

High Current Power Inductor CSI1060 Series



Outline:

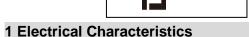
- Flat wire winding, achieve a low D.C. Resistance.
- Magnetic shielded structure: excellent resistance to electro magnetic interference(EMI)
- Soft saturation makes them ideal for VDR/VRM applications

Features:

- Core material:Composite
- Environmental: RoHS, Reach compliant, Halogen free
- Weight: 3.37 g
- 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:

- Rraphic cards/ industrial conputers
- DC /DC converters/Motherboards/Filter
- High current switching regulators/Polyphase-switching regulators

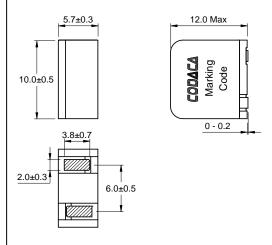


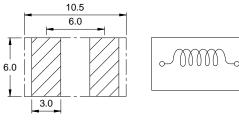
Part No.	Inductance (µH)※1	D.C.R. (mΩ)		Isat (A)%2	Irms (A) ※3
	±20%	Typical	Max	Typical	Typical
CSI1060-R56M	0.56	1.03	1.10	45.0	25.0

All data is tested on 25°C ambient temperature

- 1. Inductance measure condition at 100kHz,0.1V
- 2. Isat:the actual value of DC current when the inductance decrease 30% of its initial value
- 3. Irms:the actual value of DC current when the temperature rise is ΔT50°C(Ta=25°C)

2 Product Dimensions (mm)



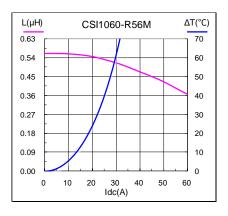




Model Dimensions Value Code

TEL: +86 755 89585372 FAX: +86 755 89585280 http://www.codaca.com E-mail: codaca@codaca.com

4 Saturation Current vs Temperature Rise Current Curve

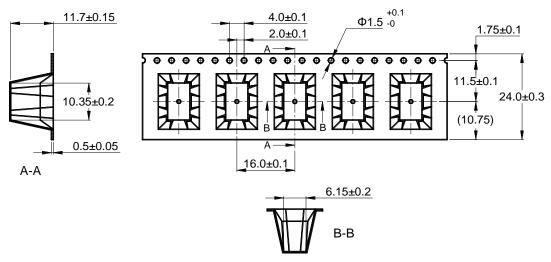




High Current Power Inductor CSI1060 Series

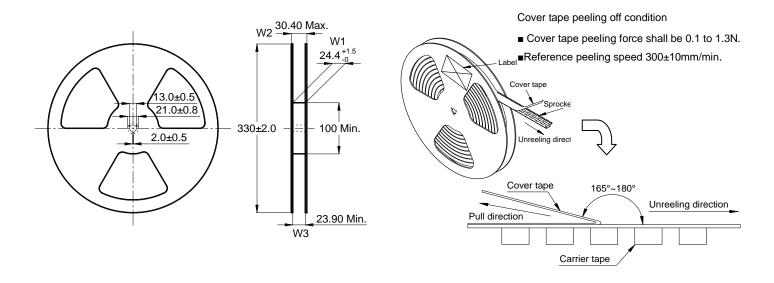
5 Packing Specification

5.1 Carrier Tape Dimensions (mm)



Packing is referred to the international standard IEC 60286-3.

5.2 Reel Dimensions (mm)



5.3 Carton Dimensions and Packing Quantity

■ Inner Carton: $340 \times 340 \times 95$ mm ■ Out Carton: $355 \times 355 \times 385$ mm

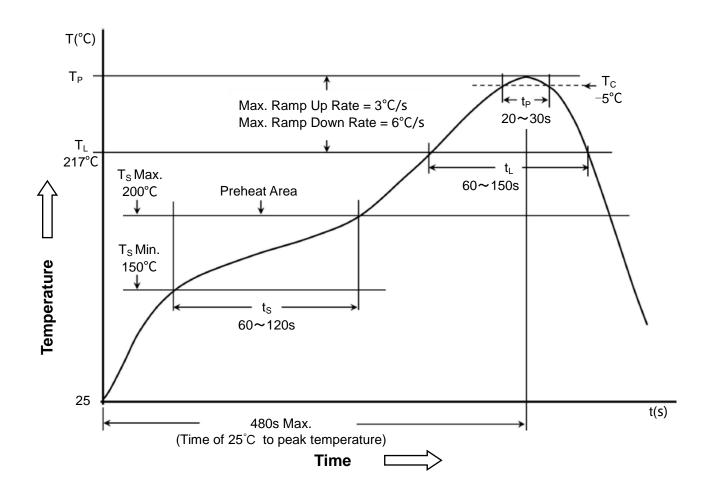
Product Series	Quantity / Reel	Inner Carton Quantity	Out Carton Quantity
CSI1060	250pcs	$(250 \times 2) = 500$ pcs	$(500 \times 3) = 1500 pcs$

TEL: +86 755 89585372 http://www.codaca.com FAX: +86 755 89585280 E-mail: codaca@codaca.com



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-020D.

TEL: +86 755 89585372 http://www.codaca.com FAX: +86 755 89585280 E-mail: codaca@codaca.com



High Current Power Inductor CSI1060 Series

7 Notice of Use

- 7.1 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.
- 7.2 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.
- 7.3 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.
- 7.4 Do not keep products in unsuitable storage conditions, such as areas susceptible to high temperatures, high humidity, dust or corrosion.
- 7.5 Always handle products with care.
- 7.6 Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering.
- 7.7 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.
- 7.8 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 devicesor protection circuit in the end product.
- 7.9 Hi-Pot test with higher voltage than spec value will damage insulating material and shorten its life.
- 7.10 If using in potting compound, the magnet wire coating might be damaged, please consult with us.
- 7.11 Refrain from rinsing coils. If necessary, please consult with us.

TEL: +86 755 89585372 http://www.codaca.com

FAX: +86 755 89585280 E-mail: codaca@codaca.com

Reviesd: 07/14/2020