

SUNLEI

FOR APPROVAL

樣品承認書



客戶名稱
CUSTOMER

產品名稱
PRODUCT

SMD power inductors

產品型號
PART NO.

JHI-SERIES-PFM

客戶型號
PART NO.

承認印 APPROVED BY

發行單位 ISSUE BY

昕磊科技

承認書發行章

工程部的

昕磊科技股份有限公司

日期
DATE

2024/08/29

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RECORD OF REVISION

CUSTOMER:		PART NO.:	JHI-SERIES-PFM
DESCRIPTION:	SMD power inductors.	CUSTOMER P/N:	

REV	DESCRIPTION ITEMS BE CHANGED OVER, (FROM / T0)	DATE	MADE BY	CHECKED
A1	INITIAL	2024/08/29	Yan	Aiji li

 昕磊科技股份有限公司 SUNLEI TECHNOLOGY CORP. TEL:(02)8228-7672傳真:(02)8228-7673	APPROVED	CHECKED	DRAWN
	Andy	Aiji	Yan
	2024/8/29	2024/8/29	2024/8/29

1. 适用范围 Scope.

本规格书适用于 JHI-PFM 系列贴片功率电感器。

This specification applies to the PFM series of SMD power inductors.

2. 型号表示办法 How To Order.

JHI 141208 - 1R0 □ PFM

① ② ③ ④ ⑤

①产品代号, Product Type.

②尺寸代码, Dimension Code, 长度、宽度、厚度, Length /Width /Thickness.

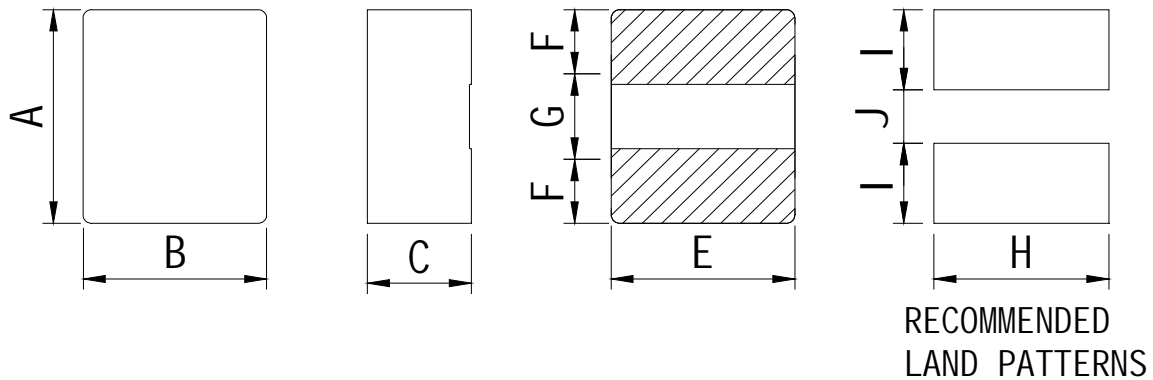
③电感量标称值, Inductance, 1R0→1.0μH, 100→10μH, 101→100μH.

④电感量公差代码, Inductance Tolerance Code, N ±30%, M ±20%.

⑤内部代码, Internal Code.

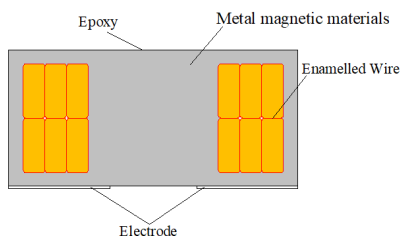
3. 尺寸与结构 External Dimensions and Structural Diagram. 单位 Unit: mm

3.1. 尺寸 External Dimensions



Size	A	B	C MAX	E Typical	F Typical	G Typical	H Typical	I Typical	J Typical
141208	1.4±0.2	1.2±0.2	0.80	1.20	0.50	0.45	1.30	0.60	0.40
160808	1.6±0.2	0.8±0.2	0.80	0.80	0.55	0.50	0.90	0.65	0.40
201208	2.0±0.2	1.2±0.2	0.80	1.20	0.65	0.60	1.40	0.80	0.50
201610	2.0±0.2	1.6±0.2	1.00	1.60	0.65	0.60	1.80	0.80	0.50
252010	2.5±0.2	2.0±0.2	1.00	2.00	0.90	0.70	2.10	1.00	0.60
252012	2.5±0.2	2.0±0.2	1.20	2.00	0.90	0.70	2.10	1.00	0.60
322512	3.2±0.2	2.50±0.2	1.20	2.50	1.15	0.90	2.60	1.30	0.90

3.2. 结构图 Structural Drawing:



No.	部位 Component	材料 Material
①	本体 Body	金属磁性材料 Metal magnetic materials
②	线圈 Winding	漆包线 Enamelled wire
③	涂层 Shield	环氧树脂 Epoxy
④	电极 Electrode	底层—铜层 Base plating—Cu 镀层—镍层 Base plating—Ni 镀层—锡层 Base plating—Sn

4. 测试条件 Testing Conditions.

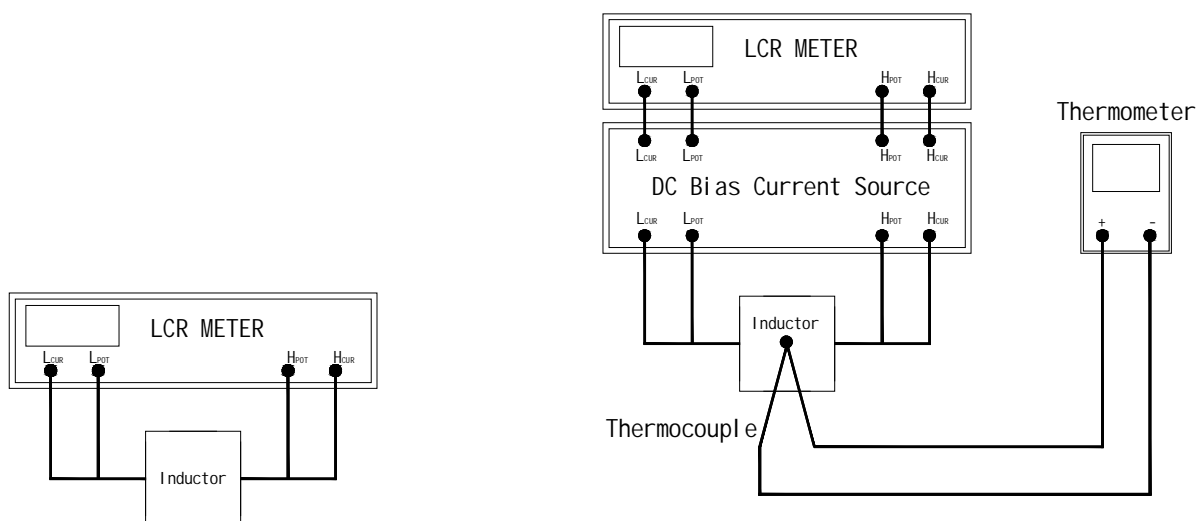
4.1. 除非另有规定，否则在以下条件下测试。Unless otherwise specified

温度：常温 Temperature : Ordinary Temperature	20±15 °C
湿度：常湿 Humidity: Ordinary Humidity	65±20 % RH

当对测量结果有疑问时 In case of doubt

温度 Temperature	20±2 °C
湿度 Humidity	65±5 % RH
大气压 Atmospheric Pressure	86 to 106 kPa

4.2. 测试示意图 Test Schematic Diagram.



Ls & RDC test schematic diagram

Isat & Irms test schematic diagram

5. 工作温度范围 Operating Temperature Range

-40°C ~ +125°C, 包括自身发热。Including self-heating

6. 电气性能 Performance Specification

JHI141208 SERIE S

客户料号 Customers Part No.	昕磊料号 SUNLEI Part No.	Ls (μ H)		RDC (m Ω)		Isat (A)		Irms (A)	
				Max.	Typ.	Max.	Typ.	Max.	Typ.
	JHI141208-R24M-PFM	0.24	$\pm 20\%$	27	22	5.70	6.00	3.70	4.10
	JHI141208-R33M-PFM	0.33	$\pm 20\%$	28	23	5.00	5.30	3.50	4.00
	JHI141208-R47M-PFM	0.47	$\pm 20\%$	35	29	4.20	4.60	3.30	3.80

JHI160808 SERIE S

客户料号 Customers Part No.	昕磊料号 SUNLEI Part No.	Ls (μ H)		RDC (m Ω)		Isat (A)		Irms (A)	
				Max.	Typ.	Max.	Typ.	Max.	Typ.
	JHI160808-R47M-PFM	0.47	$\pm 20\%$	100	80	3.70	4.10	2.30	2.60
	JHI160808-1R0M-PFM	1.00	$\pm 20\%$	200	180	2.60	3.00	1.80	2.10
	JHI160808-2R2M-PFM	2.20	$\pm 20\%$	260	220	1.30	1.50	1.20	1.40

JHI201208 SERIE S

客户料号 Customers Part No.	昕磊料号 SUNLEI Part No.	Ls (μ H)		RDC (m Ω)		Isat (A)		Irms (A)	
				Max.	Typ.	Max.	Typ.	Max.	Typ.
	JHI201208-R24M-PFM	0.24	$\pm 20\%$	23	18	6.00	6.50	5.90	6.50
	JHI201208-R33M-PFM	0.33	$\pm 20\%$	45	33	4.80	5.20	4.00	4.30
	JHI201208-R47M-PFM	0.47	$\pm 20\%$	50	32	4.60	5.00	3.30	3.50
	JHI201208-R68M-PFM	0.68	$\pm 20\%$	60	50	3.70	4.20	3.30	3.70
	JHI201208-1R0M-PFM	1.00	$\pm 20\%$	70	55	3.50	4.00	2.40	3.30
	JHI201208-1R5M-PFM	1.50	$\pm 20\%$	135	118	2.50	3.00	1.90	2.20
	JHI201208-2R2M-PFM	2.20	$\pm 20\%$	185	160	2.30	2.60	1.80	2.20

JHI201610 SERIE S

客户料号 Customers Part No.	昕磊料号 SUNLEI Part No.	Ls (μ H)		RDC (m Ω)		Isat (A)		Irms (A)	
				Max.	Typ.	Max.	Typ.	Max.	Typ.
	JHI201610-R22M-PFM	0.22	$\pm 20\%$	18	11	7.50	8.20	6.30	6.90
	JHI201610-R24M-PFM	0.24	$\pm 20\%$	19	12	7.40	8.00	6.20	6.80
	JHI201610-R33M-PFM	0.33	$\pm 20\%$	22	17	6.50	7.00	5.30	5.70
	JHI201610-R47M-PFM	0.47	$\pm 20\%$	25	22	5.50	6.30	5.00	5.50
	JHI201610-R68M-PFM	0.68	$\pm 20\%$	32	25	4.70	5.20	4.30	4.60

客户料号 Customers Part No.	昕磊料号 SUNLEI Part No.	Ls (μ H)		RDC (m Ω)		Isat (A)		Irms (A)	
				Max.	Typ.	Max.	Typ.	Max.	Typ.
	JHI201610-1R0M-PFM	1.00	$\pm 20\%$	43	35	4.20	4.60	4.10	4.50
	JHI201610-1R5M-PFM	1.50	$\pm 20\%$	100	80	2.90	3.20	2.30	2.60
	JHI201610-2R2M-PFM	2.20	$\pm 20\%$	130	120	2.80	3.00	2.10	2.50
	JHI201610-3R3M-PFM	3.30	$\pm 20\%$	170	140	2.00	2.30	1.50	1.70
	JHI201610-4R7M-PFM	4.70	$\pm 20\%$	220	190	1.80	2.00	1.40	1.60
	JHI201610-100M-PFM	10.00	$\pm 20\%$	580	483	1.10	1.40	0.70	1.00

JHI252010 SERIE S

客户料号 Customers Part No.	昕磊料号 SUNLEI Part No.	Ls (μ H)		RDC (m Ω)		Isat (A)		Irms (A)	
				Max.	Typ.	Max.	Typ.	Max.	Typ.
	JHI252010-R24M-PFM	0.24	$\pm 20\%$	17.5	12.0	7.80	8.50	6.40	6.70
	JHI252010-R33M-PFM	0.33	$\pm 20\%$	19.0	13.0	7.20	7.60	6.20	6.50
	JHI252010-R47M-PFM	0.47	$\pm 20\%$	22.0	15.0	6.50	6.90	5.60	6.10
	JHI252010-R68M-PFM	0.68	$\pm 20\%$	27.0	23.0	5.50	5.90	5.00	5.60
	JHI252010-1R0M-PFM	1.00	$\pm 20\%$	30.0	25.0	4.80	5.30	4.10	4.50
	JHI252010-1R5M-PFM	1.50	$\pm 20\%$	55.0	45.0	3.90	4.30	3.00	3.40
	JHI252010-2R2M-PFM	2.20	$\pm 20\%$	70.0	62.0	3.00	3.30	2.10	2.40
	JHI252010-3R3M-PFM	3.30	$\pm 20\%$	100.0	86.0	2.50	2.80	2.10	2.50
	JHI252010-4R7M-PFM	4.70	$\pm 20\%$	180.0	160.0	2.00	2.60	1.60	2.00
	JHI252010-6R8M-PFM	6.80	$\pm 20\%$	320.0	270.0	1.90	2.40	1.40	1.60
	JHI252010-100M-PFM	10.00	$\pm 20\%$	560.0	500.0	1.40	1.55	0.95	1.05

JHI252012 SERIE S

客户料号 Customers Part No.	昕磊料号 SUNLEI Part No.	Ls (μ H)		RDC (m Ω)		Isat (A)		Irms (A)	
				Max.	Typ.	Max.	Typ.	Max.	Typ.
	JHI252012-R24M-PFM	0.24	$\pm 20\%$	15	10	8.80	9.30	7.50	8.00
	JHI252012-R33M-PFM	0.33	$\pm 20\%$	17	11	7.80	8.30	6.40	6.80
	JHI252012-R47M-PFM	0.47	$\pm 20\%$	19	13	7.00	7.50	6.00	6.50
	JHI252012-R68M-PFM	0.68	$\pm 20\%$	23	17	6.00	6.50	5.50	6.30
	JHI252012-1R0M-PFM	1.00	$\pm 20\%$	42	35	5.00	5.60	3.60	4.00
	JHI252012-1R5M-PFM	1.50	$\pm 20\%$	50	44	4.10	4.50	3.20	3.70
	JHI252012-2R2M-PFM	2.20	$\pm 20\%$	65	55	3.30	3.80	2.70	3.00
	JHI252012-3R3M-PFM	3.30	$\pm 20\%$	97	80	2.70	3.00	1.80	2.30

客户料号 Customers Part No.	昕磊料号 SUNLEI Part No.	Ls (μ H)		RDC (m Ω)		Isat (A)		Irms (A)	
				Max.	Typ.	Max.	Typ.	Max.	Typ.
	JHI252012-4R7M-PFM	4.70	\pm 20%	170	150	2.10	2.40	1.50	1.80
	JHI252012-6R8M-PFM	6.80	\pm 20%	270	245	1.70	2.00	1.40	1.60
	JHI252012-100M-PFM	10.00	\pm 20%	400	330	1.45	1.60	1.05	1.20

JHI322512 SERIE S

客户料号 Customers Part No.	昕磊料号 SUNLEI Part No.	Ls (μ H)		RDC (m Ω)		Isat (A)		Irms (A)	
				Max.	Typ.	Max.	Typ.	Max.	Typ.
	JHI322512-R24M-PFM	0.24	\pm 20%	12	7	10.50	11.00	8.50	9.00
	JHI322512-R33M-PFM	0.33	\pm 20%	14	9	9.50	10.00	8.10	8.40
	JHI322512-R47M-PFM	0.47	\pm 20%	19	14	8.20	8.60	7.20	7.50
	JHI322512-R68M-PFM	0.68	\pm 20%	23	18	7.70	8.10	6.80	7.30
	JHI322512-1R0M-PFM	1.00	\pm 20%	30	26	5.80	6.60	4.80	5.30
	JHI322512-1R5M-PFM	1.50	\pm 20%	44	37	4.70	5.10	4.30	4.70
	JHI322512-2R2M-PFM	2.20	\pm 20%	70	58	4.20	4.60	3.00	3.60
	JHI322512-3R3M-PFM	3.30	\pm 20%	95	75	3.20	3.70	2.50	2.90
	JHI322512-4R7M-PFM	4.70	\pm 20%	135	115	2.60	2.90	2.00	2.30
	JHI322512-6R8M-PFM	6.80	\pm 20%	210	177	2.40	2.80	1.90	2.10
	JHI322512-100M-PFM	10.00	\pm 20%	230	210	1.90	2.30	1.80	2.20

Isat 饱和电流: 指使电感量比初始值下降约 30% 的电流值, 加载电流的时间 1 秒以内。

Isat: The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

Irms 温升电流: 指使电感器表面温度上升 40°C 的电流值。

Irms: The DC current is inductor surface temperature to rise by 40°C.

额定电压: DC 20V Max.

Rated Voltage: DC 20V Max.

测试条件与仪器 Test Condition & Equipment:

符号 Symbols	项目 Item	测试条件 Test condition	测试仪器 Test equipment
Ls	电感量 Inductance	1MHz/1V	HIOKI IM3536 LCR METER or equivalent
RDC	直流电阻 Direct Current Resistance	Direct-Current	HIOKI RM3545 RESISTANCE MATER or equivalent
Isat	饱和电流 Saturation Current	1MHz/1V	Wayne Kerr 3260B & 3265B or equivalent
Irms	温升电流 Temperature Rise Current	/	Wayne Kerr 3260B & 3265B or equivalent

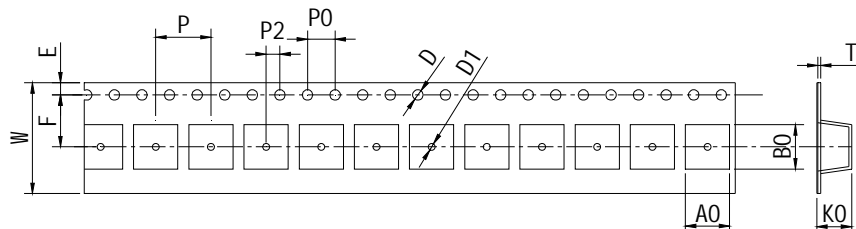
7. 可靠性 Reliability Data

序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks														
7.1	绝缘电阻 Insulation Resistance	$\geq 100M\Omega$	在电感器线圈和本体顶面中间施加 100 V 直流电压保持 60 s。 100 V DC applied between the inductor coil and the middle of the top surface of the body for 60 seconds.														
7.2	可焊性 Solderability	电极面 90% 以上覆盖新的焊料。 90% or more of electrode area shall be coated by new solder.	在(245±5) °C 熔融的焊锡 (96.5Sn/3.0Ag/0.5Cu) 中 浸(5±1) s。 Dip pads in flux and dip in solder pot (96.5Sn/3.0Ag/0.5Cu) at (245±5) °C for (5±1) seconds.														
7.3	耐焊接热 Resistance to Soldering Heat	外观无可见机械损伤； 电感量变化率：±10% 以内。 No visible mechanical damage. Inductance change: Within ±10%	回流焊峰值温度(260±5) °C 峰值时间(15±5) s, 过炉两 次, 在室温下放置 1 小时后测试。 Reflow soldering peak temperature (260 ± 5) °C time (15 ± 5) s, twice cycling, test after being kept at room temperature for 1 hour.														
7.4	端子强度 Adhesion of terminal electrode	元件的端子与本体结合无松动、无 脱落。 Strong bond between the pad and the core, without dropping	将电感器用(260±5) °C, (20±5) s 焊在带有 0.3 mm 厚锡膏的基板上, 然后用治具垂直电极面方向施加 力, (10±1) s。 Inductors shall be soldered to board under (260±5)°C for (20±5) s in the base with 0.3mm solder. And then apply a force perpendicular to the direction of the electrode surface using a metallurgical tool for (10 ± 1) seconds <table border="1" data-bbox="879 1476 1370 1778"> <thead> <tr> <th>Size</th> <th>Force(N)</th> </tr> </thead> <tbody> <tr> <td>141208</td> <td>5</td> </tr> <tr> <td>160808</td> <td>5</td> </tr> <tr> <td>201208</td> <td>8</td> </tr> <tr> <td>201610</td> <td>10</td> </tr> <tr> <td>252010</td> <td>10</td> </tr> <tr> <td>322512</td> <td>25</td> </tr> </tbody> </table>	Size	Force(N)	141208	5	160808	5	201208	8	201610	10	252010	10	322512	25
Size	Force(N)																
141208	5																
160808	5																
201208	8																
201610	10																
252010	10																
322512	25																
7.5	耐高温 High temperature	外观无可见机械损伤； 电感量变化率：±10% 以内。 No visible mechanical damage. Inductance change: Within ±10%	温度(+125 ± 2) °C, 时间(1000±24) h; Temperature is (+125±2)°C and keep (1000±24) hours.														

序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks
7.6	耐低温 Low temperature	外观无可见机械损伤; 电感量变化率: ±10%以内。 No visible mechanical damage. Inductance change: Within ±10%	温度(-40℃ ±2) °C, 时间(1000±24) h; Temperature is (-40±2)°C and keep (1000±24) hours.
7.7	温度变化 Thermal shock	外观无可见机械损伤; 电感量变化率: ±10%以内。 No visible mechanical damage. Inductance change: Within ±10%	(-40±3) °C,时间(30±3) min ↔ (125℃±2) °C/(30±3) min, 转换时间(2~3) min,循环1000次; 在室温下放置 2 小时后、48 小时内测试。 The test sample shall be placed at (-40±3)°C for(30±3) min and convert to (125±2)°C for (30±3) min, the conversion time is 2~3 minutes. The temperature cycle shall be repeated 1000 cycles. Placed at room temperature for 2 hours, within 48 hours of testing.
7.8	恒定湿热 Static Humidity	外观无可见机械损伤; 电感量变化率: ±10%以内。 No visible mechanical damage. Inductance change: Within ±10%	将电感器放置在于湿度(90~95)%RH,温度(60±2) °C 的环境中存放(1000±24) h,在室温下放置 2 小时后、48 小时内测试。 Inductors shall be subjected to (90~95)%RH . at (60±2)°C for (1000±24) h . Placed at room temperature for 2 hours, within 48 hours of testing.
7.9	耐久性 (寿命) Life	外观无可见机械损伤; 电感量变化率: ±10%以内。 No visible mechanical damage. Inductance change: Within ±10%	温度(85 ±2)°C, 时间(1000±24) h,施加 Irms, 在室温下放置 2 小时后、48 小时内测试。 Inductors shall be store at (85±2)°C for (1000±24) hours with Irms applied. Placed at room temperature for 2 hours, within 48 hours of testing. 注: 加载电流时零件表面温度超过 125℃的, 需要对电流降额到零件表面温度不超过 125℃。 Note: If the surface temperature of the part over 125 °C when the current is loaded, the current need to reduce until the surface temperature of the part less than 125 °C.

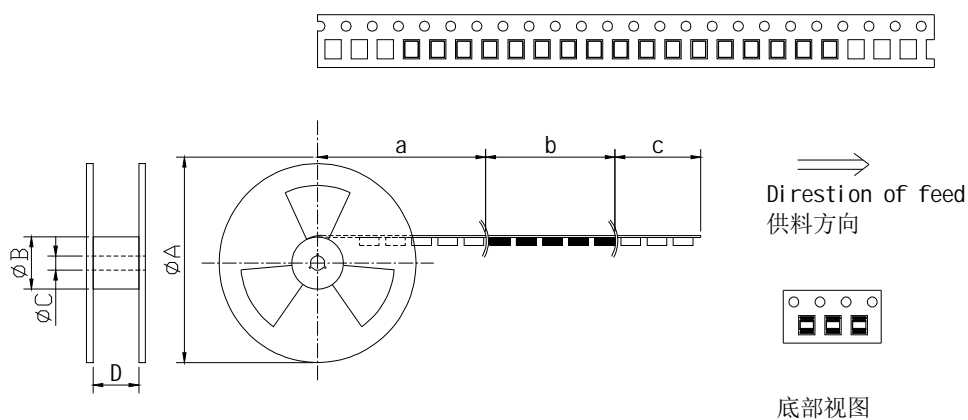
8. 包装 Package

8.1. 载带尺寸 Tape Dimension(单位: 毫米 Unit:mm)



Size	W	A0	B0	D	D1	E	F	K0	P0	P2	P	T
141208	8±0.3	1.5±0.1	1.7±0.1	1.5±0.1	1.0MIN	1.75±0.1	3.5±0.1	1.0±0.1	4.0±0.3	2.0±0.3	4.0±0.3	0.23±0.05
160808		1.05±0.1	1.85±0.1					1.0±0.1				
201208		1.45±0.1	2.25±0.1					1.0±0.1				
201610		1.85±0.1	2.25±0.1					1.15±0.1				0.25±0.05
252010		2.2±0.1	2.7±0.1					1.15±0.1				
252010		2.2±0.1	2.7±0.1					1.35±0.1				
322512		2.9±0.1	3.5±0.1					1.4±0.1				

8.2. 供料方向 Direction of Feed(单位: 毫米 Unit:mm)



A	B	C	D	a	b	c
178	58	13	8.4	空带	装元件	引带
Typical	Typical	Typical	Typical	Blank portions	Chip cavity	Leader

8.3. 包装数量 Packing Quantity

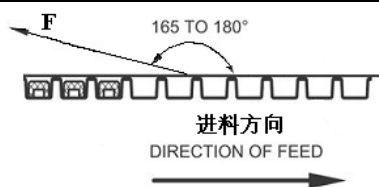
卷盘 REEL (PCS)	纸盒 BOX (PCS)	纸箱 Carton (PCS)
3,000	15,000	150,000

8.4. 剥离力要求 Peeling Required

8.4.1. F 力大小 F force: 10~130g;

8.4.2. 面带剥离速度 Peeling speed: 300mm/min±10%;

8.4.3. 面带剥离角度 Peeling angle: 165°~180°.



9. 推荐使用的焊接曲线 Recommended Soldering Profile

9.1. 本产品建议使用回流焊接法。

Applicable soldering process to the products is reflow soldering.

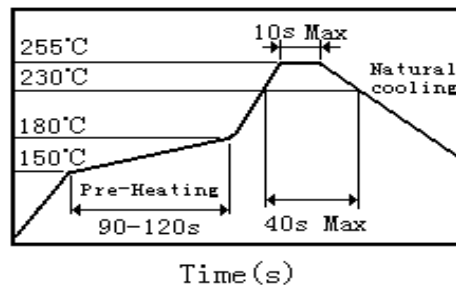
9.2. 焊接材料 Soldering Materials

(1)焊料 Solder: Sn-3.0Ag-0.5Cu

(2)助焊剂: 使用松香基助焊剂, 禁止使用卤化物含量超过 0.2wt%的强酸性助焊剂和水溶性助焊剂。

Flux: Use rosin-based flux, but prohibition of use acidic flux and water-soluble flux(with chlorine exceeding 0.2 wt%).

9.3. 焊接曲线 Soldering Profile



9.4. 烙铁焊接 Soldering Iron

使用烙铁进行返修时要求在 150°C 下预热至少 1 分钟, 不能直接用焊头接触磁体, 返修焊接条件如下:

Reworking with electric soldering iron must preheating at 150°C for 1 minute is required, and do not directly touch the core with the tip of the soldering iron. The reworking soldering conditions are as follows:

9.4.1. 烙铁头温度 Temperature of soldering iron tip: 350°C;

9.4.2. 烙铁输出功率 Soldering iron power output: $\leq 30W$;

9.4.3. 烙铁头直径 Diameter of soldering iron end: $\leq 1.0mm$;

9.4.4. 焊接时间 Soldering time: $< 3s$



10. 清洗 Cleaning

对本产品进行清洗操作前, 需确认以下条件:

The following conditions should be c when cleaning the products:

10.1.清洗温度: $\leq 60^{\circ}C$ (酒精清洗剂 $\leq 40^{\circ}C$)

Cleaning Temperature: $60^{\circ}C$ max. ($40^{\circ}C$ max. for alcohol cleaning agents)

10.2.超声波清洗, Ultrasonic:

输出 Output: 20 W/L max.

持续时间 Duration: 5 min max.

频率 Frequency: 28 to 40kHz

10.3.清洗时要避免 PCB 板和安装产品的共振。Avoid the resonance between PCB and mounted products when cleaning.

11. 贮存方法 Storage Methods

11.1.存储期限 Storage Period

为保证端子电极的焊接特性和包装材料处于良好状态, 请于本公司发货后 1 年内使用本产品。同时, 由于端子电极的焊接特性会随时间发生变化, 如果贮存时间超过 1 年, 请首先确认其焊接特性后再安装使用。

To maintain the solderability of terminal electrodes and keep the packing material in good condition, product should be used within 1 year since the manufacturing date. The solderability of products electrodes may decrease as time passes, so in case of storage period over 1 year, solderability shall be checked before actual use.

11.2. 存储条件 Storage Conditions

11.2.1. 存放货物的仓库应满足以下条件: The warehouse must meet with the following condition:

温度(Temperature): Inductors (product with taping) -10 to +40°C;

Inductors body -40 to +85°C.

相对湿度(Humidity): 30~70%RH.

11.2.2. 不要使产品遭受温度和湿度的快速变化。 Do not make the products suffering rapid changes in temperature and humidity.

11.2.3. 不要将产品存放在化学环境中,如硫酸气体或碱性气体中,否则会降低电极端子的焊接特性和使电感器腐蚀。 Do not store the products in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas, that will causes poor solderability and corrosion of inductors.

11.2.4. 不要以散包装的形式存放产品以防止电感器间的相互碰撞造成磁芯破裂或断线。 Do not store products in bulk packaging to prevent collision among inductors which causes core chipping and wire breakage.

11.2.5. 为了避免受潮气、灰尘等物质的影响,产品应保管于货架上。 Store products on pallets to protect from humidity, dust, etc.

11.2.6. 产品应避免热冲击、振动以及直接光照等等。 Avoid heat shock, vibration, direct sunlight, etc.

12. 环保情况说明 Environmental Protection Statement

RoHS 指令: 本公司产品符合 RoHS 指令。

Response to RoHS directive: Our products are RoHS compliance.

13. 使用注意事项 Precautions For Use

13.1. 本公司产品适用于 AV 设备、OA 设备、家电、信息服务等一般电子设备中。 Our products are designed and promoted for use in general electronic devices such as AV equipment, OA equipment, household appliance and information service.

13.2. 当本公司的产品使用在一般电子设备以外的领域时,对于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.

13.3. 本承诺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.

13.4. 不要对产品施加过大的振动或机械冲击; Do not apply excessive vibration or mechanical shock to products.

13.5. 为防止断线,请不要使用锋利的物体接触线圈,如镊子; Do not touch wire with sharp objects such as tweezers to prevent wire breakage.

13.6. 在产品贴装时不要使用过大的压力,避免磁芯断裂。 Do not apply excessive stress to products mounted on boards to prevent core breakage.