



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.

MTB226026x2-161K-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

DATE: 2023.04.12



新能源光储充电电子磁性元器件制造商



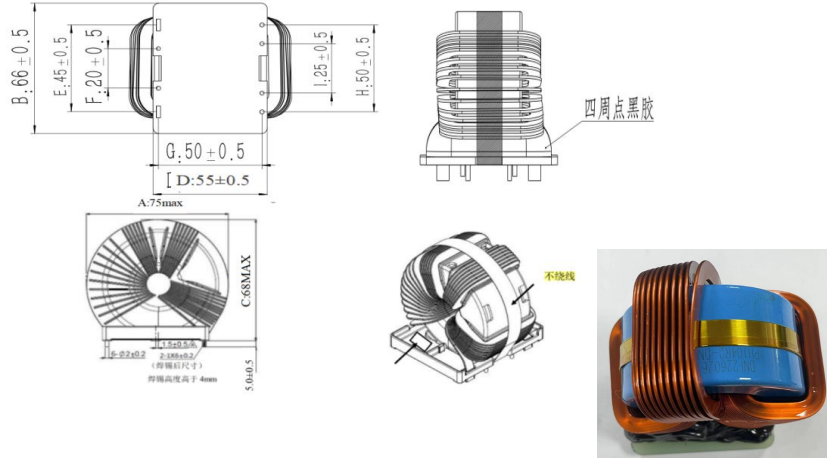
深圳市迈翔科技有限公司
惠州市迈翔电子有限公司

黄冈市迈翔电子有限公司 英德市迈翔电子有限公司

5~6F, Building B, Jinhao Smart Park, No. 207 Sihuan South Road, Zhongkai High tech
Zone, Huizhou City, Guangdong Province, China

TEL: +86 0752-3398115 3398116 3398117

Http: //www.coilcrafts.com www.coilmx.com E-mail: pxx@coilmx.com

CUSTOMER		MODEL NO.	MTB226026x2-161K-1P-L-X-B	REVISION	A/0
FILE NO.		PART NO.		DATE	2023.04.12
1.PRODUCT DIMENSION				UNIT:mm	
				A	75Max
				B	66±0.5
				C	68Max
				D	55±0.5
				E	45±0.5
				F	20±0.5
				G	50±0.5
				H	50±0.5
				I	25±0.5
2.ELECTRICAL REQUIREMENTS					
PARAMETER	SPECIFICATION	CONDITION		TEST INSTRUMENTS	
L(uH)	160±10%	10KHz,0.3V		MICROTEST 6377	
DCR(mΩ)	15mΩMAX	At 25℃		MICROTEST 6377+6220	
直流偏置	S-F	45A-DC	>120uH		
		160A- DC	>50uH		
IDC(A) (额定电流)	53A	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	NPF226026*2 P13		铂科/龙磁		
WIRE	扁平线-耐温220℃		佳腾/台一		
SOLDER	TIN-Sn99.95		QIAN DAO		
4.PRODUCT IDENTIFICATION					
XX XXXXXX - XXX X 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					

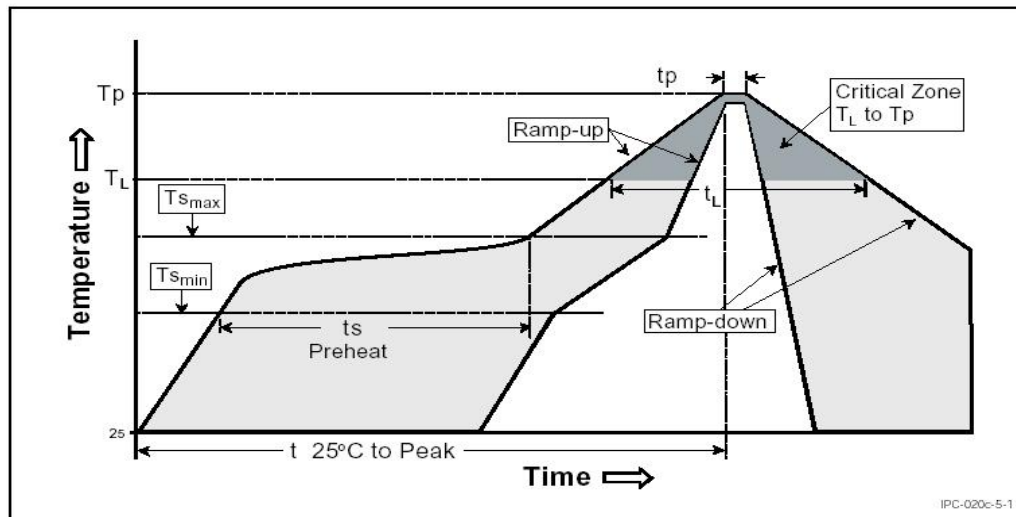
COILMX		深圳市迈翔科技有限公司								
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5.ELECTRICAL SCHEMATICS										
S 1*6 36Ts F 										
6.APPLICATION										
(1)Power supplies, Switching circuits.										
(2)EMI/RFI chokes.										
(3)SCR and triac controls.										
(4)Power amplifiers.										
7.FEATURES										
(1)Cost effective design.										
(2)ultra high current rating.										
8.TEST DATA										
SORT	ITEM	A	B	C	D	E	F	G	H	I
PRODUCT & DIMENSION	SPEC	75Max	66±0.5	68Max	55±0.5	45±0.5	20±0.5	50±0.5	50±0.5	25±0.5
	1	71.20	65.95	60.25	55.15	45.02	20.05	50.05	50.03	25.03
	2	71.50	68.95	60.25	55.12	45.06	20.03	50.02	50.06	25.01
	3	71.60	65.89	60.26	55.12	45.01	20.04	50.01	50.07	25.06
	4	70.69	65.89	60.52	55.12	45.03	20.03	50.06	50.01	25.03
	5	71.60	65.88	60.35	55.10	45.01	20.01	50.01	50.02	25.03
	X	71.32	66.51	60.33	55.12	45.03	20.03	50.03	50.04	25.03
	R	0.91	3.07	0.27	0.05	0.05	0.04	0.05	0.06	0.05
ELECTRICAL & REQUIREMENTS	ITEM	L(uH)	DCR (mΩ)	IDC(A) (额定电流)	DC BIAS			SHAPE:		
	SPEC	160±10%	15mΩMAX	53A						
	1	155.60	14.25	134.50	-13.6%					
	2	156.50	14.23	135.20	-13.6%					
	3	158.60	14.30	135.20	-14.8%					
	4	160.20	14.26	136.30	-14.9%					
	5	154.20	14.26	132.20	-14.3%					
	X	157.02	14.26	134.68	-14.2%					
	R	6.00	0.07	4.10	1.4%					

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项目Item	规格与需求 Specification and Requirement		测试方法Test Method		
可焊性 Solder ability 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℃持续90s Preheating: 160±10℃ for 90 seconds (2) 恒温时段: 245±5℃持续2±0.5s Retention time: 245±5℃ 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℃,30±3分钟) 室温5分钟 (-40±2℃,30±3 minutes) Room temperature,5 minutes (+125±2℃,30±3分钟) 室温5分钟 (+125±2℃,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℃ Environment condition : 85±2℃ 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℃ Environment condition : 60±2℃ 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℃下存放 1000+4/-0 小时 -40±2℃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℃下存放 1000+4/-0 小时 +125±2℃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/一箱16PCS  					