



**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: pxr@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	

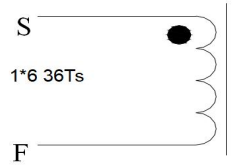
2.ELECTRICAL REQUIREMENTS			
PARAMETER	SPECIFICATION	CONDITION	TEST INSTRUMENTS
L(uH)	160±10%	10KHz,0.3V	MICROTEST 6377
DCR(mΩ)	15mΩMAX	At 25°C	MICROTEST 6377+6220
直流偏置	S-F	45A-DC >120uH 160A- DC >50uH	
IDC(A) (额定电流)	53A	10KHz,0.3V	MICROTEST 6377+6220
Q值	100Min	10KHz,0.3V	MICROTEST 6377+6220
抗电强度	磁芯-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°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			

CUSTOMER		MODEL NO.	MTB226026x2-161K-1P-L-X-B	REVISION	A/0
FILE NO.		PART NO.		DATE	2023.04.12

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

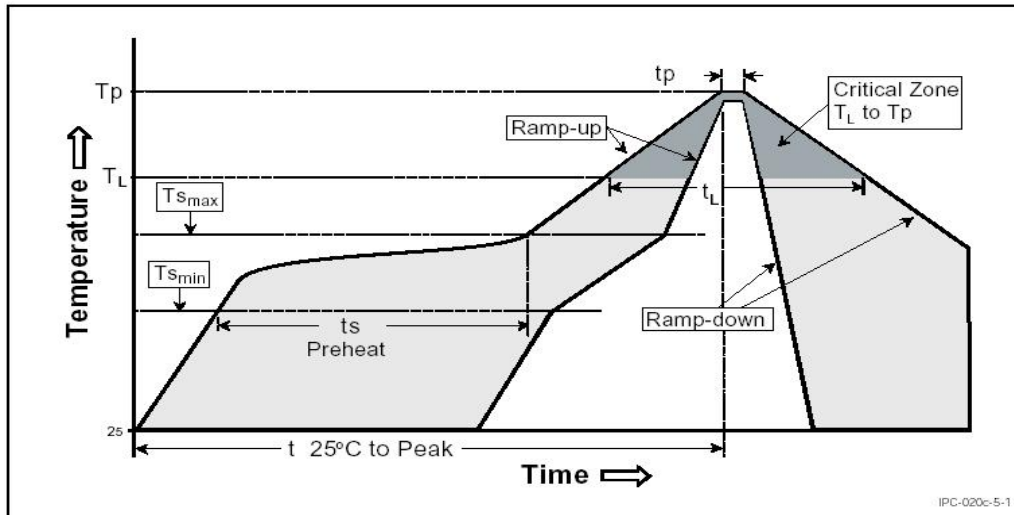
SORT	ITEM	A	B	C	D	E	F	G	H	I
PRODUCT & DIMENSION	SPEC	75Max	66±0.5	68Max	55±0.5	45±0.5	20±0.5	50±0.5	50±0.5	25±0.5
	1	71.20	65.95	60.25	55.15	45.02	20.05	50.05	50.03	25.03
	2	71.50	68.95	60.25	55.12	45.06	20.03	50.02	50.06	25.01
	3	71.60	65.89	60.26	55.12	45.01	20.04	50.01	50.07	25.06
	4	70.69	65.89	60.52	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%						

CUSTOMER		MODEL NO.	MTB226026x2-161K-1P-L-X-B	REVISION	A/0
FILE NO.		PART NO.		DATE	2023.04.12
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			

CUSTOMER		MODEL NO.	MTB226026x2-161K-1P-L-X-B	REVISION	A/0
FILE NO.		PART NO.		DATE	

Reflow curve

※ Reflow Profile



1. Reflow Soldering Method

Package Thickness	Volume mm <sup>3</sup> <350	Volume mm <sup>3</sup> 350 - 2000	Volume mm <sup>3</sup> >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

CUSTOMER		MODEL NO.	MTB226026x2-161K-1P-L-X-B	REVISION	A/0
FILE NO.		PART NO.		DATE	2023.04.12

**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**



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Fixed Inductors](#) category:*

*Click to view products by [COILMX](#) manufacturer:*

Other Similar products are found below :

[CR32NP-100KC](#) [70F224AI](#) [MHQ1005P10NJ](#) [MHQ1005P1N0S](#) [MHQ1005P2N4S](#) [MHQ1005P3N6S](#) [MHQ1005P5N1S](#) [MHQ1005P8N2J](#)  
[PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-R47-R](#) [HC8-1R2-R](#)  
[HCF1305-3R3-R](#) [1206CS-151XG](#) [RCH664NP-4R7M](#) [RCP1317NP-391L](#) [DH2280-4R7M](#) [DS1608C-106](#) [B10TJ](#) [B82498B3101J000](#) [ELJ-](#)  
[RE27NJF2](#) [1812CS-153XJ](#) [1812CS-183XJ](#) [1812CS-223XJ](#) [1812LS-104XJ](#) [1812LS-105XJ](#) [1812LS-124XJ](#) [1812LS-154XJ](#) [1812LS-223XJ](#)  
[1812LS-224XJ](#) [1812LS-563XJ](#) [1812LS-683XJ](#) [1812LS-824XJ](#) [NIN-FB101JTR110F](#) [NIN-FB471JTR62F](#) [NIN-FC1R5JTR220F](#) [NIN-](#)  
[HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#) [NIN-HDR82JTRF](#) [NIN-HK2N7STRF](#) [NIN-PA150KTR370F](#) [NIN-PB100KTR550F](#)