (Pcs) (Pcs)	Material
246	184	46	196	138	46	24	20	pet

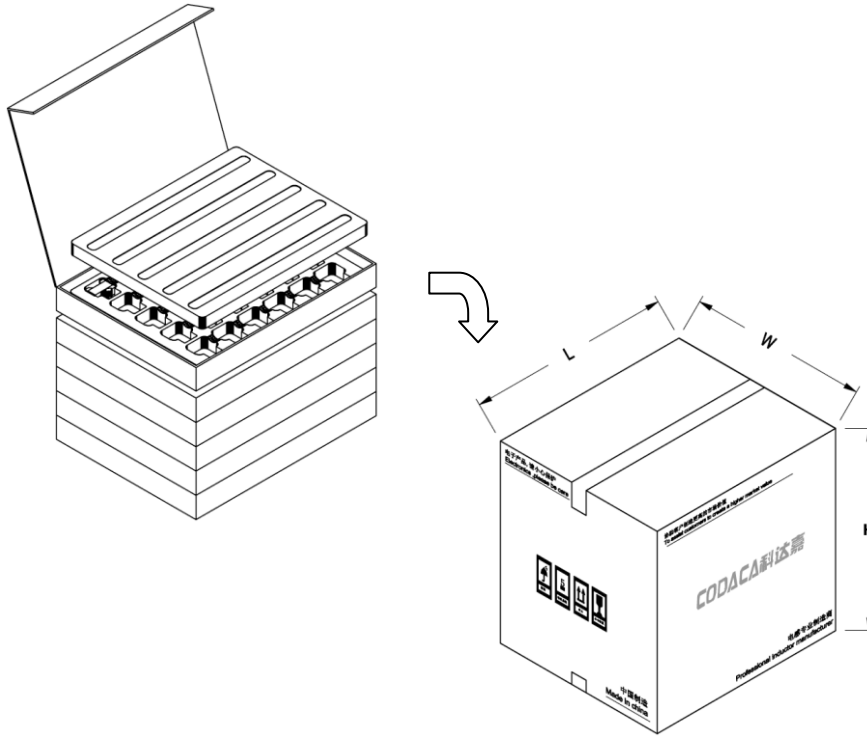


L typ	W typ	H typ	No. of Tray(Pcs) (Pcs)	Packaging Unit(Pcs) (Pcs)	Material
265	205	30	1	20	Paper

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Revised: 07/14/2020

7.2 Packing(mm) 包装(mm)



L typ	W typ	H typ	No. of Inner Carton 内盒数量(Pcs)	Packaging Unit(Pcs) 包装数量(Pcs)	Material 材料
275	232	255	8	160	Paper

7.3 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. 产品型号
■ Customer Part No. 客户型号
■ Customer Po No.

Shipping Label
■ Packing No.
■ Quantity
■ Shipment Date
■ Part No. 产品型号
■ Customer Part No. 客户型号
■ Customer Po No.

8 Notice of Use

8.1 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.

8.2 A storage of 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.

8.3 Do not keep products in unsuitable storage conditions, such as areas susceptible to high temperatures, high humidity, dust or corrosion.

8.4 Always handle products with care.

8.5 Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering.
Always ensure optimum conditions for soldering.

8.6 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.

8.7 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.

8.8 Hi-Pot test with higher voltage than spec value will damage insulating material and shorten its life.

8.9 If using in potting compound, the magnet wire coating might be damaged, please consult with us.

8.10 Refrain from rinsing coils. If necessary, please consult with us.

Revised: 07/14/2020

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