



# 承认书

## Approval Sheet

客户名称:

Customer

/

产品名称:

屏蔽贴片功率电感器

Part Name

DIP Inductor

产品规格:

Specification

JPK Series

版本号:

Version No.

A/0

日期:

Date


2020-7-3

制造Manufacturer			客户Customer		
拟制	审核	确认	检验	审核	批准
Draft by	Checked by	Approve by	Check by	Checked by	Approval by
周昶	杨岚	唐涛			



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## 产品指南 Products Guide

Description	Model	P/N	Package Size	Inductance Range(uH)	DCR Max.(Ω)	Rated Current(A)Max
DIP Inductor插件电感器		JPK	0406	1-25000	0.035-180	20-2000
			0608	3.3-150000	0.016-520	16-3500
			0707	1-1500	0.006-5	170-6600
			0807	2.2-1500	0.011-3.5	210-5500
			0810	3.3-100000	0.012-180	28-5000
			0912	3.3-33000	0.017-45	0.04-4.8
			1010	3.3-15000	0.01-24	120-5900
			1012	10000-100000	12-135	45-170
			1018	4.7-100000	0.008-89.7	60-6000
			1213	10-10000	0.023-10	240-5100

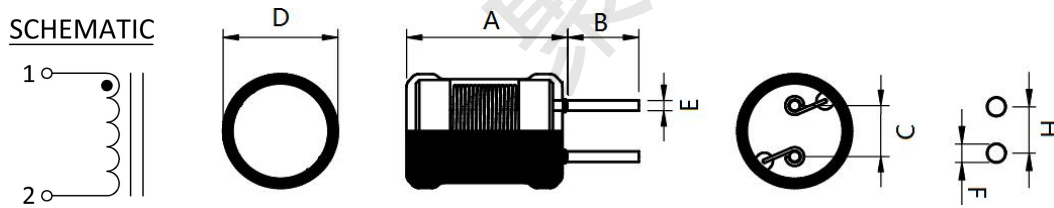
### Characteristics特征

- 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 and 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。

### Application应用

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

## 形状和尺寸 Shape And Dimensions (Unit: mm)



Part No	ITEM						
	A	B	C	D	E	F	H
JPK0406	8.0 Max	15.0 Min	2.0±0.5	5.5 Max	0.55±0.1	0.85	2
JPK0608	11.0 Max	15.0 Min	2.5±0.5	7.5 Max	0.65±0.1	0.95	2.5
JPK0707	9.5 Max	15.0 Min	5.0±0.5	8.5 Max	0.65±0.1	0.95	5
JPK0807	9.5 Max	15.0 Min	5.0±0.5	10.0 Max	0.65±0.1	0.95	5
JPK0810	13.0 Max	15.0 Min	5.0±0.5	10.0 Max	0.65±0.1	0.95	5
JPK0912	15.0 Max	15.0 Min	5.0±0.5	12.0 Max	0.80±0.1	1.1	5
JPK1010	13.0 Max	15.0 Min	5.0±0.5	12.0 Max	0.80±0.1	1.1	5
JPK1012	15.0 Max	15.0 Min	6.0±0.5	12.0 Max	0.80±0.1	1.1	6
JPK1018	21.0 Max	15.0 Min	6.0±0.5	12.0 Max	0.80±0.1	1.1	6
JPK1213	16.0 Max	15.0 Min	7.5±0.5	14.0 Max	0.80±0.1	1.1	7.5

### Product Spec. Model 产品品名构成

JPK      0608      503      K  
(1)          (2)          (3)          (4)

(1) Product symbol 系列代号

(2) Dimensions 外形尺寸

(3) Inductance 电感量: 1R0:1.0μH 100:10μH 101:100μH 1;

(4) Tolerance 公差: J/K/L/M/N 5% /10% /15% /20% /30%;

## Specifications规格

### JPK0406 Series

Part No	Inductance		Q		SREF	DCR	Rated Current
	L(μH)'@0A	Tole	Min	Test Freq	(MHZ)Min	(Ω)Max	(A)Max
JPK0406-1R0M	1	M	100	7.96MHZ	120	0.035	2000
JPK0406-1R2M	1.2	M	100	7.96MHZ	120	0.058	1950
JPK0406-1R5M	1.5	M	100	7.96MHZ	120	0.075	1900
JPK0406-1R8M	1.8	M	100	7.96MHZ	120	0.11	1800
JPK0406-2R2M	2.2	M	100	7.96MHZ	100	0.12	1750
JPK0406-2R7M	2.7	M	100	7.96MHZ	80	0.125	1680
JPK0406-3R3M	3.3	M	100	7.96MHZ	75	0.13	1500
JPK0406-3R9M	3.9	M	100	7.96MHZ	70	0.135	1450
JPK0406-4R7M	4.7	M	100	7.96MHZ	50	0.14	1320
JPK0406-5R6M	5.6	M	100	7.96MHZ	45	0.145	1230
JPK0406-6R8M	6.8	M	100	7.96MHZ	30	0.15	1150
JPK0406-8R2M	8.2	M	100	7.96MHZ	22	0.16	1100
JPK0406-100M	10	M	80	2.52MHZ	20	0.23	1000
JPK0406-120M	12	M	80	2.52MHZ	17	0.24	970
JPK0406-150M	15	M	80	2.52MHZ	16	0.25	920
JPK0406-180M	18	M	80	2.52MHZ	12	0.33	860
JPK0406-220M	22	M	80	2.52MHZ	10	0.45	800
JPK0406-270M	27	M	80	2.52MHZ	9.5	0.5	710
JPK0406-330M	33	M	80	2.52MHZ	8.7	0.7	660
JPK0406-390M	39	M	70	2.52MHZ	8.2	0.74	600

### JPK0406 Series

Part No	Inductance		Q		SREF	DCR	Rated Current
	L(μH)@0A	Tole	Min	Test Freq	(MHZ)Min	(Ω)Max	(A)Max
JPK0406-470M	47	M	70	2.52MHZ	7.8	0.76	550
JPK0406-560M	56	M	50	2.52MHZ	7.6	0.8	500
JPK0406-680M	68	M	50	2.52MHZ	6.8	0.9	470
JPK0406-820M	82	M	50	2.52MHZ	6	0.95	430
JPK0406-101K	100	K	45	796KHZ	6	1	400
JPK0406-121K	120	K	45	796KHZ	5.5	1.1	370
JPK0406-151K	150	K	65	796KHZ	4.2	1.3	350
JPK0406-181K	180	K	65	796KHZ	3.6	1.5	320
JPK0406-221K	220	K	65	796KHZ	2.8	1.8	300
JPK0406-271K	270	K	50	796KHZ	2.4	1.9	275
JPK0406-331K	330	K	50	796KHZ	2.2	2.2	250
JPK0406-391K	390	K	50	796KHZ	2	2.7	220
JPK0406-471K	470	K	50	796KHZ	1.7	3.6	200
JPK0406-561K	560	K	50	796KHZ	1.5	4.2	190
JPK0406-681K	680	K	50	796KHZ	1.3	4.6	170
JPK0406-821K	820	K	50	796KHZ	1.1	5.7	155
JPK0406-122K	1200	K	90	252KHZ	0.9	8.2	140
JPK0406-152K	1500	K	80	252KHZ	0.8	13	120
JPK0406-182K	1800	K	80	252KHZ	0.8	15	110
JPK0406-222K	2200	K	80	252KHZ	0.8	17	100
JPK0406-272K	2700	K	80	252KHZ	0.8	19	90
JPK0406-332K	3300	K	70	252KHZ	0.7	26	83
JPK0406-392K	3900	K	70	252KHZ	0.6	30	76
JPK0406-472K	4700	K	65	252KHZ		45	70
JPK0406-562K	5600	K	65	252KHZ		48	62
JPK0406-682K	6800	K	65	252KHZ		56	56
JPK0406-822K	8200	K	65	252KHZ		62	52
JPK0406-103K	10000	K	45	79.6KHZ		72	47
JPK0406-153K	15000	K	45	79.6KHZ		120	35
JPK0406-223K	22000	K	45	79.6KHZ		160	24
JPK0406-253K	25000	K	45	79.6KHZ		180	20

### JPK0608 Series

Part No	Inductance		Q		SREF	DCR	Rated Current
	L(μH)'@0A	Tole	Min	Test Freq	(MHZ)Min	(Ω)Max	(A)Max
JPK0608-3R3M	3.3	M	20	7.96MHZ	40	0.016	3500
JPK0608-4R7M	4.7	M	20	7.96MHZ	36	0.02	3000
JPK0608-6R8M	6.8	M	20	7.96MHZ	32	0.022	2500
JPK0608-100M	10	M	30	2.52MHZ	23	0.039	2000
JPK0608-150M	15	M	30	2.52MHZ	19	0.045	1700
JPK0608-220M	22	M	30	2.52MHZ	16	0.062	1400
JPK0608-330M	33	M	30	2.52MHZ	11	0.1	1100
JPK0608-470M	47	M	30	2.52MHZ	9.5	0.15	950
JPK0608-680M	68	M	30	2.52MHZ	9	0.22	800
JPK0608-101K	100	K	20	796KHZ	6.5	0.35	650
JPK0608-151K	150	K	20	796KHZ	5.5	0.43	540
JPK0608-221K	220	K	20	796KHZ	4.8	0.9	440
JPK0608-331K	330	K	20	796KHZ	3.7	1.5	350
JPK0608-471K	470	K	20	796KHZ	2.8	1.8	300
JPK0608-681K	680	K	20	796KHZ	2.5	2.5	250
JPK0608-102K	1000	K	100	252KHZ	2.1	3.2	200
JPK0608-122K	1200	K	70	252KHZ		3.5	180
JPK0608-182K	1800	K	70	252KHZ		5	155
JPK0608-222K	2200	K	70	252KHZ		6.8	140
JPK0608-272K	2700	K	70	252KHZ		7.2	125
JPK0608-332K	3300	K	70	252KHZ		10.5	115
JPK0608-392K	3900	K	70	252KHZ		11.7	105
JPK0608-472K	4700	K	70	252KHZ		13.6	95
JPK0608-562K	5600	K	70	252KHZ		16.6	85
JPK0608-682K	6800	K	70	252KHZ		19.6	80
JPK0608-822K	8200	K	70	252KHZ		25.2	70
JPK0608-103K	10000	K	70	79.6KHZ		29.5	65
JPK0608-123K	12000	K	50	79.6KHZ		33.8	60
JPK0608-153K	15000	K	50	79.6KHZ		45.4	55
JPK0608-183K	18000	K	50	79.6KHZ		50.4	50
JPK0608-223K	22000	K	50	79.6KHZ		80	45
JPK0608-303K	30000	K	50	79.6KHZ		91.5	40
JPK0608-333K	33000	K	50	79.6KHZ		98.5	35



### JPK0608 Series

Part No	Inductance		Q		SREF	DCR	Rated Current
	L(μH)'@0A	Tole	Min	Test Freq	(MHZ)Min	(Ω)Max	(A)Max
JPK0608-393K	39000	K	50	79.6KHZ		140	32
JPK0608-473K	47000	K	50	79.6KHZ		160	30
JPK0608-503K	50000	K	50	79.6KHZ		170	29
JPK0608-563K	56000	K	50	79.6KHZ		250	28
JPK0608-683K	68000	K	50	79.6KHZ		282	25
JPK0608-823K	82000	K	50	79.6KHZ		312	23
JPK0608-104K	100000	K	30	25.2KHZ		380	20
JPK0608-124K	120000	K	30	25.2KHZ		430	18
JPK0608-154K	150000	K	30	25.2KHZ		520	16

### JPK0707 Series

Part No	Inductance		Q		SREF	DCR	Rated Current	Temperature Rise Current
	L(μH)'@0A	Tole	Min	Test req	(MHZ)Min	(Ω)Max	(A)Max	(A)Max
JPK0707-1R0M	1	M	10	7.96MHz	70	0.006	6600	5000
JPK0707-1R5M	1.5	M	10	7.96MHz	56	0.008	5400	4300
JPK0707-2R2M	2.2	M	10	7.96MHz	45	0.011	4000	3700
JPK0707-3R3M	3.3	M	10	7.96MHz	35	0.018	3600	2900
JPK0707-4R7M	4.7	M	10	7.96MHz	29	0.022	3100	2600
JPK0707-6R8M	6.8	M	10	7.96MHz	24	0.028	2500	2300
JPK0707-100M	10	M	20	2.52MHz	19	0.043	2100	1900
JPK0707-150M	15	M	20	2.52MHz	15	0.056	1700	1600
JPK0707-220M	22	M	20	2.52MHz	12	0.086	1400	1300
JPK0707-330M	33	M	20	2.52MHz	9.4	0.14	1100	1000
JPK0707-470M	47	M	20	2.52MHz	7.6	0.17	960	940
JPK0707-680M	68	M	20	2.52MHz	6.2	0.28	790	730
JPK0707-101K	100	K	20	7.96MHz	5	0.33	600	670
JPK0707-151K	150	K	20	7.96MHz	4	0.56	530	520
JPK0707-221K	220	K	20	7.96MHz	3.2	0.72	440	420
JPK0707-331K	330	K	20	7.96MHz	2.5	1.1	360	330
JPK0707-471K	470	K	20	7.96MHz	2	1.7	300	270
JPK0707-681K	680	K	20	7.96MHz	1.7	2.3	210	260
JPK0707-102K	1000	K	70	2.52MHz	1.3	4.3	200	190
JPK0707-152K	1500	K	50	2.52MHz	1.3	5	170	160

### JPK0807 Series

Part No	Inductance		Q		SREF	DCR	Rated Current	Temperature Rise Current
	L(μH)'@0A	Tole	Min	Test Freq	(MHZ)Min	(Ω)Max	(A)Max	(A)Max
JPK0807-2R2M	2.2	M	10	7.96MHz	60	0.011	5500	4000
JPK0807-3R3M	3.3	M	10	7.96MHz	38	0.013	3800	3400
JPK0807-4R7M	4.7	M	10	7.96MHz	30	0.017	3700	3000
JPK0807-6R8M	6.8	M	10	7.96MHz	24	0.023	2800	2600
JPK0807-100M	10	M	20	2.52MHz	19	0.031	2500	2200
JPK0807-150M	15	M	20	2.52MHz	15	0.042	2000	1900
JPK0807-220M	22	M	20	2.52MHz	12	0.07	1600	1500
JPK0807-330M	33	M	20	2.52MHz	10	0.092	1300	1200
JPK0807-470M	47	M	20	2.52MHz	8.2	0.13	1100	1000
JPK0807-680M	68	M	20	2.52MHz	6.6	0.16	970	910
JPK0807-101K	100	K	15	796KHz	5.4	0.23	810	750
JPK0807-151K	150	K	15	796KHz	4.3	0.4	610	610
JPK0807-221K	220	K	15	796KHz	3.5	0.53	530	500
JPK0807-331K	330	K	15	796KHz	2.8	0.78	440	410
JPK0807-471K	470	K	10	796KHz	2.3	1	390	330
JPK0807-681K	680	K	10	796KHz	1.9	1.5	320	280
JPK0807-102K	1000	K	20	252KHz	1.5	2.2	260	230
JPK0807-152K	1500	K	30	252KHz	1.2	3.5	210	180

### JPK0810 Series

Part No	Inductance		Q		SREF	DCR	Rated Current
	L(μH)'@0A	Tole	Min	Test Freq	(MHZ)Min	(Ω)Max	(A)Max
JPK0810-3R3M	3.3	M	30	7.96MHz	65	0.012	5000
JPK0810-3R9M	3.9	M	30	7.96MHz	55	0.014	4600
JPK0810-4R7M	4.7	M	30	7.96MHz	45	0.016	4300
JPK0810-5R6M	5.6	M	30	7.96MHz	38	0.02	3900
JPK0810-6R8M	6.8	M	30	7.96MHz	27	0.022	3700
JPK0810-8R2M	8.2	M	30	7.96MHz	21	0.024	3500
JPK0810-100M	10	M	50	2.52MHz	17	0.025	3.2
JPK0810-120M	12	M	50	2.52MHz	15	0.027	3
JPK0810-150M	15	M	50	2.52MHz	13	0.033	2.8

### JPK0810 Series

Part No	Inductance		Q		SREF	DCR	Rated Current
	L(μH)'@0A	Tole	Min	Test Freq	(MHZ)Min	(Ω)Max	(A)Max
JPK0810-180M	18	M	50	2.52MHz	12	0.039	2.6
JPK0810-220M	22	M	50	2.52MHz	11	0.047	2.4
JPK0810-270M	27	M	50	2.52MHz	10	0.052	2.1
JPK0810-330M	33	M	50	2.52MHz	8.5	0.075	1900
JPK0810-390M	39	M	40	2.52MHz	7.7	0.082	1700
JPK0810-470M	47	M	40	2.52MHz	6.7	0.1	1500
JPK0810-560M	56	M	40	2.52MHz	6.4	0.15	1300
JPK0810-680M	68	M	30	2.52MHz	5.8	0.18	1200
JPK0810-820M	82	M	30	2.52MHz	5.2	0.2	1100
JPK0810-101K	100	K	30	796KHz	4.4	0.2	900
JPK0810-121K	120	K	30	796KHz	4.2	0.22	800
JPK0810-151K	150	K	30	796KHz	3.7	0.24	720
JPK0810-181K	180	K	30	796KHz	3.5	0.28	650
JPK0810-221K	220	K	20	796KHz	3.3	0.35	600
JPK0810-271K	270	K	20	796KHz	2.9	0.4	550
JPK0810-331K	330	K	20	796KHz	2.6	0.47	500
JPK0810-391K	390	K	20	796KHz	2.4	0.68	460
JPK0810-471K	470	K	20	796KHz	2.2	0.8	420
JPK0810-561K	560	K	20	796KHz	2	1	380
JPK0810-681K	680	K	20	796KHz	1.8	1.2	350
JPK0810-821K	820	K	20	796KHz	1.7	1.5	310
JPK0810-102K	1000	K	40	252KHz	1.5	1.8	280
JPK0810-122K	1200	K	40	252KHz	1.4	2	250
JPK0810-152K	1500	K	40	252KHz	1.3	2.4	230
JPK0810-182K	1800	K	40	252KHz	1.1	2.8	210
JPK0810-222K	2200	K	40	252KHz	1	3.3	190
JPK0810-272K	2700	K	40	252KHz	0.88	5	170
JPK0810-392K	3900	K	40	252KHz	0.72	6.2	140
JPK0810-472K	4700	K	40	252KHz	0.65	7	130
JPK0810-562K	5600	K	40	252KHz	0.58	9.1	120
JPK0810-682K	6800	K	40	252KHz	0.55	10	110
JPK0810-822K	8200	K	20	252KHz	0.5	15	100
JPK0810-103K	10000	K	20	79.6KHz	0.42	24	90
JPK0810-473K	47000	K	60	79.6KHz	0.2	80	40
JPK0810-104K	100000	K	20	79.6KHz	0.14	180	28

### JPK0912 Series

Part No	Inductance		DCR	Rated Current
	L( $\mu$ H)@0A	Tole	( $\Omega$ )Max	(A)Max
JPK0912-3R3M	3.3	M	0.017	4.8
JPK0912-4R7M	4.7	M	0.02	4.5
JPK0912-6R8M	6.8	M	0.025	4.2
JPK0912-100M	10	M	0.04	4
JPK0912-120M	12	M	0.045	3.8
JPK0912-150M	15	M	0.05	3.5
JPK0912-180M	18	M	0.06	3.2
JPK0912-220M	22	M	0.07	3
JPK0912-270K	27	M	0.1	2.8
JPK0912-330K	33	M	0.12	2.5
JPK0912-390K	39	M	0.12	2
JPK0912-470K	47	M	0.13	1.9
JPK0912-560K	56	M	0.14	1.8
JPK0912-680K	68	M	0.15	1.7
JPK0912-820K	82	K	0.16	1.6
JPK0912-101K	100	K	0.25	1.5
JPK0912-121K	120	K	0.28	1.2
JPK0912-151K	150	K	0.3	1
JPK0912-181K	180	K	0.45	0.7
JPK0912-221K	220	K	0.5	0.6
JPK0912-271K	270	K	0.65	0.5
JPK0912-331K	330	K	0.85	0.45
JPK0912-391K	390	K	0.95	0.4
JPK0912-471K	470	K	1.1	0.35
JPK0912-561K	560	K	1.2	0.3
JPK0912-681K	680	K	1.3	0.25
JPK0912-821K	820	K	1.5	0.2
JPK0912-102K	1000	K	2	0.2
JPK0912-152K	1500	K	2.3	0.18
JPK0912-222K	2200	K	4.5	0.15
JPK0912-332K	3300	K	5.5	0.13
JPK0912-472K	4700	K	7.2	0.12
JPK0912-682K	6800	K	12	0.1
JPK0912-103K	10000	K	16	0.09
JPK0912-153K	15000	K	21	0.08
JPK0912-223K	22000	K	33	0.07
JPK0912-333K	33000	K	45	0.04

### JPK1010 Series

Part No	Inductance		Q		SREF	DCR	Saturation Current	Temperature Rise Current
	L( $\mu$ H)'@0 A	Tolerance	Min	Test req	(MHZ)Min	( $\Omega$ )Max	(A)Max	(A)Max
JPK1010-3R3	3.3	M	10	7.96MHz	36	0.01	8800	5900
JPK1010-4R7	4.7	M	10	7.96MHz	28	0.015	7200	4800
JPK1010-6R8	6.8	M	10	7.96MHz	18	0.016	6700	4600
JPK1010-100M	10	M	20	2.52MHz	16	0.025	5000	3700
JPK1010-150M	15	M	20	2.52MHz	12	0.029	4200	3400
JPK1010-200M	22	M	20	2.52MHz	9.5	0.04	3400	2900
JPK1010-330M	33	M	20	2.52MHz	7	0.062	2800	3300
JPK1010-470M	47	M	20	2.52MHz	5.8	0.075	2300	2100
JPK1010-680M	68	M	20	2.52MHz	4.7	0.13	1900	1600
JPK1010-101K	100	K	20	796KHz	3.8	0.16	1600	1400
JPK1010-151K	150	K	20	796KHz	3.1	0.26	1300	1100
JPK1010-221K	220	K	20	796KHz	2.5	0.33	1100	1000
JPK1010-331K	330	K	20	796KHz	2	0.52	880	820
JPK1010-471K	470	K	10	796KHz	1.6	0.66	750	720
JPK1010-681K	680	K	10	796KHz	1.3	1.1	610	560
JPK1010-102K	1000	K	20	252KHz	1.1	1.4	510	500
JPK1010-152K	1500	K	30	252KHz	0.82	2.4	430	380
JPK1010-222K	2200	K	20	252KHz	0.76	3.2	350	330
JPK1010-332K	3300	K	30	252KHz	0.64	4.9	280	260
JPK1010-472K	4700	K	30	252KHz	0.54	7.6	240	210
JPK1010-682K	6800	K	30	252KHz	0.45	9.8	200	180
JPK1010-103K	10000	K	30	79.6KHz	0.38	18	170	140
JPK1010-153K	15000	K	50	79.6KHz	0.29	24	130	120

### JPK1012 Series

Part No	Inductance		Q		SREF	DCR	Saturation Current	Temperature Rise Current
	L( $\mu$ H)'@0A	Tolerance	Min	Test req	(MHZ)Min	( $\Omega$ )Max	(A)Max	(A)Max
JPK1012-103K	10000	K	100	79.6KHz	0.35	12	180	170
JPK1012-123K	12000	K	100	79.6KHz	0.31	13	160	160
JPK1012-153K	15000	K	100	79.6KHz	0.28	18	140	140
JPK1012-183K	18000	K	80	79.6KHz	0.26	25	130	120
JPK1012-223K	22000	K	80	79.6KHz	0.22	30	120	110
JPK1012-273K	27000	K	80	79.6KHz	0.2	35	110	100
JPK1012-333K	33000	K	60	79.6KHz	0.19	40	100	90
JPK1012-393K	39000	K	60	79.6KHz	0.17	50	90	80
JPK1012-473K	47000	K	60	79.6KHz	0.15	50	80	75
JPK1012-563K	56000	K	40	79.6KHz	0.13	65	75	70
JPK1012-683K	68000	K	40	79.6KHz	0.12	70	70	65
JPK1012-823K	82000	K	30	79.6KHz	0.1	100	60	55
JPK1012-104K	100000	K	30	79.6KHz	0.1	135	55	45

### JPK1018 Series

Part No	Inductance		DCR	Saturation Current	Temperature Rise Current
	L( $\mu$ H)'@0A	Tole	( $\Omega$ )Max	(A)Max	(A)Max
JPK1018-4R7K	4.7	K	0.008	10000	6000
JPK1018-6R8K	6.8	K	0.011	8000	5000
JPK1018-100K	10	K	0.017	7000	4500
JPK1018-150K	15	K	0.022	5500	4000
JPK1018-220K	22	K	0.026	4500	3700
JPK1018-330K	33	K	0.032	3800	3300
JPK1018-470K	47	K	0.035	3200	3000
JPK1018-680K	68	K	0.047	2600	2600
JPK1018-101K	100	K	0.09	2200	2000
JPK1018-151K	150	K	0.129	1800	1600
JPK1018-221K	220	K	0.162	1500	1500
JPK1018-331K	330	K	0.212	1200	1200
JPK1018-471K	470	K	0.38	1000	1000
JPK1018-681K	680	K	0.548	840	840
JPK1018-102K	1000	K	0.844	660	660
JPK1018-152K	1500	K	1.18	550	550

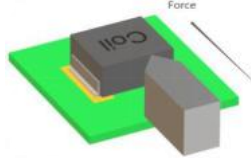
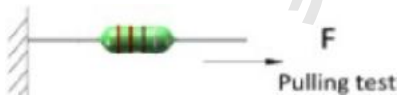
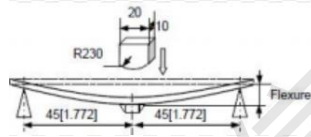
JPK1018-222K	2200	K	2	460	440
JPK1018-332K	3300	K	2.53	380	380
JPK1018-472K	4700	K	3.19	320	320
JPK1018-682K	6800	K	5.69	260	250
JPK1018-103K	10000	K	7.3	220	220
JPK1018-153K	15000	K	10.5	180	180
JPK1018-223K	22000	K	21.8	140	130
JPK1018-333K	33000	K	25.7	120	120
JPK1018-473K	47000	K	36.1	100	100
JPK1018-683K	68000	K	57.3	80	80
JPK1018-104K	100000	K	89.7	60	60

### JPK1213 Series

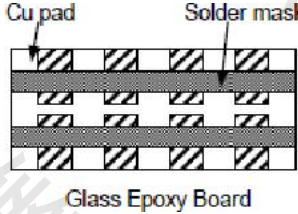
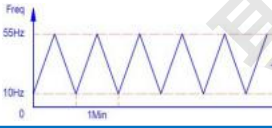
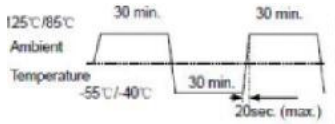
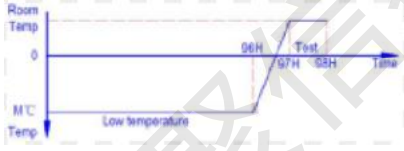
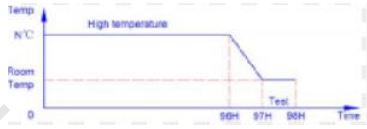
Part No	Inductance		DCR	Saturation Current	Temperature Rise Current
	L(μH)@0A	Tole	(Ω)Max	(A)Max	(A)Max
JPK1213-100M	10	M	0.023	8000	5100
JPK1213-150M	15	M	0.028	6500	4500
JPK1213-220M	22	M	0.035	5500	4200
JPK1213-330M	33	M	0.043	4500	3700
JPK1213-470M	47	M	0.052	3600	3400
JPK1213-680M	68	M	0.068	3100	3000
JPK1213-101K	100	K	0.097	2600	2500
JPK1213-151K	150	K	0.14	2100	2100
JPK1213-221K	220	K	0.2	1700	1700
JPK1213-331K	330	K	0.3	1400	1400
JPK1213-471K	470	K	0.43	1100	1100
JPK1213-681K	680	K	0.61	950	990
JPK1213-102K	1000	K	1	780	780
JPK1213-152K	1500	K	1.3	640	680
JPK1213-222K	2200	K	2	530	550
JPK1213-332K	3300	K	3.1	430	440
JPK1213-472K	4700	K	4.4	360	370
JPK1213-682K	6800	K	6.5	300	300
JPK1213-103K	10000	K	10	240	240

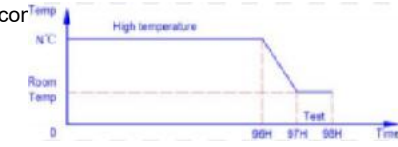
- Saturation Current: DC current at which inductance drops 10% from its value without current.
- Temperature Rise Current: the actual value of DC current when the temperature rise is  $\Delta T = 40^{\circ}\text{C}$  ( $T_a = 25^{\circ}\text{C}$ ).
- Rated DC Current: The less value which is  $I_{sat}$  or  $I_{rms}$ .
- 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.

### 可靠性测试 Reliability testing

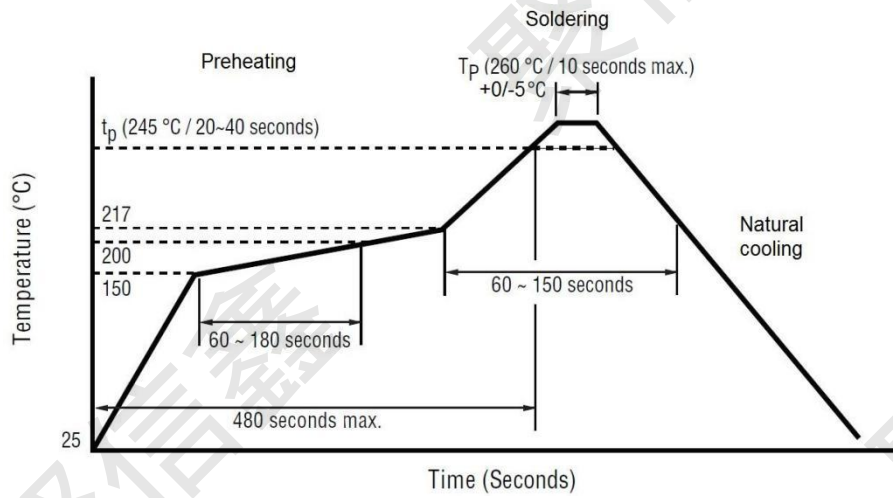
Items	Requirements	Test Methods and Remarks
Terminal Strength Reference documents: GB/T 2423.60-2008 端子强度(SMT)	<p>1. Pulling test: Define: A: sectional area of terminal <math>A \leq 8\text{mm}^2</math> force <math>\geq 5\text{N}</math> time: 30sec <math>8\text{mm}^2 &lt; A \leq 20\text{mm}^2</math> force <math>\geq 10\text{N}</math> time: 10sec <math>20\text{mm}^2 &lt; A</math> force <math>\geq 20\text{N}</math> time: 10sec</p> <p>2. Solder paste thickness: 0.12mm</p> <p>3. Meet the above requirements without any loose terminal</p>	<p>Solder the inductor to the testing jig using leadfree solder. Then apply a force in the direction shown</p> <p>Keep time: <math>10 \pm 1\text{s}</math> Speed: 1.0mm/s.</p> 
Terminal Strength Reference documents: GB/T 2423.60-2008 端子强度(DIP)	<p>1. Terminal diameter(d) mm <math>0.35 &lt; d \leq 0.50</math> Applied force: 5N Duration: 10sec</p> <p>2. Terminal diameter(d) mm <math>0.50 &lt; d \leq 0.80</math> Applied force: 10N Duration: 10sec</p> <p>3. Terminal diameter(d) mm <math>0.80 &lt; d \leq 1.25</math> Applied force: 20N Duration: 10sec</p> <p>4. Terminal diameter(d) mm <math>D &gt; 1.25</math> Applied force: 40N Duration: 10sec</p> <p>5. Meet the above requirements without any loose terminal.</p>	<p>Pull Force: the force shall be applied gradually to the terminal and then maintained for 10 seconds.</p> 
Resistance to Flexure JIS C 5321:1997 抗弯曲性试验	<p>1. No visible mechanical damage.</p>	<p>1. Solder the inductor to the test jig (glass epoxy board)</p> <p>2. shown in Using a leadfree solder. Then apply a force in the direction shown</p> <p>3. Flexure: 2mm.</p> <p>4. Pressurizing Speed: 0.5mm/sec.</p> <p>5. Keep time: 30 sec.</p> 
Dropping Reference documents: GB/T 2423.7-2018 落下试验	<p>1. No case deformation or change in appearance.</p> <p>2. No short and no open.</p>	<p>1. Drop the packaged products from 1m high in 1 angle, 3 ridges and 6 surfaces, twice in each direction.</p>
Solderability Reference documents: GB/T 2423.28-2005 可焊性试验	<p>1. No visible mechanical damage.</p> <p>2. Wetting shall exceed 75% coverage for</p> <p>3. Terminals must have 95% minimum solder coverage</p>	<p>1. Solder temperature: <math>240 \pm 2^\circ\text{C}</math></p> <p>2. Duration: 3 sec.</p> <p>3. Solder: Sn/3.0Ag/0.5Cu.</p> <p>4. Flux: 25% Resin and 75% ethanol in weight</p>



Items	Requirements	Test Methods and Remarks
<p>Vibration Reference documents: GB/T 2423.10-2019 振动试验</p>	<p>1.No visible mechanical damage. 2. Inductance change: Within <math>\pm 10\%</math>. 3.Q factor change: Within <math>\pm 20\%</math>.</p> 	<p>1.Solder the inductor to the testing jig (glass epoxy boardshown in ) using leadfree solder. 2.The inductor shall be subjected to a simple harmonic motion having total amplitude of 1.5mm, the frequency being varieduniformly between the approximate limits of 10 and 55 Hz. 3.The frequency range from 10 to 55 Hz and return to 10 Hz shallbe traversed in approximately 1 minute. This motion shall be applied for a period of 2 hours in each 3mutually perpendicular directions(total of 6 hours).</p> 
<p>Thermal Shock Reference documents: GB/T 2423.22-2012 Method Na 冷热冲击试验</p>	<p>1.No visible mechanical damage. 2. Inductance change: Within <math>\pm 10\%</math>.(Mn-Zn: Within <math>\leq 30\%</math> ) 3.Q factor change: Within <math>\pm 20\%</math>.</p>	<p>1.Start at ( 85~125℃ ) for T time, rush to (-55~40℃ ) for T time as one cycle, go through100 cycles. 2.Transforming interval: Max. 20 sec. 3.Tested cycle: 100 cycles. 4.The chip shall be stabilized at normal condition for 1~2 hours</p> 
<p>Low temperature Storage Reference documents: GB/T 2423.1-2008 Method Ab 低温储存试验</p>	<p>1.No visible mechanical damage. 2. Inductance change: Within <math>\pm 10\%</math>.(Mn-Zn: Within <math>\leq 30\%</math> ) 3.Q factor change: Within <math>\pm 20\%</math>.</p>	<p>1.Temperature:M(-55~-40<math>\pm 2^\circ\text{C}</math>) 2.Duration: 96<math>\pm 2</math> hours 3.The chip shall be stabilized at normal condition for 1~2 hoursbefore measuring.</p> 
<p>High temperature Storage Reference documents: GB/T 2423.2-2008 Method Bb 高温储存试验</p>	<p>1.No visible mechanical damage. 2. Inductance change: Within <math>\pm 10\%</math>.(Mn-Zn: Within <math>\leq 30\%</math> ) 3.Q factor change: Within <math>\pm 20\%</math>.</p>	<p>1.Temperature:N(125~85<math>\pm 2^\circ\text{C}</math>) 2.Duration: 96<math>\pm 2</math> hours 3.The chip shall be stabilized at normal condition for 1~2 hoursbefore measuring.</p> 

Items	Requirements	Test Methods and Remarks
Damp Heat (Steady States) Reference documents: GB/T 2423.3-2016 恒定湿热试验	<ol style="list-style-type: none"> <li>1.No visible mechanical damage.</li> <li>2. Inductance change: Within <math>\pm 10\%</math>. (Mn-Zn: Within <math>\leq 30\%</math> )</li> <li>3.Q factor change: Within <math>\pm 20\%</math>.</li> </ol>	<ol style="list-style-type: none"> <li>1.Temperature: <math>60\pm 2^{\circ}\text{C}</math></li> <li>2.Humidity: 90% to 95% RH.</li> <li>3.Duration: <math>96\pm 2</math> hours.</li> <li>4.The chip shall be stabilized at normal</li> </ol> 
Heat endurance of Reflow soldering Reference documents: GJB 360B-2009 回流焊耐热性试验	<ol style="list-style-type: none"> <li>1.No significant defects in appearance.</li> <li>2.<math>\Delta L/L \leq 10\%</math> (Mn-Zn: <math>\Delta L/L \leq 30\%</math> )</li> <li>3.<math>\Delta Q/Q \leq 30\%</math> (SMD series only)</li> <li>4.<math>\Delta DCR/DCR \leq 10\%</math></li> </ol>	<ol style="list-style-type: none"> <li>1.Refer to the above reflow curve and go through the reflow for twice.</li> <li>2.The peak temperature : <math>260\pm 0/-5^{\circ}\text{C}</math></li> </ol>
Resistance to solvent test Reference documents: IEC 68-2-45:1993 耐溶剂性试验	No case deformation or change in appearance or obliteration of marking	To dip parts into IPA solvent for $5\pm 0.5$ Min, then drying them at room temp for 5Min, at last ,to brushing making 10 times.
Overload test Reference documents: JIS C5311-6.13 过负荷试验	<ol style="list-style-type: none"> <li>1.During the test no smoke, no peculiar, smell, no fire</li> <li>2.The characteristic is normal after test</li> </ol>	Apply twice as rated current for 5 minutes.
voltage resistance test Reference documents: MIL-STD-202G Method 301 绝缘耐压测试	<ol style="list-style-type: none"> <li>1.During the test no breakdown</li> <li>2.The characteristic is normal after test</li> </ol>	<ol style="list-style-type: none"> <li>1. For parts with two coils</li> <li>2. DC1000V, Current: 1mA, Time: 1Min.</li> <li>3. Refer to catalogue of specific products</li> </ol>

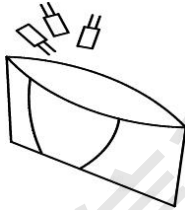
**推荐回流焊温度曲线 Recommended reflow soldering curve:**



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.

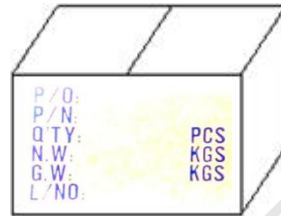
## 产品包装 Packaging

### In bag pakeage



PE 袋

### Packaging

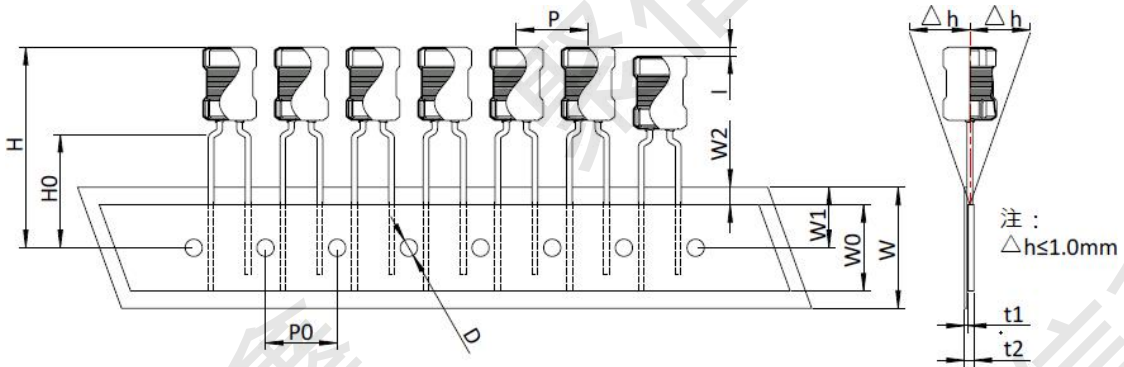


### Outside Carton

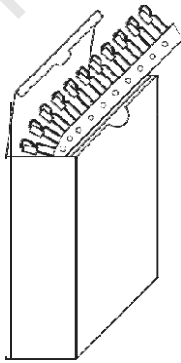
不足整箱用内盒或填充物装满

Part No.	PE 胶袋每袋数量(PCS)	外箱 (PCS)
JPK0406	1000	20,000
JPK0608	1000	20,000
JPK0707	500	10,000
JPK0807	500	10,000
JPK0810	500	10,000
JPK0912	200	4000
JPK1010	200	4000
JPK1012	200	4000
JPK1018	200	4000
JPK1213	200	4000

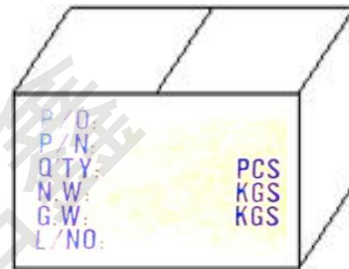
**Tape Specifications(mm)**



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

## 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 JXX 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。If JXX product will be applied in area like automotive product, medical equipment, military and aerospace except generalelectronic device, please keep JXX sales informed in advance. JXX shall not be held liable for any malfunction or breakdown caused by using product in the condition which is inconsistent with that recommended by JXX.