Molded Power Inductor

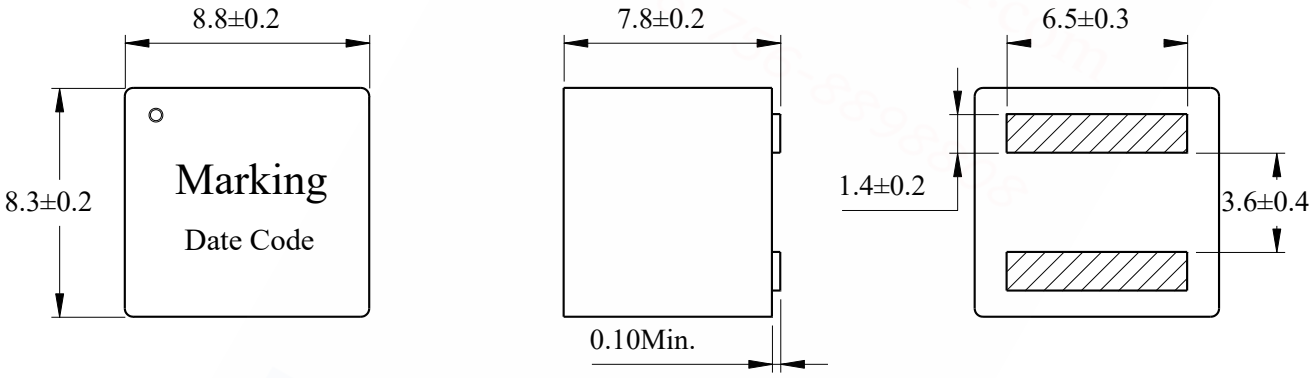
ET8080 Series

REV: 0

Outline:

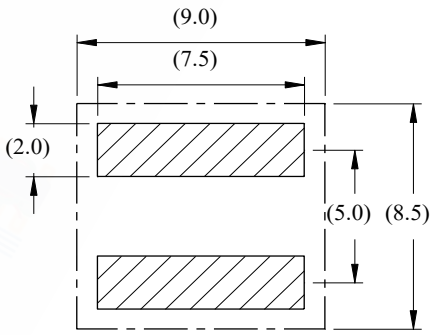
- Magnetic shielded structure: excellent resistance to electro-magnetic interference(EMI).
- A composite structure, ultra low buzz noise.
- Low loss, high efficiency, wide application frequency.
- Lightweight design, save space, suitable for high density SMT.
- Molding by low loss alloy powder: low impedance, small parasitic capacitance.
- Operating temperature : -40℃ ~ +125℃ (Including coil's temperature rise)

A. Mechanical(unit:mm)

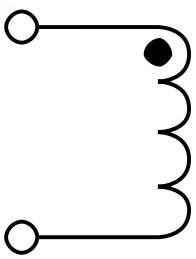


Marking:

Reference Land Pattern (mm):



B. Schematics



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C. Electrical Specifications

Eastever P/N	Inductance (μH)	D.C.R. (mΩ)		Saturation current (A)	Temperature rise current (A)	Coilcraft P/N
	±20%	Typical	Max.	Typical	Typical	
ET8080-R68M	0.68	1.56	1.75	38.0	37.0	XAL8080-681M
ET8080-1R0M	1.00	2.10	2.32	31.0	34.0	XAL8080-102M
ET8080-1R5M	1.50	3.00	3.50	28.0	28.0	XAL8080-152M
ET8080-2R2M	2.20	3.70	4.25	24.0	21.5	XAL8080-222M
ET8080-3R3M	3.30	6.40	7.50	20.0	18.0	XAL8080-332M
ET8080-4R7M	4.70	8.65	9.54	17.4	14.6	XAL8080-472M
ET8080-6R8M	6.80	13.5	14.5	14.0	11.0	XAL8080-682M
ET8080-100M	10.0	20.0	22.0	11.0	9.00	XAL8080-103M
ET8080-150M	15.0	25.0	28.0	9.00	8.50	XAL8080-153M
ET8080-220M	22.0	30.0	34.5	7.50	7.00	XAL8080-223M

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

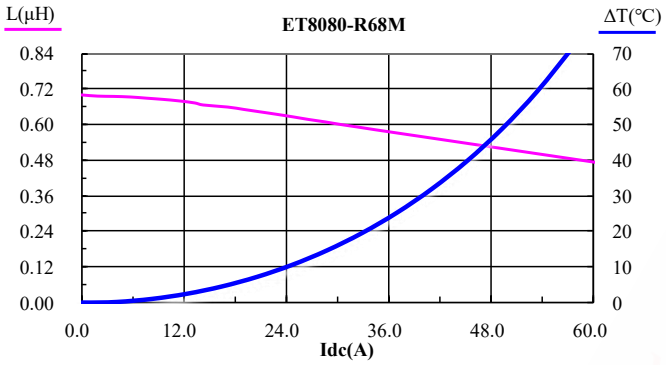
※ Inductance measure condition at 100kHz, 0.1V.

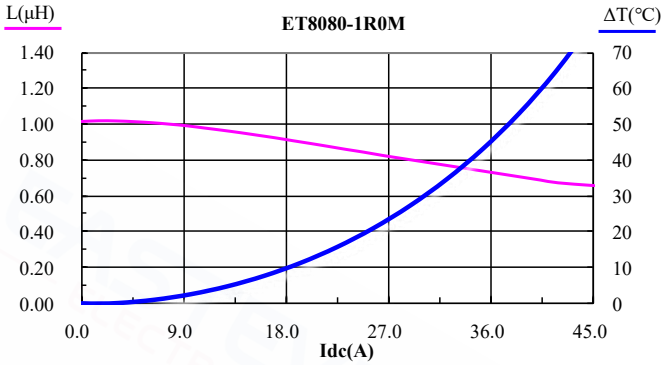
※ Saturation current：the actual value of DC current when the inductance decrease 30% of its initial value.

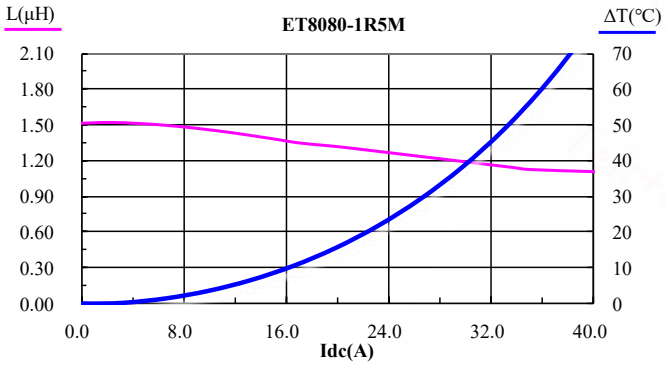
※ Temperature rise current：the actual value of DC current when the temperature rise is ΔT40°C(Ta=25°C).

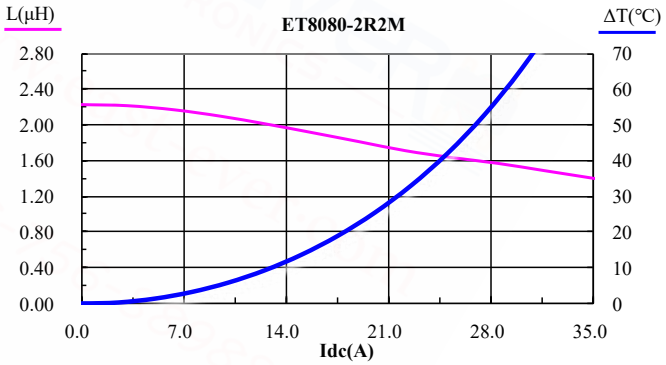
※ Special remind：Circuit design, component placement, PCB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

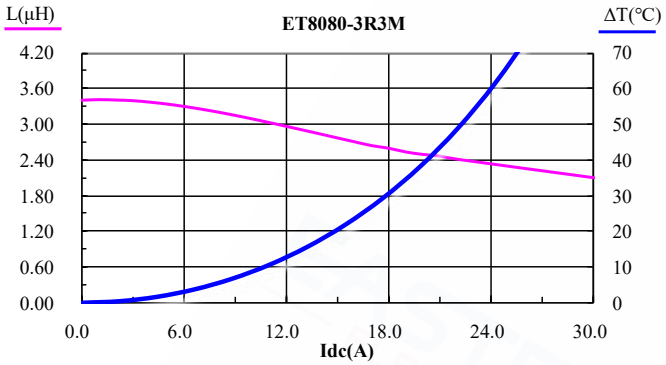
D. Saturation current VS temperature rise current curve

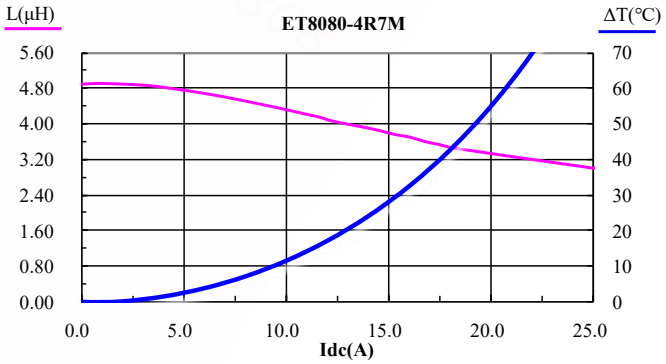


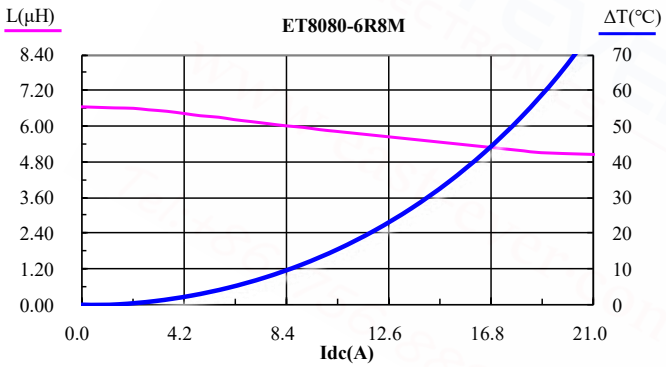


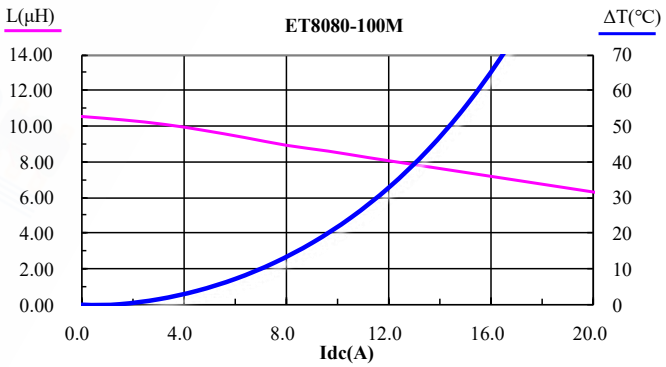


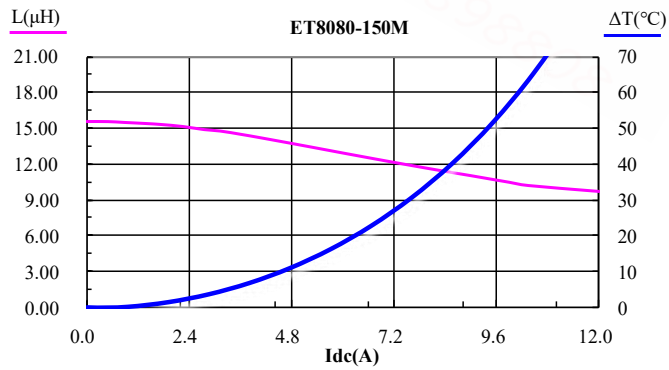


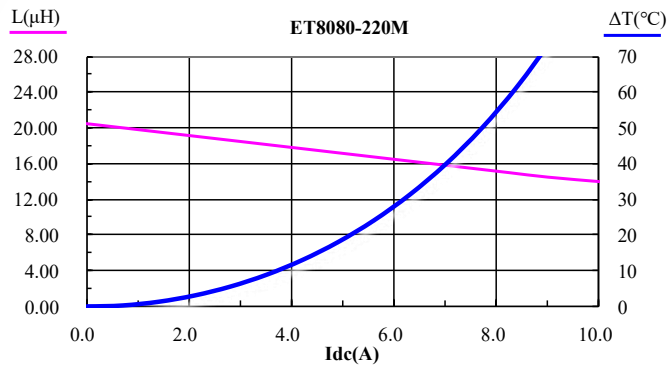












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RoHS COMPLIANT

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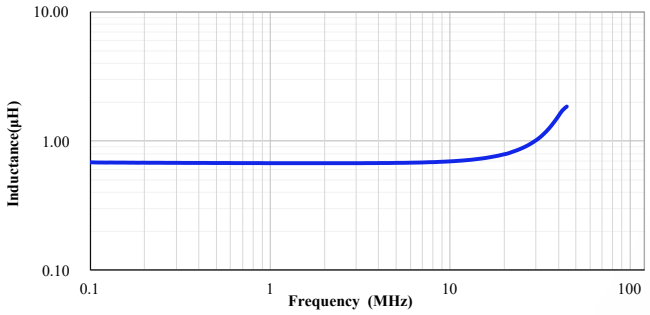
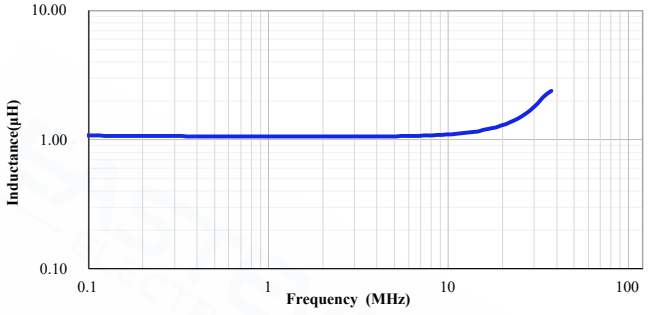
E. L vs Frequency

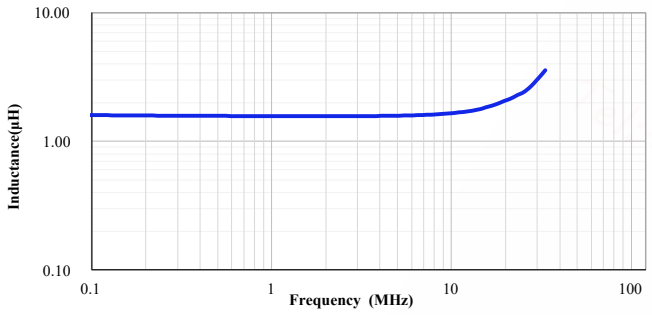
ET8080-R68M



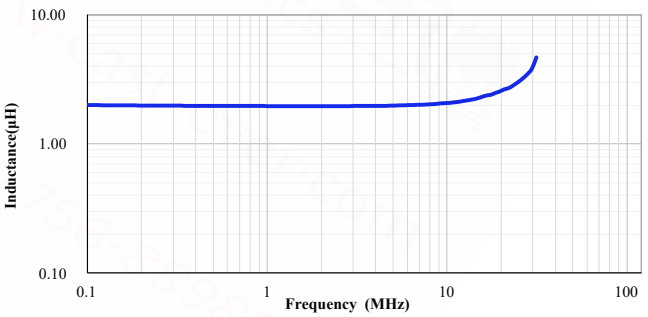
ET8080-1R0M



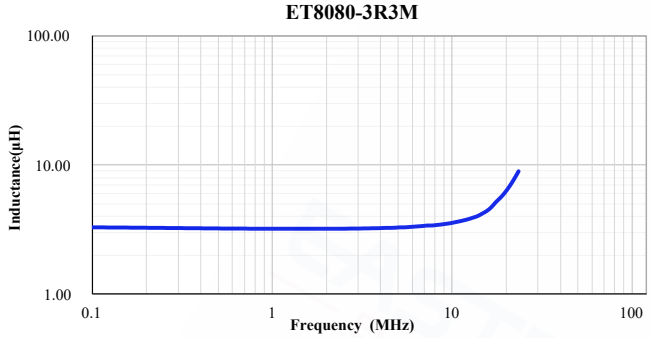
ET8080-1R5M



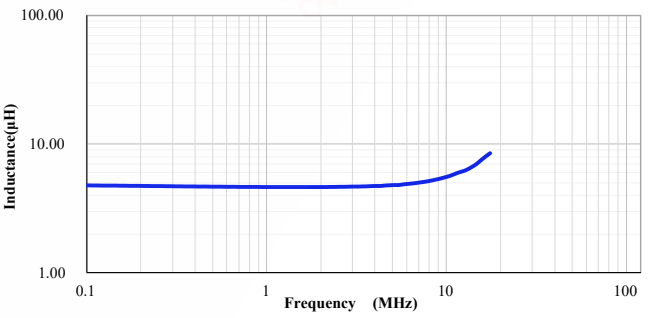
ET8080-2R2M



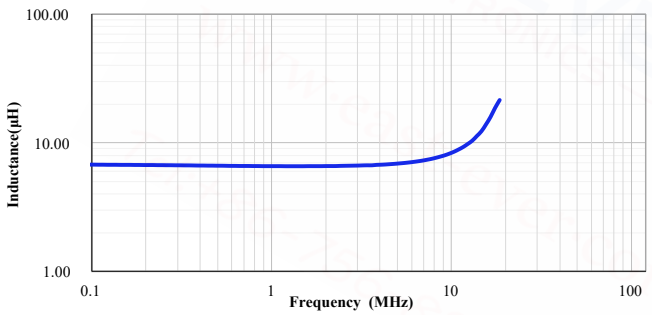
ET8080-3R3M



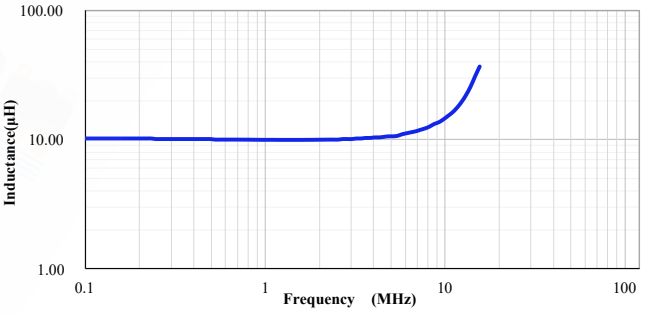
ET8080-4R7M



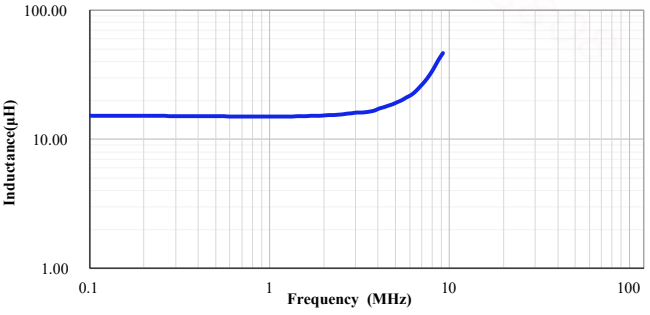
ET8080-6R8M



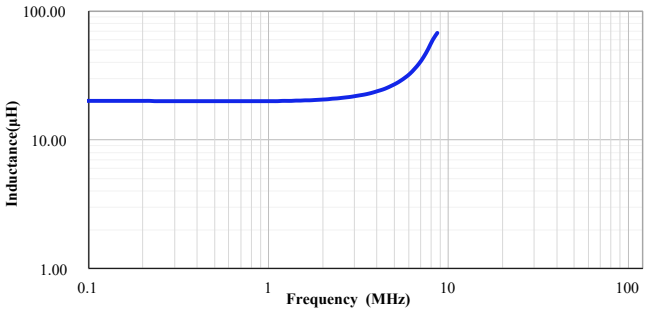
ET8080-100M



ET8080-150M



ET8080-220M



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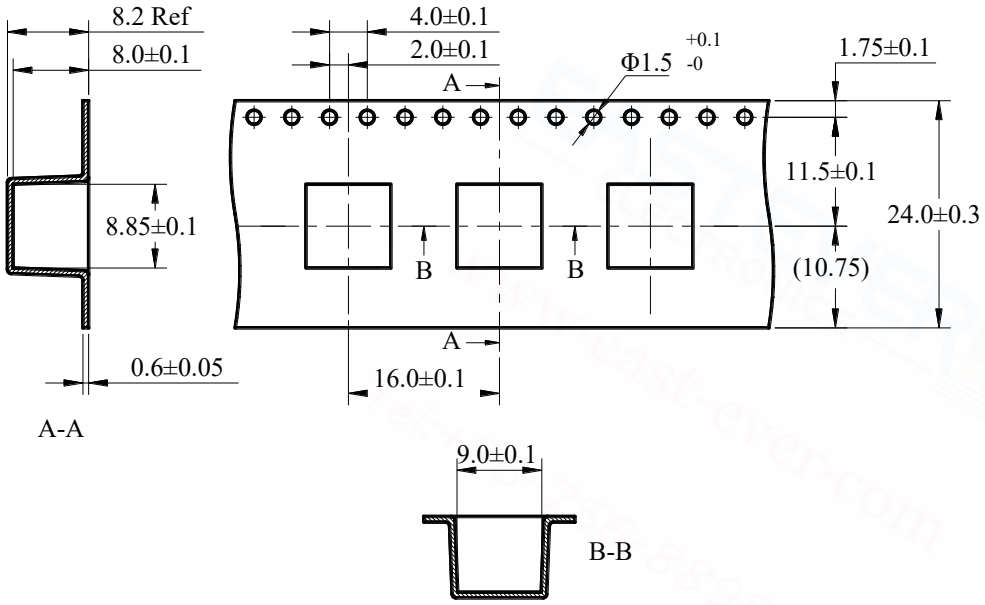
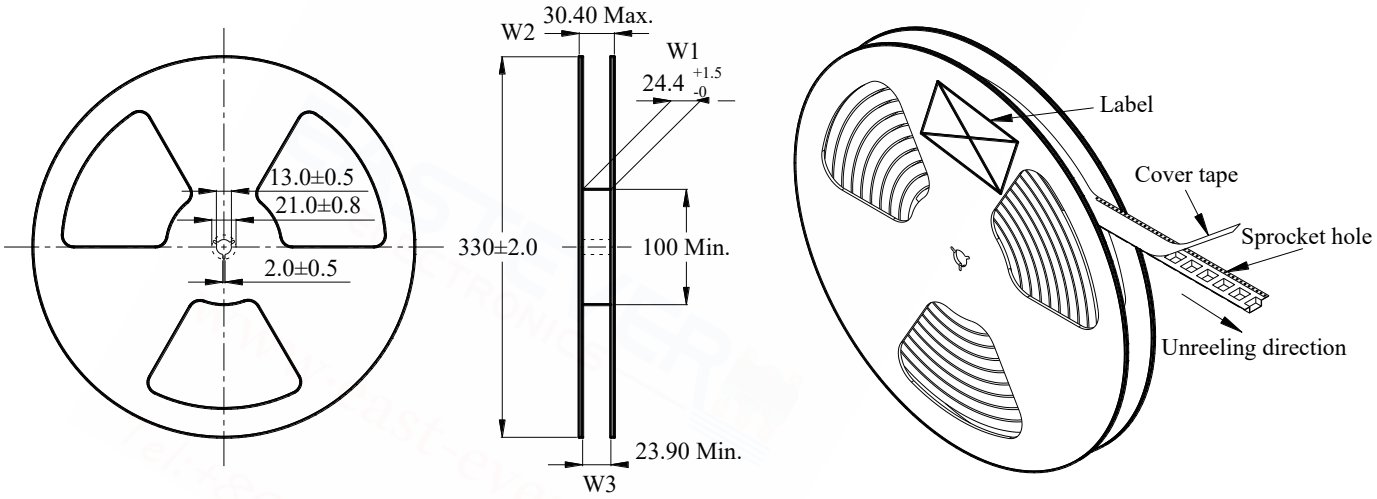
F. Packing specification

Carrier tape dimensions (mm):



Reel dimensions (mm):



Carton dimensions and packing quantity:

- Inner Carton：340×340×95mm
- Outer Carton ：360×360×370mm

Product Series	Quantity / Reel	Inner Carton Quantity	Outer Carton Quantity
ET8080	500pcs	(500×2) = 1000pcs	(1000×3) = 3000pcs