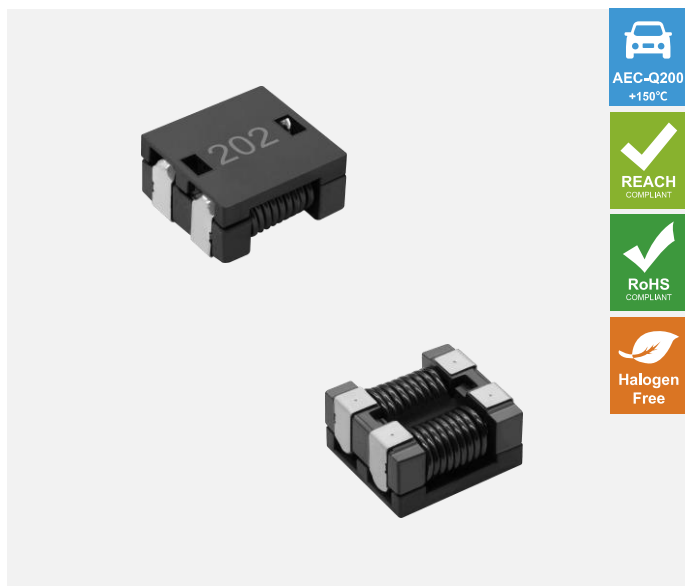




Construction Wire



Outline:

- Low profile design makes it optional for surface mounting.
- Exclusive square type closed magnetic core designed as an exclusive core is used, so it can be small.
- Excellent impedance characteristics, making it great for suppressing common mode noise.

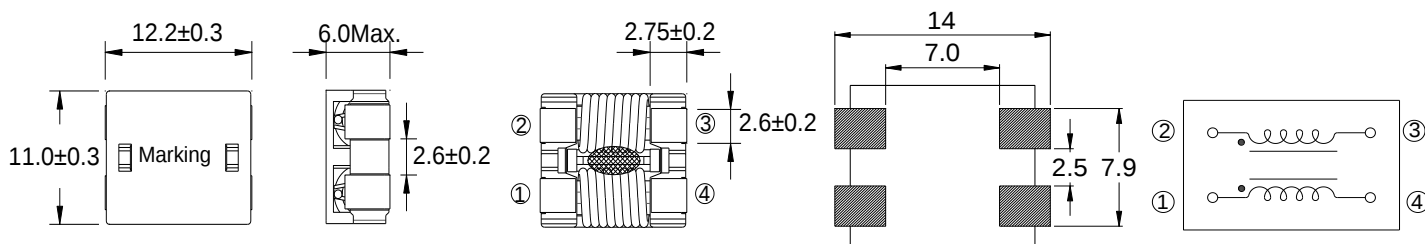
Features:

- Core material: Ferrite
- Environmental: RoHS, Reach compliant, Halogen free.
- Weight: 2.79g
- Moisture Sensitivity: Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity).
- Operating temperature range: -50°C ~ +150°C (including coil's self temperature rise).
- Storage temperature range: -50°C ~ +150°C

Application:

- Measures against common mode noise in power lines for various DC power lines, multimedia devices and various electronic devices, including automotive power trains.

1 Appearance and Dimensions (mm)



2 Electrical Characteristic

Part No.	Inductance (μ H)※1	Impedance (Ω)	D.C.R. (m Ω)	Rated Current (A)※2	Insulation Resistance (M Ω)
	Typical	Typical	Max.	Max.	Min.
VSTP1260-351	3.70	350	2.70	10.0	10.0
VSTP1260-701	10.0	700	4.50	8.00	10.0
VSTP1260-102	22.0	1000	10.5	6.00	10.0
VSTP1260-172	28.6	1700	12.5	4.80	10.0
VSTP1260-202	29.8	2000	17.5	4.00	10.0

All data is tested on 25°C ambient temperature

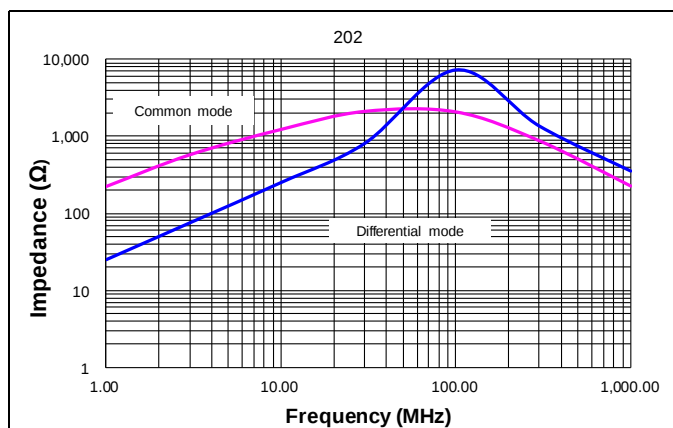
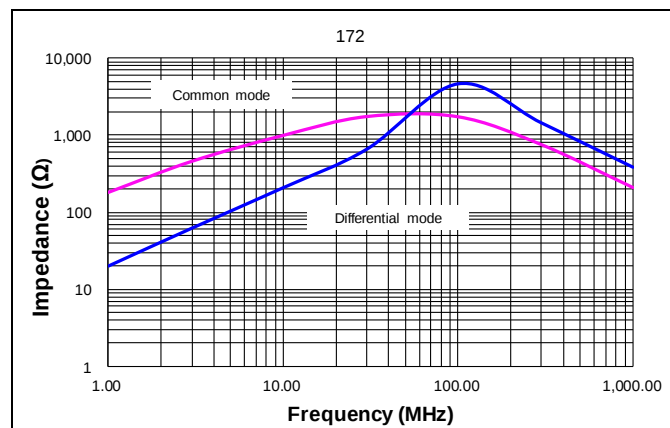
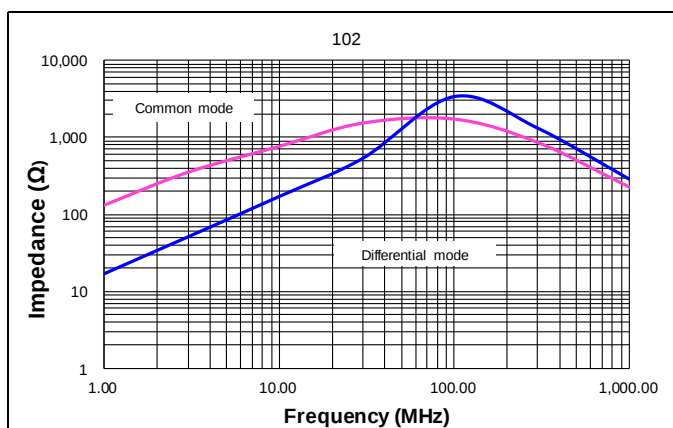
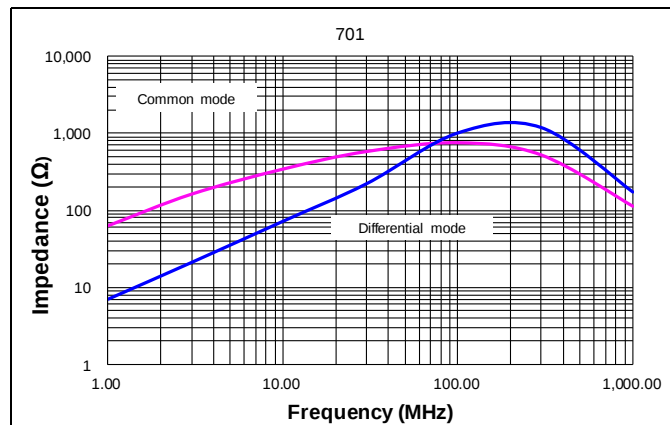
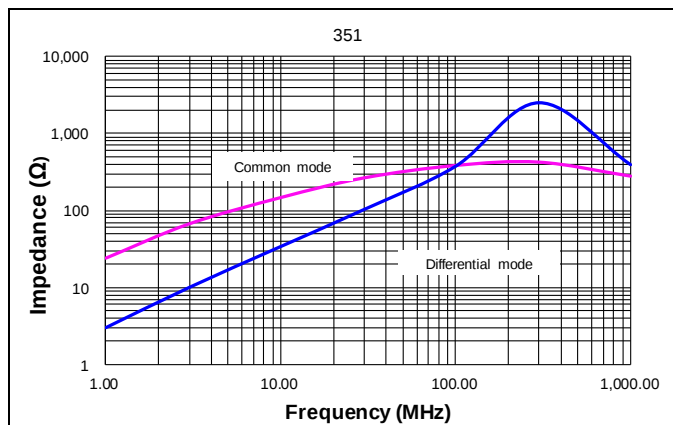
- Inductance measure condition at 100kHz, 0.1V.
- Rated Current: the actual value of DC current when the temperature rise is $\Delta T 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

3 How to Order

VSTP1260-701

Model
Dimensions
Value Code

4 Impedance vs Frequency Curve



5.1 Carrier Tape Dimensions (mm)

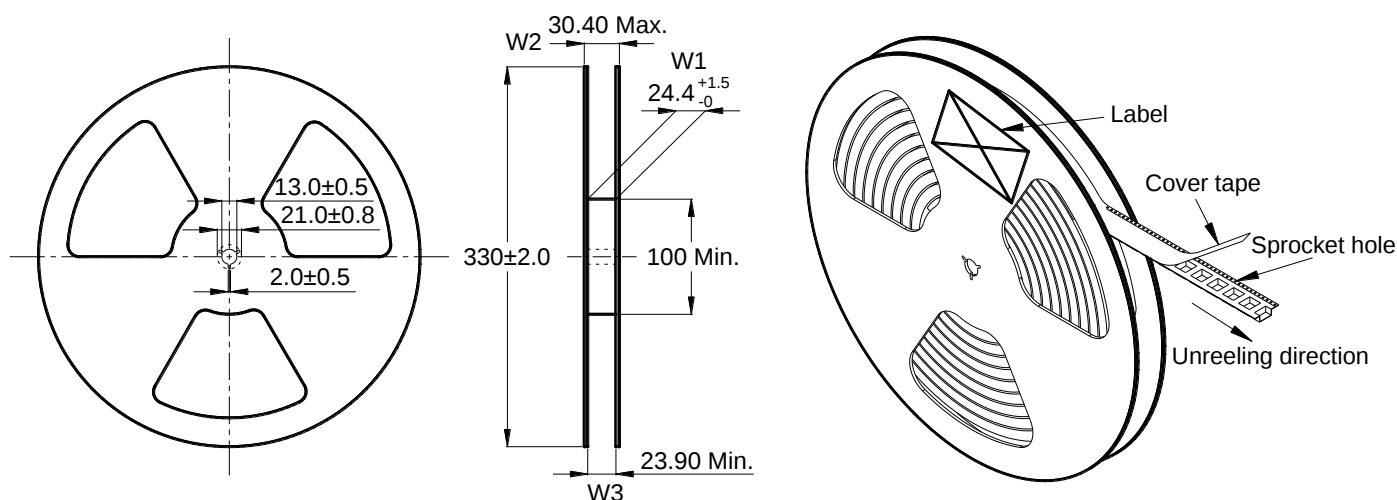


The diagram illustrates the layout of a carrier tape. It shows a sequence of components and sprocket holes. The tape starts with a section labeled "No component" with a length of "160mm Min.". This is followed by a section labeled "Component" containing four components. Then, there is another "No component" section with a length of "100mm Min.". The tape ends with a "Cover tape" section with a length of "400mm Min.". The "Feeding direction" is indicated by an arrow pointing to the right. The "Sprocket hole" is labeled at the beginning of the "No component" section. The "Start" and "End" points are marked at the beginning and end of the tape, respectively.

- Cover tape peel force shall be 0.1 to 1.3N.
- Reference peel speed 300±10mm/min.



5.4 Reel Dimensions (mm)



5.5 Carton Dimensions and Packing Quantity

■ Inner Carton: 340×340×95mm

■ Out Carton : 360×360×370mm

Product Series	Quantity / Reel	Inner Carton Quantity	Out Carton Quantity
VSTP1260	500pcs	(500×2) = 1000pcs	(1000×3) = 3000pcs

5.6 Label Marking

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

Production Label

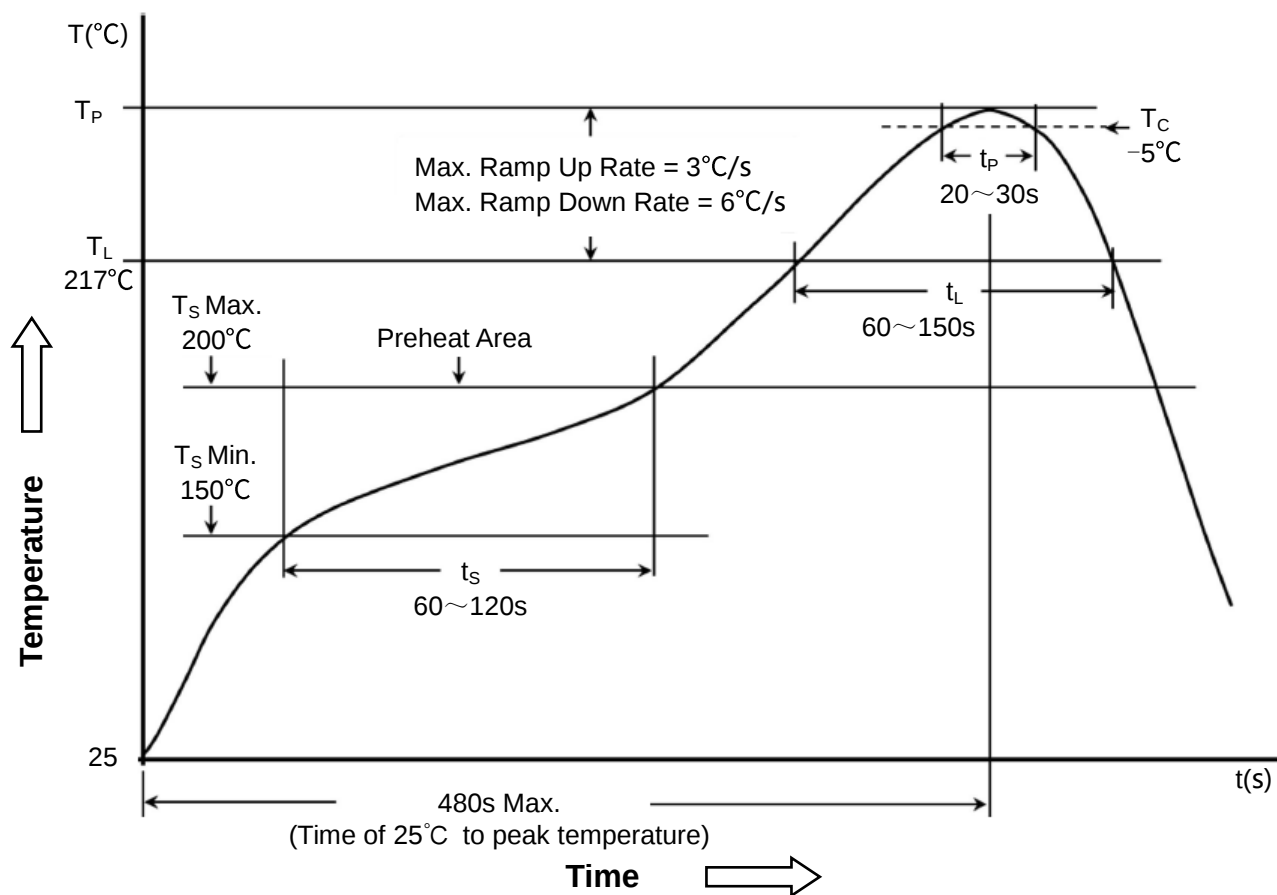
- Packing No.
- Quantity
- Shipment Date
- Part No.
- Customer Part No.
- Customer Po No.

Shipping Label

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

6 Soldering Specification

6.1 Reflow Profile for SMT Components



6.2 Classification of Peak Package Body Temperature (T_P)

	Package Thickness	Package Volume		
		<350 mm ³	350~2000 mm ³	>2000 mm ³
PB-Free Assembly	<1.6mm	260°C	260°C	260°C
	1.6~2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

※ Reflow is referred to standard IPC/JEDEC J-STD-020E.

7 Notice of use

- 7.1 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.
- 7.2 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.
- 7.3 Do not keep products in unsuitable storage conditions, such as areas susceptible to high temperatures, high humidity, dust or corrosion.
- 7.4 Always handle products with care.
- 7.5 Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering.
Always ensure optimum conditions for soldering.
- 7.6 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.
- 7.7 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.
- 7.8 Hi-Pot test with higher voltage than spec value will damage insulating material and shorten its life.
- 7.9 If using in potting compound, the magnet wire coating might be damaged, please consult with us.
- 7.10 Refrain from rinsing product. If necessary, please consult with us.
- *7.11 Codaca Electronic products without "V" prefix are qualified for industrial product requirement , and with "V" prefix are qualified for AEC-Q200, but it doesn't mean that Codaca Electronic products can absolutely meet specific industry norms and quality test standards in automotive electronics or more strict application fields . Codaca Electronic will be exempted from being responsible for the consequences of using Codaca products in automotive electronic or higher application field related to safety when without being aware of it.