



SPECIFICATION FOR APPROVAL

产品规格承认书

Energy storage flat linear high current inductor

储能扁平大电流电感

CUSTOMER.

MODEL NO.

MT250026/250060P13-191K-1P-L-X-B

CUSTOMER'S PART NO.

LILE NO.

DATE.

2023.04.12

REVISION.

A/0

CUSTOMER APPROVE

DATE:

DRAWING

DRAWN BY

CHECK BY

APPROVAL BY

林思思

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曾伟

DATE: 2023.04.12



新能源光储充电子磁性元器件制造商



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1.PRODUCT DIMENSION		UNIT:mm	
<p>Technical drawings showing dimensions: A:80MAX, B:85MAX, B1:70MAX, C:85MAX, D:78±1.0, E:70±1.0, F:50±0.5, G:62±0.5. Assembly instructions: 红色为绝缘纸 (Red is insulation paper), 用50*50绝缘纸包裹线圈, 靠左对齐. (Use 50*50 insulation paper to wrap the coil, align to the left).</p>	A	80Max	
	B	85Max	
	B1	70Max	
	C	85±0.5	
	D	78±1.0	
	E	70±0.5	
	F	50±0.5	
G	62±0.5		

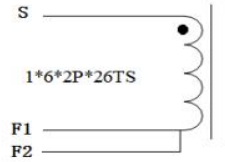
2.ELECTRICAL REQUIREMENTS			
PARAMETER	SPECIFICATION	CONDITION	TEST INSTRUMENTS
L(uH)	190±10%	10KHz,0.3V	MICROTEST 6377
DCR(mΩ)	20mΩMAX	At 25°C	
直流偏置	S-F1 S-F2	>80uH 60DC >30uH 180DC	MICROTEST 6377+6220
IDC(A) (额定电流)	75A	10KHz,0.3V	MICROTEST 6377+6220
Q值	100Min	10KHz,0.3V	MICROTEST 6377+6220
抗电强度	磁芯-线圈	<5mA	1500Vac,60s

3.MATERIAL LIST		
ITEM	MATERIAL	SUPPLIER
CORE	NPF2560026+NPS250060-P13	铂科/龙磁/普乐华
WIRE	扁平线-耐温220°C	佳腾/台一
SOLDER	TIN-Sn99.95	QIAN DAO

4.PRODUCT IDENTIFICATION			
<u>XX</u>	<u>XXXXXX</u>	-	<u>XXX</u> <u>X</u>
①	②	③	④
①、 Product Symbol ②、 Dimensions ③、 Inductance			
④、 Tolerance: J:±5% K:±10% L:±15% M:±20% P:±25% N:±30% Y min			

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5.ELECTRICAL SCHEMATICS



6.APPLICATION

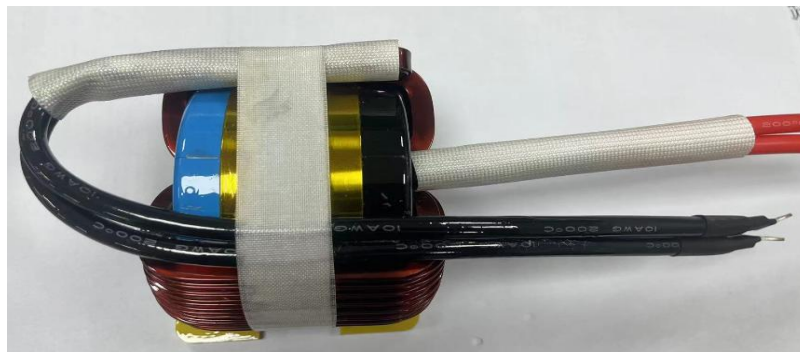
- (1)Power supplies, Switching circuits.
- (2)EMI/RFI chokes.
- (3)SCR and triac controls.
- (4)Power amplifiers.

7.FEATURES

- (1)Cost effective design.
- (2)ultra high current rating.

8.TEST DATA

SORT	ITEM	A	B	B1	C	D	E	F	G	
PRODUCT & DIMENSION	SPEC	80Max	85Max	70Max	85±0.5	78±1.0	70±0.5	50±0.5	62±0.5	
	1	76.56	82.65	67.26	67.59	78.02	70.32	50.06	62.06	
	2	76.62	82.69	67.29	67.89	78.03	70.35	50.04	62.03	
	3	76.50	82.56	67.28	67.85	78.01	70.36	50.05	62.04	
	4	76.53	82.65	67.25	67.88	78.00	70.32	50.36	60.01	
	5	76.54	82.69	67.35	67.98	78.59	70.36	50.01	62.09	
	X	76.55	82.65	67.29	67.84	78.13	70.34	50.10	61.65	
	R	0.12	0.13	0.10	0.39	0.59	0.04	0.35	2.08	

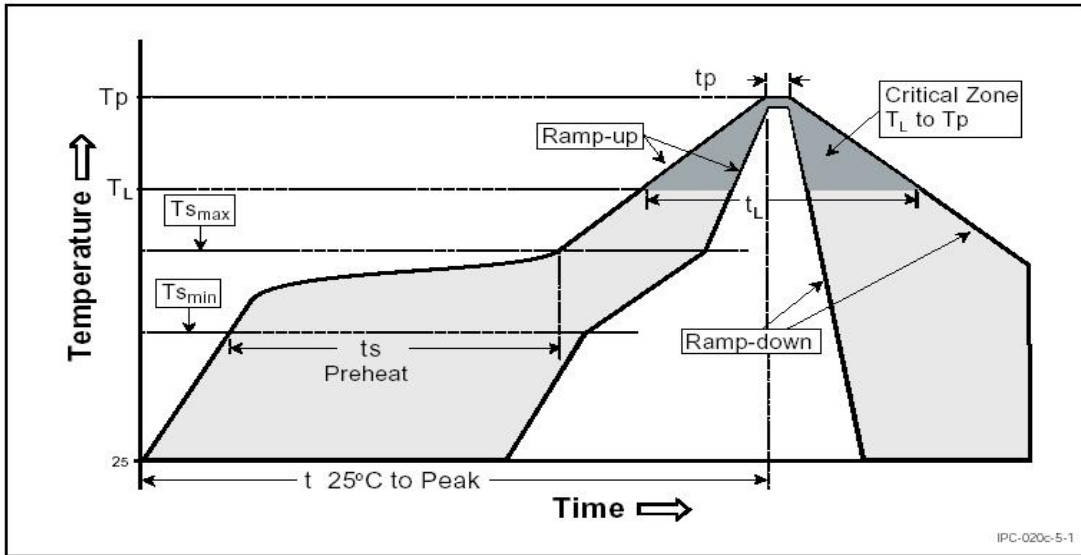


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项目Item	规格与需求 Specification and Requirement	测试方法Test Method			
可焊性 Solderability test	沾锡面积不得小于95%上锡面 Terminals area must have 95% min solder coverage	上锡升温曲线Solder heat proof: (1) 预热: 160±10°C持续90s Preheating: 160±10°C for 90 seconds (2) 恒温时段: 245±5°C持续2±0.5s Retention time: 245±5°C for 2±0.5 seconds			
振动测试 Vibration test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1) 振动频率(10Hz 55Hz 10Hz)60s为一个周期 Vibration frequency: (10Hz to 55Hz to 10Hz) in 60 seconds as a period (2) 振动时间 Vibration time: 三维正交坐标系每个方向振动(周期)循环2小时 Period cycled for 2 hours in each of 3 mutual perpendicular directions (3) 振幅 Amplitude: 1.5 mm Max			
冲击测试 Shock test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1) 最大振幅 Peak value: 100G (2) 脉冲波长 Duration of pulse: 11ms (3) 三维正交坐标系每个方向正负方向冲击3次 Times in each positive and negative direction of 3 mutual perpendicular directions			
冷热冲击 Thermal shock	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1)重复以上100个循环Repeat 100 cycle as follow (-40±2°C,30±3分钟) 室温5分钟 (-40±2°C,30±3 minutes) Room temperature,5 minutes (+125±2°C,30±3分钟) 室温5分钟 (+125±2°C,30±3 minutes) Room temperature 5 minutes			
耐高温测试 High temperature life test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1)环境条件: 85±2°C Environment condition : 85±2°C 应用电流: 额定电流 Applied current: Rated current (2)持续时间: 1000+4/-0 小时(参考注释1) Duration:1000+4/-0 hours (see Note1)			
耐湿测试 Humidity Resistance	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1)环境条件: 60±2°C Environment condition : 60±2°C 湿度: 90~95% Humidity:90~95% 应用电流: 额定电流 Applied current: Rated current (2)持续时间: 1000+4/-0 小时(参考注释1)			
低温存放测试 Low temperature life test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1)存储温度 Store temperature -40±2°C下存放 1000+4/-0 小时 -40±2°C for total 1000+4/-0 hours			
高温存放测试 High temperature life test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1)存储温度 Store temperature +125±2°C下存放 1000+4/-0 小时 +125±2°C for total 1000+4/-0 hours			

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Reflow curve

※ Reflow Profile



1. Reflow Soldering Method

Package Thickness	Volume mm ³ <350	Volume mm ³ 350 - 2000	Volume mm ³ >2000
<1.6 mm	260 +0 °C *	260 +0 °C *	260 +0 °C *
1.6 mm - 2.5 mm	260 +0 °C *	250 +0 °C *	245 +0 °C *
≥2.5 mm	250 +0 °C *	245 +0 °C *	245 +0 °C *

* Tolerance: The device manufacturer/supplier shall assure process compatibility up to and including the stated classification temperature (this means Peak reflow temperature +0 °C. For example 260 °C+0°C) at the rated MSL level.

1. 高温耐热性

在260°C的熔融钎料中，停留时间不少于10秒，无质量问题

2. 返修温度和时间

温度：350°C；时间：不少于5秒

3. 焊接次数

元器件能承受的焊接次数不少于5次

COILMX

深圳市迈翔科技有限公司

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11、包装 Packaging

11.1、尺寸 Dimensions

11.1.1 包装料带尺寸 Tape packaging dimensions

11.1.2 包装数量

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