

零件承认书

SPECIFICATION FOR APPROVAL

客户名称：001

增益型号：PK0608-102MB

规格描述：DR6*8 1mH 饱和电流2A $\pm 20\%$ UL套管 脚长5mm

日期：2024/9/17

版本：A

增益签核：

制订	审核	核准
夏琳		李万

客户签核：

工程	审核	核准



东莞市增益实业有限公司

地址：东莞市塘厦镇林村塘厦大道北552号

电话：0769-87321000

传真：0769-87891229

物料类型：

工字电感

日期：

2024/9/17

版本：

A



PK series Spike suppression coil

◆特征:

- 低成本
- 具有高功率, 高饱和和低电阻
- 非屏蔽功率电感
- 磁芯由 UL 热缩管包覆以提供优良的机械和环境保护
- 多种封装尺寸和宽电感范围
- 编带包装可用于自动插件
- 符合 RoHS, 无卤和 REACH

Features:

- Low cost
- High power, High saturation, Low resistance
- Unshielded power inductor
- Core is encapsulated by UL heat shrink tube to provide excellent mechanic and environmental protection
- Various package size and wide inductance range
- Tape packaging for auto-insertion
- RoHS, Halogen Free and REACH Compliance

◆用途:

- 电视和音响设备
- 通信设备
- 噪声滤波器
- 充电器, 快充
- DC/DC 转换器

Applications:

- TVs and Audio equipment
- Telecommunication devices
- Other noise filter
- Charger, fast charge
- DC/DC converters

◆环境:

- 工作温度: -40°C 至 $+125^{\circ}\text{C}$
(包括线圈自身温升)

Environmental Data:

- Operating Temperature: -40°C to $+125^{\circ}\text{C}$
(Including coils self-temperature rise)

◆试验设备:

- 电感值: HP4284A, HP4285A 或同等仪器
- 电流: HP4284+42841A
- 自谐振频率: HM 9461
- 品质因子: HP4285A
- 直流电阻: Chroma 16502 或同等仪器

Test Equipment:

- L: HP4284A or HP4285A LCR meter or equivalent
- Isat & Irms: HP4284+42841A
- SRF: HM 9461
- Q: HP4285A
- DCR: Chroma 16502 or equivalent

◆产品型号注释:

<u>PK</u> ①	<u>0608</u> ②	<u>102</u> ③	<u>K</u> ④	<u>UL</u> ⑤	<u>TF</u> ⑥
①		②			③
类型 Type		外形尺寸(L×W×H) (mm) External Dimensions (L×H) (mm)			Inductance
PK	径向引线固定电感 Raial Leded Fixed Inductors		0608		1mH
	I		7.0×11.5		

④

公差 Inductance Tolerance
J:±5%,K: ±10%, L: ±15% M: ±20%,P: ±25%, N: ±30%

⑤

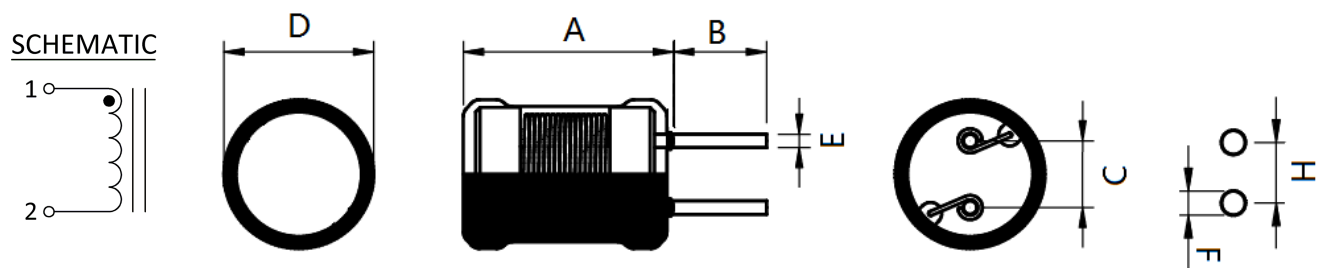
套管 UL	
UL	Black UL125°C Tube
no code	No UL

⑥

包装 Packing	
B	散装 Bulk Package
TF	编带 Tape

◆外观尺寸:

Shape and Dimensions(dimensions are in mm):



Marking is available if needed

如果需要，产品可印字

Reference
holepattern

Part No	ITEM						
	A	B	C	D	E	F	H
PK0608	11.5 Max	5.0 Min	2.5±0.5	7.5 Max	0.65±0.1	0.95	2.5



◆规格特性:

Specifications:

● PK0608 Series Electrical Characteristics (Electrical specifications at 25℃)

Part No	Inductance		Q		SRF	DCR	Rated Current
	L(μH) '@1KHz	Tole	Min	Test Freq.	(MHz) Min	(Ω) Max	(mA) Max
PK0608-3R3M-□□	3.3	M	20	7.96MHZ	40.0	0.016	3500
PK0608-4R7M-□□	4.7	M	20	7.96MHZ	36.0	0.020	3000
PK0608-6R8M-□□	6.8	M	20	7.96MHZ	32.0	0.022	2500
PK0608-100M-□□	10	M	30	2.52MHZ	23.0	0.039	2000
PK0608-150M-□□	15	M	30	2.52MHZ	19.0	0.045	1700
PK0608-220M-□□	22	M	30	2.52MHZ	16.0	0.062	1400
PK0608-330M-□□	33	M	30	2.52MHZ	11.0	0.10	1100
PK0608-470M-□□	47	M	30	2.52MHZ	9.5	0.15	950



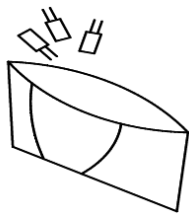
Part No	Inductance		Q		SRF	DCR	Rated Current
	L(μH) '@1KHz	Tole	Min	Test Freq.	(MHz) Min	(Ω) Max	(mA) Max
PK0608-680M-□□	68	M	30	2.52MHZ	9.0	0.22	800
PK0608-101K-□□	100	K	20	796KHZ	6.5	0.35	650
PK0608-151K-□□	150	K	20	796KHZ	5.5	0.43	540
PK0608-221K-□□	220	K	20	796KHZ	4.8	0.90	440
PK0608-331K-□□	330	K	20	796KHZ	3.7	1.50	350
PK0608-471K-□□	470	K	20	796KHZ	2.8	1.80	300
PK0608-681K-□□	680	K	20	796KHZ	2.5	2.50	250
PK0608-102K-□□	1000	K	100	252KHZ	2.1	3.20	200
PK0608-122K-□□	1200	K	70	252KHZ		3.50	180
PK0608-182K-□□	1800	K	70	252KHZ		5.00	155
PK0608-222K-□□	2200	K	70	252KHZ		6.80	140
PK0608-272K-□□	2700	K	70	252KHZ		7.20	125
PK0608-332K-□□	3300	K	70	252KHZ		10.50	115
PK0608-392K-□□	3900	K	70	252KHZ		11.70	105
PK0608-472K-□□	4700	K	70	252KHZ		13.60	95
PK0608-562K-□□	5600	K	70	252KHZ		16.60	85
PK0608-682K-□□	6800	K	70	252KHZ		19.60	80
PK0608-822K-□□	8200	K	70	252KHZ		25.20	70
PK0608-103K-□□	10000	K	70	79.6KHZ		29.50	65
PK0608-123K-□□	12000	K	50	79.6KHZ		33.80	60
PK0608-153K-□□	15000	K	50	79.6KHZ		45.40	55
PK0608-183K-□□	18000	K	50	79.6KHZ		50.40	50
PK0608-223K-□□	22000	K	50	79.6KHZ		80.00	45
PK0608-303K-□□	30000	K	50	79.6KHZ		91.50	40
PK0608-333K-□□	33000	K	50	79.6KHZ		98.50	35
PK0608-393K-□□	39000	K	50	79.6KHZ		140.00	32
PK0608-473K-□□	47000	K	50	79.6KHZ		160.00	30
PK0608-503K-□□	50000	K	50	79.6KHZ		170.00	29
PK0608-563K-□□	56000	K	50	79.6KHZ		250.00	28
PK0608-683K-□□	68000	K	50	79.6KHZ		282.00	25
PK0608-823K-□□	82000	K	50	79.6KHZ		312.00	23
PK0608-104K-□□	100000	K	30	25.2KHZ		380.00	20
PK0608-124K-□□	120000	K	30	25.2KHZ		430.00	18
PK0608-154K-□□	150000	K	30	25.2KHZ		520.00	16

- Saturation Current: DC current at which inductance drops 10% from its value without current
- Temperature Rise Current: the actual value of DC current when the temperature rise isΔT 40℃ (Ta=25℃)
- Rated DC Current: The less value which is Isat or Irms
- Special remind:Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application



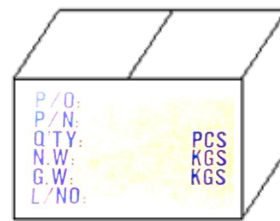
◆产品包装:

- In bag pakeage



PE 袋

Packaging:

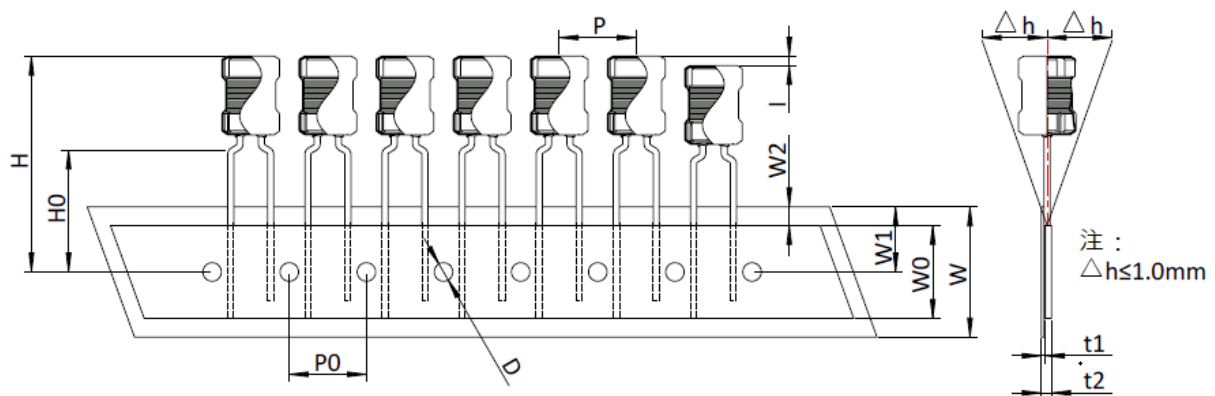


Outside Carton

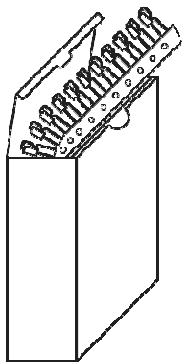
不足整箱用内盒或填充物装满

Part No.	PE 胶袋每袋数量	外箱
PK0406	1000PCS	20,000PCS
PK0608	1000PCS	20,000PCS
PK0707	500PCS	10,000PCS
PK0807	500PCS	10,000PCS
PK0810	500PCS	10,000PCS
PK0912	200PCS	4000PCS
PK1010	200PCS	4000PCS
PK1012	200PCS	4000PCS
PK1018	200PCS	4000PCS
PK1213	200PCS	4000PCS

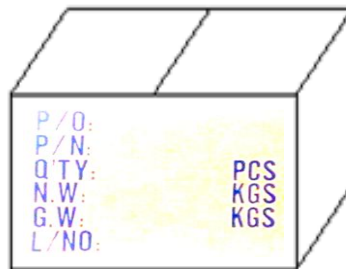
● Tape Specifications(mm)



W	W0	W1	W2	P	P0	H	H0	D	t1	t2	
18±1.0	12.5min	9.0±0.5	3.0max	12.7±1.0	12.7±0.3	32.0max	16.0min	4.0±0.3	0.35~0.6	0.86~1.5	



INSIDE BOX



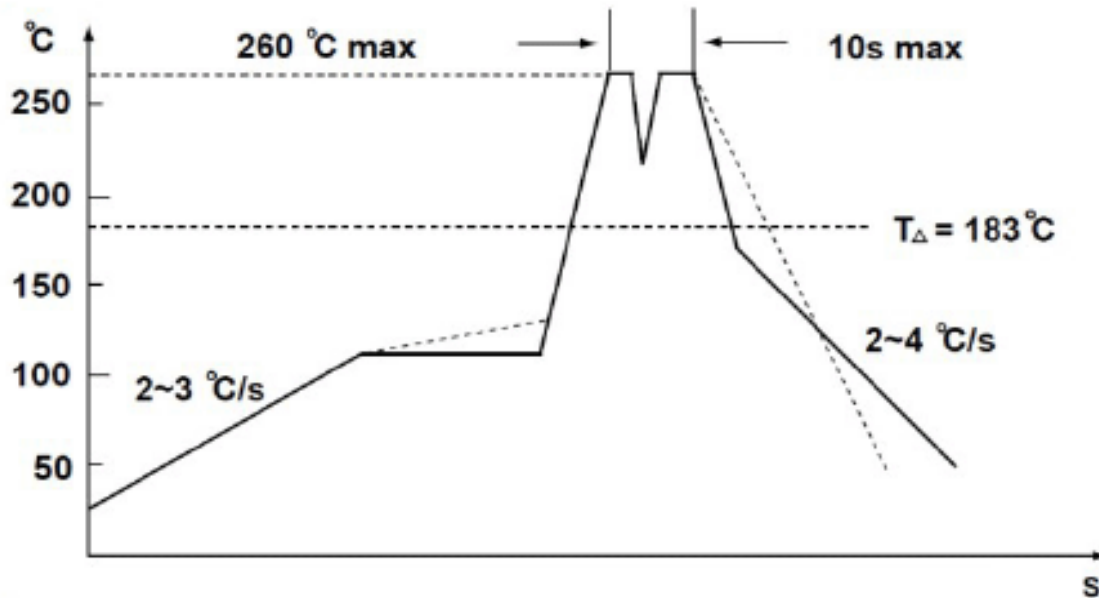
Outside Carton
不足整箱用内盒或填充物装满

Part No.	INSIDE BOX	外箱
PK0406	1000PCS	10,000PCS
PK0608	750PCS	7500PCS
PK0707	750PCS	7500PCS
PK0807	600PCS	6000PCS
PK0810	600PCS	6000PCS
PK0912	500PCS	5000PCS
PK1010	500PCS	5000PCS
PK1012	500PCS	5000PCS



◆推荐无铅波峰焊接曲线:

Lead-free the recommended Wave soldering (DIP-TYP) :



The recommended reflow conditions as above graph, is set according to our soldering equipment. DUE to various manufactures may have different reflow soldering equipment, products, process conditions, set methods. And so on, when setting the reflow conditions, Please adjust and confirm according to users' environment/equipment.



使用注意事项

REMINDERS FOR USING THESE PRODUCTS



- 保存时间为12 个月以内，保存条件（温度5~40°C以下、湿度35 ~ 66%RH 以下），需充分注意。
若超过保存时间，端子电极的可焊性将可能老化。

The storage period is within 12 months. Be sure to follow the storage conditions (temperature: 5~40°C, humidity: 35 to 65% RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.

- 请勿在气体腐蚀环境（盐、酸、碱等）下使用和保存。

Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).

- 手上的油脂会导致可焊性降低，应避免用手直接接触端子。

Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering.

- 请小心轻拿轻放,避免由于产品的跌落或取出不当而导致的损坏。

Please always handle products carefully to prevent any damage caused by dropping down or inappropriate removing.

- 端子过度弯曲会导致断线,请不要过度弯曲端子。

Don't bend the terminals with excessive stress in case of any wire fracture.

- 不要清洗产品，如需要清洗时请联系我司。

Don't rinse coils by yourself and please contact ZE if necessary.

- 请勿将本产品靠近磁铁或带有磁力的物体

Don't expose the products to magnets or magnetic fields

- 在实施焊接前，请务必进行预热。预热温度与焊接温度及芯片温度的温度差要在150°C 以内。

Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.

- 安装后的焊接修正应在规格书规定的条件范围内。若加热过度可能导致短路、性能降低、寿命减少。

Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.

- 装置会因通电而自我发热（温度上升），因此在热设计方面需留有充分余地。

Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.

- 非磁屏蔽型在基板设计时需注意配置线圈，受到电磁干扰可能会导致误动作。

Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.

- 当本公司产品使用在一般电子设备以外的场合,如:车载,医疗设备,军用,航空航天等,请务必联系本公司营业部门,如超出本公司产品使用条件而引起的机器故障时,本公司概不负责。

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