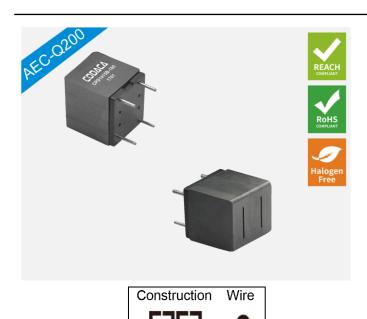
# CODACA科达嘉





- Improving sound quality by using Oxygen Free Copper(OFC)wire High inductance, high current, low magnetic loss,
- low ESR, small parasitic capacitance Magnetically shielded structure: excellent resistance
- to electromagnetic interference(EMI)

#### Features:

- Core material:Ferrite
- Core and winding loss:
- www.codaca.com/DesignTool\_Power-Inductor-Loss-Comparison.html
- Environmental:RoHS compliant, halogen free
- Weight:13.05g
- Moisture Sensitivity:Level (MSL) 1
- (Unlimited floor life at <30°C / 85% relative humidity)
- Operating temperature range: -40°C~+125°C
- (Including coil's temperature rise). Storage temperature range: -40°C∼+125°C

(4)

0-mmm-0

1

(3)

0-mmm-0

(2)

### Application:

- Designed Best suited as LPE Inductor for Digital Ampilifier (Class-D Amp)
- Support high-output of AV Amplifiers and Car Amplifiers and so on



	15.5±0.5	16.0Max 4.5	5±0.5 Μ (ΦΑ±0.1	11.8±0.5	
14.0±0.5		<b>ODAC</b> 1arkinę Code	2222 8.5±0.5		14.0 8.5

Inductance	4.70µH–10.0µH	15.0µH–22.0µH	
A(mm)	0.80	0.70	
B(mm)	1.20	1.10	

Date code will be changed by manufacture date

### 2 Electrical Characteristics

Part No.	Inductance (µH)※1 (1-2)/(3-4)	D.C.R. (mΩ) (1-2)/(3-4)		lsat (A)	Irms (A) %3 (1-2)/(3-4)
	±20%	Typical	Max.	Typical	Typical
CPD1415B-4R7M	4.70	6.20	7.40	17.5	13.0
CPD1415B-6R0M	6.00	7.30	8.70	16.1	11.0
CPD1415B-7R5M	7.50	8.20	9.80	14.5	9.00
CPD1415B-100M	10.0	9.20	11.0	12.3	8.00
CPD1415B-150M	15.0	13.0	15.6	9.30	7.00
CPD1415B-180M	18.0	14.3	17.1	8.50	6.80
CPD1415B-220M	22.0	14.3	17.1	6.90	6.80

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

Model-

Dimensions. Value Code-Tolerance \_

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

CPD1415B-150M

**Typical Hole Pattern** 

All data is tested on 25°C ambient temperature 1.Inductance measure condition at 1kHz.1V 2.Isat: the actual value of DC current when the Inductance decrease 25% of its initial Value 3.Irms: The actual value of DC current when the Temperature rise is ∆T40°C(Ta=25°C)

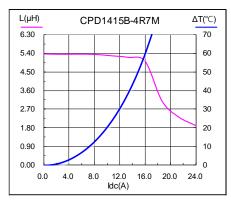
Schematic

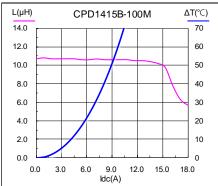
This product is not authorized for use in any application related to safety. Specification subject to change without notice. Please check web site for latest information. 3 How to Order

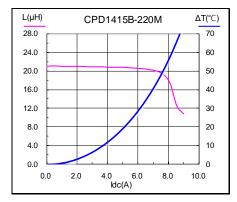
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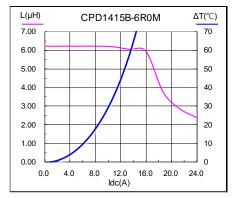
# Inductor for Digital AMP CPD1415B Series

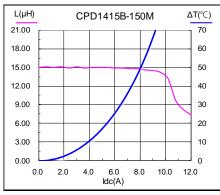
### 4 Saturation Current vs Temperature Rise Current Curve

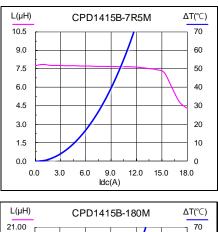


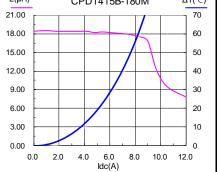












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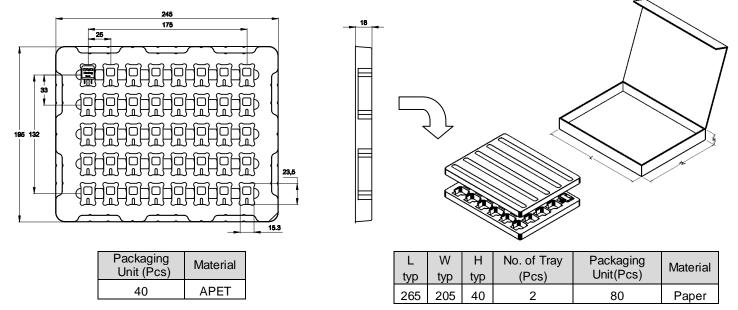
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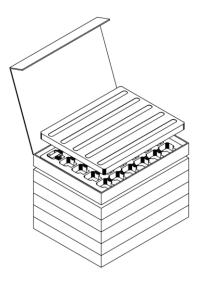
# Inductor for Digital AMP CPD1415B Series

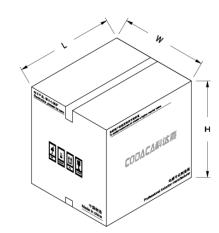
## **5 Packing Specification**

5.1 Plastic Tray Dimensions (mm)



### 5.2 Packing(mm)





L typ	W typ	H typ	No. of Inner Carton	Packaging Unit( Pcs)	Material
275	232	261	6	480	Paper

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### 6 Notice of Use

- 6.1 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.
- 6.2 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.
- 6.3 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.
- 6.4 Do not keep products in unsuitable storage conditions, such as areas susceptible to high temperatures, high humidity, dust or corrosion.
- 6.5 Always handle products with care.
- 6.6 Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering.
- 6.7 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.
- 6.8 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.
- 6.9 Hi-Pot test with higher voltage than spec value will damage insulating material and shorten its life.
- 6.10 If using in potting compound, the magnet wire coating might be damaged, please consult with us.
- 6.11 Refrain from rinsing coils. If necessary, please consult with us.
- \*6.12Codaca 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 view electronic or higher application field related to safety when without being aware of it.

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