

2 料号定义 Part Number Definition

<u>DR</u>	<u>0810</u>	-	<u>102</u>	<u>K</u>
①	②		③	④

- ① 产品系列 Product Symbol
- ② 产品尺寸 Dimensions
- ③ 电感量 Inductance (102=1.0mH)
- ④ 公差范围 Inductance Tolerance (K=±10%)

3 产品特性 Product features



- ① 高可靠性，电感值一致性好。

High reliability, high consistency inductance.

- ② 整体包覆在 UL 热缩套管内，提供极佳的机械和环境保护。

Core is encapsulated by UL heat shrink tube to provide excellent mechanic and environmental protection.

- ③ 饱和电流高。

High saturation current.

- ④ 无铅产品，符合 RoHS 指令。

Lead free product, RoHS compliant.

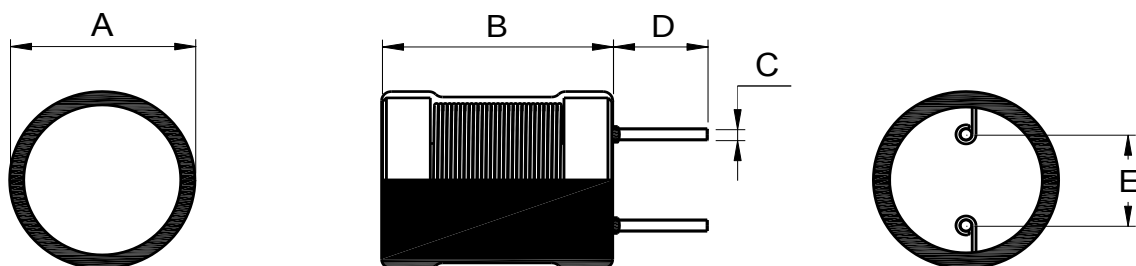
- ⑤ 适用于电源，DC-DC 转换器，电脑及其外围设备，空调，家用电器等。

Widely used in power supply, DC-DC converter, computer and peripherals, air-condition, home electric appliance, and etc.

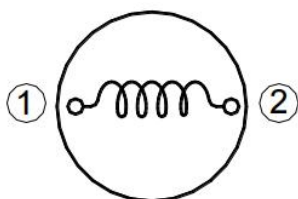
- ⑥ 工作温度：-40℃ ~ +125℃ (包含线圈发热)。

Operating temperature : -40℃ ~ +125℃ (Including coil's temperature rise).

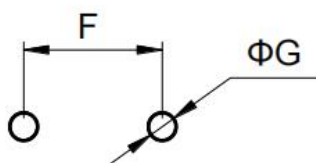
4 外形尺寸 External dimensions (mm)



原理图
Schematic



参考焊孔尺寸
Reference hole pattern



系列 Type	A	B	C	D Ref	E	F	G
DR0406	5.5Max	9.0Max	0.5±0.1	4.0±1.0	2.0±0.5	2.0Typ	0.8Typ
DR0507	6.5Max	10.0Max	0.6±0.1	4.0±1.0	2.5±0.5	2.5Typ	0.9Typ
DR0608	7.5Max	11.0Max	0.6±0.1	4.0±1.0	3.0±0.5	3.0Typ	0.9Typ
DR0810	9.5Max	13.0Max	0.6±0.1	4.0±1.0	5.0±0.5	5.0Typ	0.9Typ
DR0912	10.5Max	15.0Max	0.65±0.1	4.0±1.0	5.0±0.5	5.0Typ	1.0Typ
DR1016	12.0Max	19.0Max	0.8±0.1	5.0±1.0	6.0±0.5	6.0Typ	1.2Typ
DR1216	14.0Max	19.0Max	0.8±0.1	5.0±1.0	7.5±0.5	7.5Typ	1.2Typ

规格 型号 Part No.	L (μH)	饱和电流 Isat(A)							直流电阻 DCR(Ω) Max						
		0406	0507	0608	0810	0912	1016	1216	0406	0507	0608	0810	0912	1016	1216
100K	10	1.5	2.3	2.8	4.8	6.0	6.5	10.0	0.072	0.054	0.040	0.029	0.022	0.019	0.018
120K	12	1.4	2.1	2.5	4.3	5.5	6.0	9.1	0.084	0.060	0.042	0.031	0.026	0.020	0.019
150K	15	1.2	1.9	2.3	3.9	5.0	5.3	8.2	0.110	0.066	0.058	0.034	0.029	0.022	0.020
180K	18	1.1	1.7	2.1	3.5	4.5	4.9	7.5	0.12	0.084	0.064	0.041	0.031	0.023	0.022
220K	22	1.0	1.5	1.9	3.2	4.1	4.4	6.8	0.15	0.10	0.072	0.047	0.037	0.029	0.025
270K	27	0.93	1.4	1.7	2.9	3.7	4.0	6.1	0.17	0.12	0.090	0.059	0.041	0.031	0.028
330K	33	0.84	1.3	1.5	2.6	3.3	3.6	5.5	0.20	0.13	0.110	0.065	0.050	0.037	0.030
390K	39	0.77	1.2	1.4	2.4	3.1	3.3	5.1	0.24	0.17	0.12	0.072	0.055	0.041	0.034
470K	47	0.70	1.1	1.3	2.2	2.8	3.0	4.6	0.29	0.19	0.15	0.094	0.070	0.049	0.042
560K	56	0.64	1.0	1.2	2.0	2.6	2.8	4.2	0.32	0.24	0.19	0.11	0.076	0.054	0.046
680K	68	0.58	0.90	1.1	1.8	2.3	2.5	3.8	0.40	0.26	0.21	0.13	0.10	0.06	0.054
820K	82	0.53	0.80	1.0	1.7	2.1	2.3	3.5	0.48	0.34	0.26	0.15	0.11	0.08	0.066
101K	100	0.48	0.75	0.88	1.5	1.9	2.1	3.2	0.59	0.39	0.29	0.17	0.14	0.09	0.074
121K	120	0.44	0.65	0.80	1.4	1.8	1.9	2.9	0.73	0.49	0.56	0.21	0.16	0.12	0.09
151K	150	0.39	0.60	0.72	1.2	1.6	1.7	2.6	0.84	0.61	0.44	0.26	0.22	0.13	0.12
181K	180	0.36	0.55	0.66	1.1	1.4	1.5	2.4	1.01	0.73	0.56	0.29	0.23	0.16	0.12
221K	220	0.32	0.50	0.59	1.0	1.3	1.4	2.1	1.3	0.9	0.65	0.37	0.26	0.18	0.16
271K	270	0.29	0.45	0.54	0.92	1.2	1.25	1.9	1.7	1.0	0.78	0.47	0.34	0.24	0.18
331K	330	0.26	0.40	0.48	0.83	1.05	1.15	1.7	1.9	1.3	0.95	0.60	0.42	0.28	0.24
391K	390	0.24	0.38	0.45	0.76	0.97	1.05	1.6	2.4	1.6	1.13	0.67	0.46	0.36	0.26
471K	470	0.22	0.34	0.41	0.69	0.89	0.95	1.5	2.6	1.9	1.4	0.79	0.59	0.41	0.35
561K	560	0.20	0.30	0.37	0.64	0.81	0.87	1.3	3.4	2.2	1.7	1.0	0.73	0.46	0.40
681K	680	0.18	0.28	0.34	0.58	0.74	0.79	1.2	4.4	2.8	2.0	1.3	0.82	0.58	0.53
821K	820	0.17	0.25	0.31	0.53	0.67	0.72	1.1	5.0	3.4	2.5	1.4	1.0	0.7	0.59
102K	1000	0.15	0.23	0.28	0.48	0.61	0.65	1.0	6.7	4.4	3.1	1.7	1.3	0.8	0.67
152K	1500	0.12	0.18	0.23	0.39	0.50	0.53	0.82	8.5	6.5	5.0	2.5	1.8	1.3	1.1
222K	2200	0.10	0.15	0.19	0.32	0.41	0.44	0.67	13.0	9.5	7.3	3.8	2.8	1.8	1.6
332K	3300	0.08	0.12	0.15	0.26	0.33	0.36	0.55	21.0	14.5	11.0	5.9	4.1	2.9	2.3
472K	4700	0.07	0.10	0.13	0.22	0.28	0.30	0.46	34.0	21.5	18.5	8.2	6.0	4.1	3.2
103K	10000	0.05	0.06	0.09	0.15	0.19	0.21	0.32	73.0	56.0	35.5	18.5	12.5	8.6	7.1

(1)电感量的公差:Tolerance of Inductance N=±30%,M=±20%,K=±10%,J=±5%

(2)电感的测试条件:1KHz,0.3V. Inductance is tested at 1KHz,0.3V.

(3)所有的测试资料是在25℃的环境温度下测试. All test data is referenced to 25℃ ambient.

(4)使用温度范围-40℃到+125℃ . Operating Temperature Range-40℃ to +125℃ .

(5)饱和电流: 电感值下降其初始值的20%所加载的实际直流电流值.

Saturation current: the value of DC current when the inductance decrease 20% of its initial value.

6 材料清单 Bill of Materials

序号 NO.	名称 ITEM	材料描述 Material description	制造商 MANUFACTURER	温度/阻燃等级 TEMP.RATING FLAME CLASS	UL NO.
1	磁芯 CORE	NiZn Ferrite core	JIACI		
2	漆包线 WIRE	2UEW	JINTIAN	155℃	E227047
3	针脚 PIN	CP	BAICHUAN		
4	胶黏剂 EPOXY	DZ-6	JINGDINGSHENG		
5	锡 Tin	Sn:99.3%/Cu:0.7%	SONGBEN		
6	套管 TUBE	X-2	XINGQI	125℃	E350991

7 质量要求 Quality requirements

① 绕线需平整、均匀、紧密，线材不得刮伤受损。

The winding must be smooth, even and tight, and the wire must not be scratched or damaged.

② 线头缠绕 PIN 针不少于 0.8 圈，目测产品表面不得有锈蚀、裂痕或其它机械性损伤，线圈、磁芯及配件应装配牢固。

The thread end should be wrapped around the PIN needle for no less than 0.8 turns, Visual inspection shows that there should be no rust, cracks or other mechanical damage on the surface of the product. The coil, core and accessories should be firmly assembled.

③ 引脚沾锡需均匀，光亮，PIN 长不包含锡尖。

The pins must be tinned evenly and brightly, and the PIN length does not include the tin tip.

④ 产品生产中必须全数进行电气性能检测。

Electrical performance testing must be carried out on all products during production.

⑤ 产品出货前按批次，必须根据承认书按国家行业标准进行抽样检验。

Before the products are shipped, they must be sampled and inspected in batches according to the national industry standards based on the letter of approval.

8 包装 Package

① 包装箱上标明产品型号、名称、数量、出厂日期。

The product model, name, quantity and production date are marked on the packaging box.

② 不同生产周期的同一产品不得放入同一包装箱内。

The same product from different production cycles must not be placed in the same packaging box

③ 货物运达客户方后，包装箱封条应完好，箱体无破损、开裂等现象。

After the goods arrive at the customer, the seal of the packaging box should be intact, and the box should not be damaged or cracked.

④ 开箱后，箱内包装材料无破损，不满一箱应加垫填充物。

After unpacking, the packaging materials in the box are not damaged, and padding should be added if the box is less than one box.

9 储存条件/注意的事项 Storage conditions/Note things

① 存储条件：温度-10~40℃ 相对湿度：30~70%。

Storage conditions: temperature -10~40℃, relative humidity: 30~70%.

② 产品在 12 个月内使用(注意:产品一经拆开包装,须尽快使用)。

Products should be used within 12 months.(Note that the product should be used as soon as possible once it is folded) .

③ 禁止将产品保管在腐蚀性物质中，如硫磺，氯气或酸，否则将引起端头氧化，导致降低焊接性。

Do not store the product in corrosive substances such as sulfur, chlorine or acid, otherwise it will cause oxidation of the end and reduce weldability.

④ 为了避免受潮气，灰尘等物质的影响，产品应保管于货架上。

In order to avoid being affected by moisture, dust and other substances, the products should be kept on the shelves.

⑤ 产品保管在库房中，应避免热冲击，振动以及直接光照等。

The products are stored in the warehouse and should be protected from thermal shock, vibration and direct sunlight.

⑥ 当本公司的产品使用在一般电子设备以外的领域时，由此所引发的设备失效我司将不承担任何法律责任。

In case of using the product for the purpose other than general electronics devices, we shall not be held liable for any dysfunctions in or damage to the equipment with which the product is used.

⑦ 本承认书只保证我司产品作为一个单体时的质量情况，当我司产品被安装到贵司产品上时，请贵司对使用在贵司电路上的产品情况进行了有效评价和确认。

Our specification limits the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.