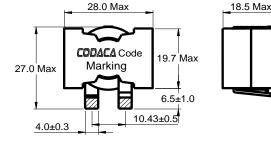
## High Current Power Inductor CSCF2918H Series





### 1 Product Dimensions (mm)



※ Date code will be changed by manufacture date

Inductance

(µH)※1

±20%

3.30

4.70

6.80

10.0

15.0

22.0

33.0

### 2 Electrical Characteristics

Part No.

CSCF2918H-3R3MC

CSCF2918H-4R7MC

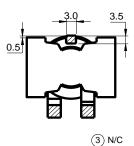
CSCF2918H-6R8MC

CSCF2918H-100MC

CSCF2918H-150MC

CSCF2918H-220MC

CSCF2918H-330MC



 $\mathbf{mm}$ 

1

Isat

(A) %2

Typical

94.0

65.0

48.0

33.0

24.0

15.0

10.5

Ċ

(2)

Irms

(A) ※3

Typical

30.0

30.0

30.0

30.0

30.0

30.0

30.0

3.8 Min

D.C.R. (mΩ)

Max.

2.58

2.58

2.58

2.58

2.58

2.58

2.58

Typical

2.15

2.15

2.15

2.15

2.15

2.15

2.15

**Outline:** 

Features:

Assemblage design, sturdy structure.

low ESR, small parasitic capacitance.

is less influenced by environment.

Moisture Sensitivity:Level (MSL) 1

Core material: Ferrite Core and winding loss:

Weight:37.85g

Application:

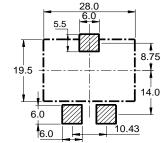
High inductance, high current, low magnetic loss,

Flat wire winding, achieve a low D.C. Resistance. Temperature rise current and saturation current

See www.codaca.com/en/PowerInductorLossComparison Environmental: RoHS, Reach compliant ,Halogen free

(unlimited floor life at  $<30^{\circ}$ C / 85% relative humidity) Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise). Storage temperature range: -40°C~+125°C

Ideally used in tablet PC, LCD display, server application. high current power supplies, Battery power devices DC/DC converters in distributed power systems



Schematic

Typical Pad Layout

#### 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  $\Delta$ T40°C(Ta=25°C)

#### 3 How to Order:

	CSCF2918H-3R3MC			)
Model				
Dimensions .				
Value Code			]	
Coating				

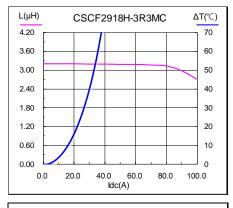
### CODACA ELECTRONIC CO., LTD

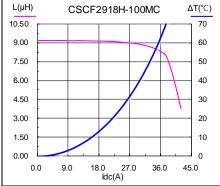
TEL: +86 755 89585372 FAX: + http://www.codaca.com E-mail:

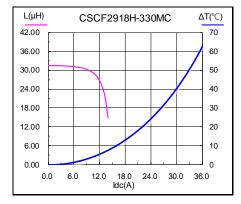
FAX: +86 755 89585280 E-mail: info@codaca.com

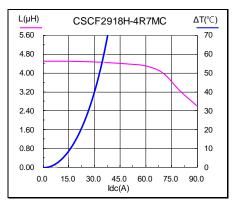
## High Current Power Inductor CSCF2918H Series

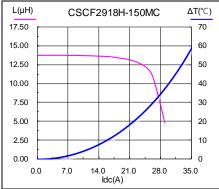
### 4 Saturation Current vs Temperature Rise Current Curve

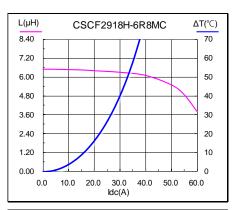


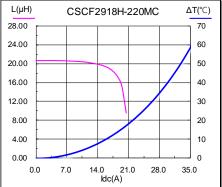












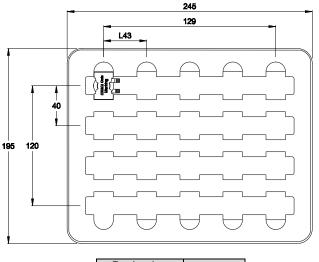
### CODACA ELECTRONIC CO., LTD

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

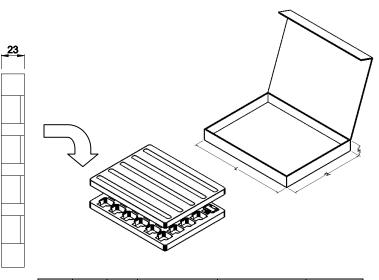
## High Current Power Inductor CSCF2918H Series

### **5 Packing Specification**

5.1 Plastic Tray Dimensions (mm)

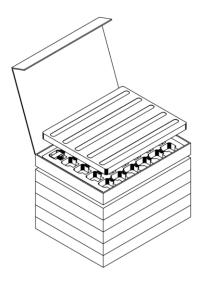


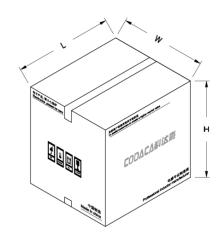
Packaging Unit (Pcs)	Material	
20	APET	



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

### 5.2 Packing(mm)





L	typ	W typ	H typ	No. of Inner Carton	Packaging Unit( Pcs)	Material
2	75	232	261	8	160	Paper

### CODACA ELECTRONIC CO., LTD

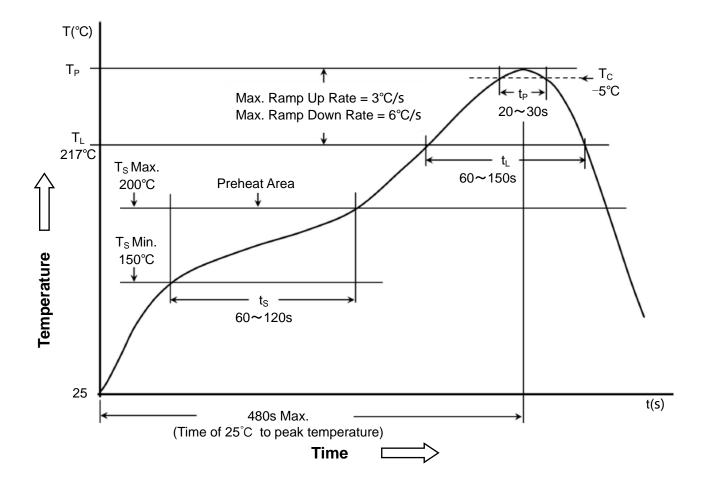
TEL: +86 755 89585372 FAX: +86 755 89585280 http://www.codaca.com E-mail: info@codaca.com

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.



### 6 Soldering Specification

6.1 Reflow Profile for SMT Components



### 6.2 Classification of Peak Package Body Temperature (T<sub>P</sub>)

	Package Thickness	Package Volume		
		<350 mm <sup>3</sup>	350 ~ 2000 mm <sup>3</sup>	>2000 mm <sup>3</sup>
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.

### CODACA ELECTRONIC CO., LTD

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

#### 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.