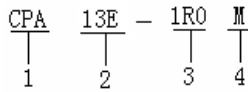


## CPA13系列 CPA13 Series

### 产品标示 Product Indication



1. 产品类型: CPA系列。
2. 外观尺寸:13表示宽13.0mm、E表示高9.5mm、N表示高11.0mm。
3. 电气特性表示:1R0表示1.0uH。
4. 允许公差:M表示±20%。

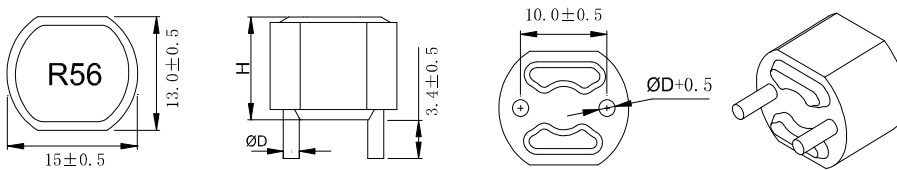


1. Product Type: CPC Series.
2. External Dimensions:13 for Width 13.0mm、E for Height 9.5mm、N for Height 11.0mm.
3. Electrical Code:1R0 for 1.0uH.
4. Tolerance:M for ±20%.

### 特性 & 应用 Features & Applications

1. 一体成型、直插式圆铜线绕制构造。
  2. 低电阻、低损耗、小体积大电流设计。
  3. 磁性屏蔽结构, 工作频率范围高达1MHz以上。
  4. 使用低损耗的合金系磁性粉末压铸成型, 可避免噪音产生。
  5. 在高频和高温环境下具有良好的直流电流特性。
  6. 无铅产品, 符合环保指令。
  7. 最适用于个人电脑和分配电源系统以及电压调节模块等的DC-DC升降压转换的应用。
  8. 可按照客户工程需要, 并根据Power最小损耗来选用不同的合金系磁性粉末进行设计和压铸生产, 但仅限漆包线直径在0.5mm~1.7mm之间的绕制范围。
1. Composite forming, DIP type copper ribbon round wire structure.
  2. Low DCR, lower loss, low profile package with large current design.
  3. Magnetically shielded construction, High frequency range up to 1MHz.
  4. The use low loss of magnetic iron powder core die-castine forming, avoid ultra low buzz noise.
  5. Good DC current characteristics in high frequency and high temperature.
  6. Lead free products, RoHS compliant.
  7. Personal computers and distributed power systems or VRM applications for DC-DC converter ent .
  8. Can choose different magnetic alloy power to design and produce by the way of die-casting in accordance with customer demands and the minimum loss of power . But only for the wire with diameter of 0.50mm ~1.7mm to be wound.

### 外形尺寸(单位:mm) & 电气性能 Shape and Dimensions(Unit:mm) & Electrical Characteristics



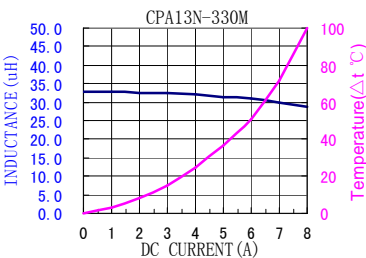
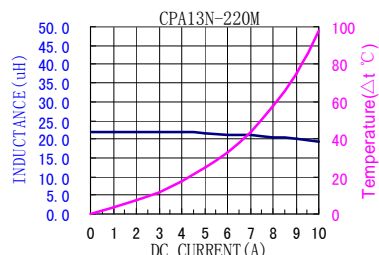
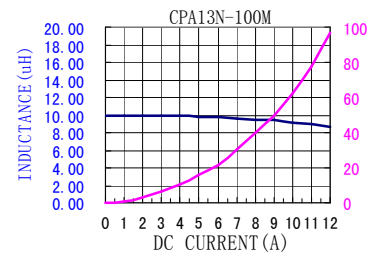
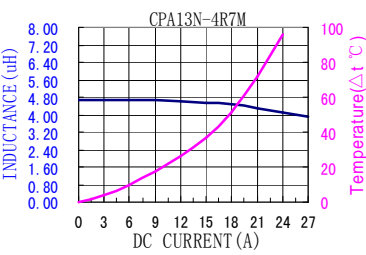
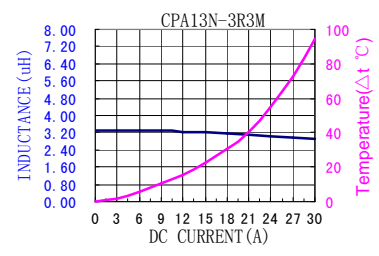
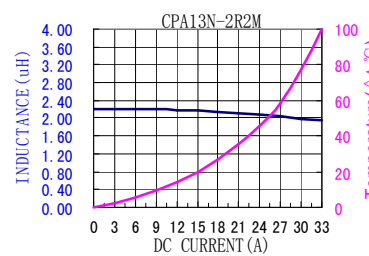
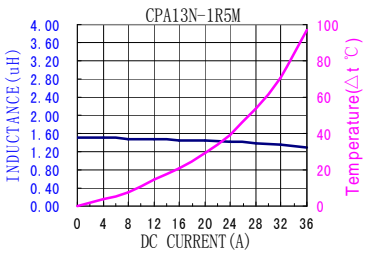
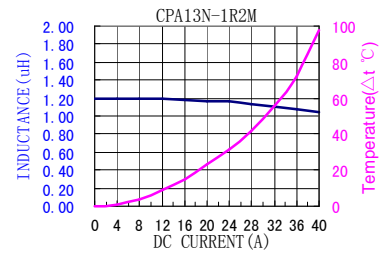
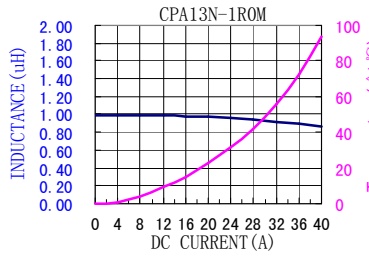
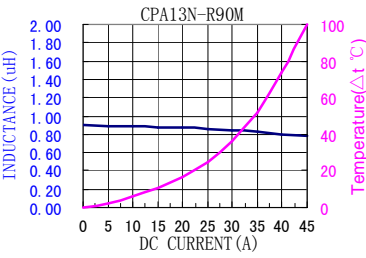
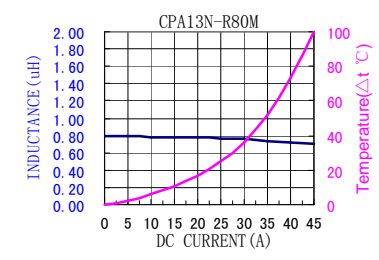
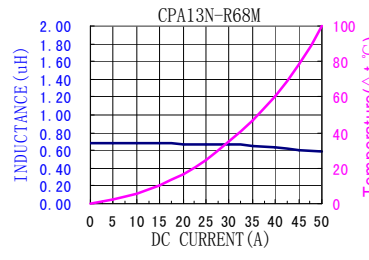
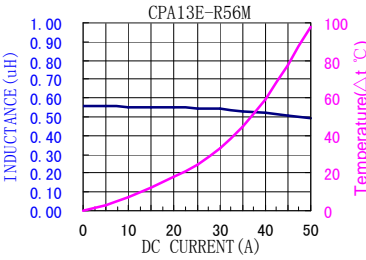
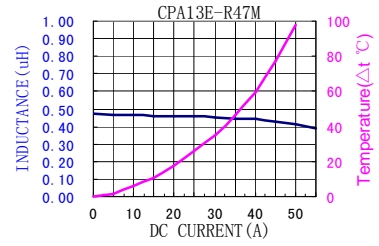
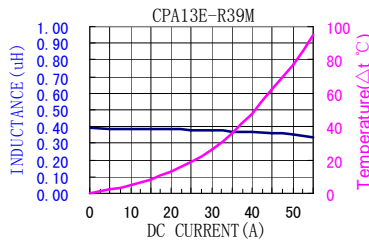
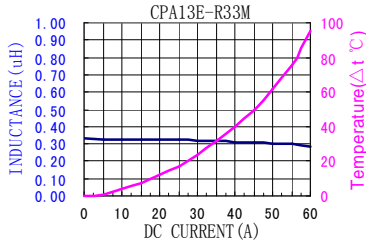
H=9.0mm max. :CPE13E  
 H=10.0mm max. :CPE13N  
 H=11.0mm max. :CPE13L  
 ØD: 1.7~1.2mm±0.2mm

产品编号 Part No.	电感值 Inductance L(uH)±20%	直流电阻 DC Resistance(mΩ)		温升电流 Heat Rated Current (A) Max	饱和电流 Saturation Current (A) Max	线材直径 Wire Diameter (mm) Ref
		Typical	Max			
CPA13E-R33M	0.33	0.60	0.70	37.0	60.0	1.70
CPA13E-R39M	0.39	0.60	0.70	37.0	54.0	1.70
CPA13E-R47M	0.47	0.70	0.80	36.0	50.0	1.70
CPA13E-R56M	0.56	0.70	0.80	36.0	50.0	1.70
CPA13N-R68M	0.68	0.80	0.90	34.0	48.0	1.70
CPA13N-R80M	0.80	0.90	1.00	32.0	45.0	1.70
CPA13N-R90M	0.90	0.90	1.00	32.0	45.0	1.70
CPA13N-1R0M	1.00	1.20	1.40	27.0	40.0	1.50
CPA13N-1R2M	1.20	1.20	1.50	26.0	40.0	1.50
CPA13N-1R5M	1.50	1.20	1.80	23.5	35.0	1.50
CPA13N-2R2M	2.20	2.10	2.50	20.0	32.0	1.30
CPA13N-3R3M	3.30	3.10	3.70	16.5	30.0	1.20
CPA13N-4R7M	4.70	6.00	7.20	12.0	24.0	1.00
CPA13N-100M	10.00	10.00	12.00	9.0	12.0	1.00
CPA13N-220M	22.00	20.00	24.00	6.5	9.5	0.80
CPA13N-330M	33.00	36.00	43.00	5.0	8.0	0.65

1. 除上述常用类型外特殊要求也可以满足。 Special requirement besides the above common used types can be meet.
2. 测试仪器:HP4286A或同等LCR仪器设备, 电感测试条件为200KHz/0.1V。  
Testing instrument:HP4286A or LCR Meter equivalent, Inductance testing condition:200KHz/0.1V.
3. 温升电流(Irms)是指线圈温度上升ΔT=40℃时的电流值。(以周围温度25℃为基准)  
Heat rated current(Irms): Temperature rise current based upon ΔT=40℃!ac temperature rise.(Reference ambient temperature25℃!at)
4. 饱和电流(Isat)是指在直流电流通过后电感值比初始值少20%时的直流电流值。  
Saturation current(Isat): Inductance decrease current based upon 20% inductance reduction from the initial value.(Reference ambient temperature25℃!at)
5. 操作温度范围-55℃ to +125℃。 Operating Temperature Range -55℃ to +125℃.



**电流特性曲线图 Current Characteristic Curves**



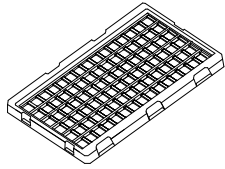
**注意! Note!**

1. 本产品目录所列之特性曲线和参数只是我司产品作为一个单体时的质量情况， 仅仅作为技术数据参考， 当我司产品被安装到贵司产品上时请保证我司产品已依贵司的规范进行了有效的评估和确认。  
The curve and parameter of products listed in the catalog embody the quality of single one.  
Only for reference. Please guarantee our products have been assessed and recognized effectively according your norm when install it.
2. 如果您要在非常严格的信赖性标准下使用我公司产品时, 请您详细询问我公司销售人员。  
If the products be used in very strict & reliable standard condition, please inquire our salesman.

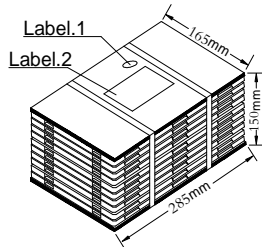


## 包装 Packaging

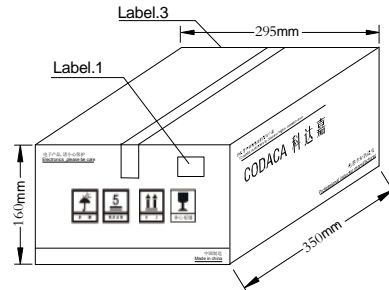
包装尺寸 & 数量 Packing Dimensions(Ref) Unit:mm &



80 Pcs/Plate  
80 PCS/每盘



10 Plate/a bundle Total:800 PCS  
10盘为1捆 总计: 800 PCS



2 Bundles/Carton Total 1600 PCS  
2捆/每箱 总计:1600 PCS

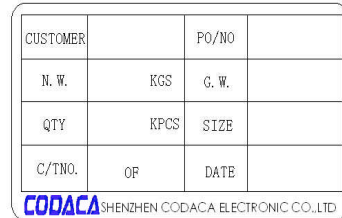
## 专用的标识方法 Special Marking



Label-1



Label-2



Label-3

## 销售标签说明 Production Label Instruction

以下是科达嘉的生产和出货标签的相关事项

The following for CODACA and shall be marked on the production and shipping label on items

### Production Label (生产标签说明)

- 1.Part.No. 订单编号
- 2.Description 名称描述
- 3.Quantity 数量
- 4.Date of production 生产日期

### Shipping Label (出货标签说明)

- 1.Customer's name 客户名称
- 2.Customer's part No. 客户订单号
- 3.Manufacturer's part No. 制造单号
- 4.Manufacturer's name 制造商名称
- 5.Manufacturer's Country 制造国

注意 (1) 和 (2) 所列要求。 Note:Item 1 and 2 are listed by request.

## 使用注意事项 Care Note for

### 1. 贮藏条件: Storage Condition:

温度25~35℃、湿度45~85%。 temperature 25 to 35℃、Humidity45 to 85% RH.

### 2. 使用温度 Use temperature:

● 最低温度: 零下55℃(包括周边环境温度)。 Minimum temperature:-55℃ ambient temperature of power choke coil.

● 最高温度:125℃(包括周边变压器和其线圈的温升)。

Maximum temperature: +125℃ the value of temperature including ambient of the transformer and temperature rise of power choke coil.

● 在零下-55℃和+125℃之间可进行信赖性测试没问题, 但并不意味着其温度等级达到了UL要求。

There is not a problem from-55℃~+125℃ in a reliability test however, this is not meant a temperature grade guarantee of UL.

### 3. 如果该线圈经受诸如跌落等机械应力时, 它的特性可能会变弱(因为线体会受损), 不可再使用受损的线圈。

If the power choke coil suffered mechanical stress such as drop, may become poor (due to damage on coilbobbin,ets), never use such stressed power choke coil.

### 4. 如果产品需要洗涤, 请咨询我公司, 因为当要用洗涤机器清洗该线圈时, 可信的确认是必要的。

Please consult our company once in case of this because the confirmation of reliability etc.is needed when the washing medicine is used for the power choke coil.



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