

SPECIFICATION
产品规格书

CUSTOMER 客户代码	SF-129
PRODUCT DESCRIPTION 产品描述	T18*10*8C R10K共模电感
Sunlord FuJun P/N 顺络富钧料号	DT180039-129
CUSTOMER P/N 客户料号	

☒ New Released新发行 ☐ Revised修订版

SPEC REV（版本）：A0

Approved By 批准	Checked By 审核	Issued By 发行
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【For Customer approval Only】

Date:_____

Qualification Status: Full Restricted Rejected

Approved By	Verified By	Re-checked By	Checked By

Comments: _____

【Version change history版本更改历史记录】

[illegible]

Caution

All products listed in this specification are developed, designed and intended for use in general electronics equipment. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require especially high reliability, or whose failure, malfunction or trouble might directly cause damage to society, person, or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below. Please contact us for more details if you intend to use our products in the following applications.1. Aircraft equipment2. Aerospace equipment3. Undersea equipment4. Nuclear control equipment5. Military equipment6. Power plant equipment7. Medical equipment8. Transportation equipment (automobiles, trains, ships, etc.)9. Traffic signal equipment10. Disaster prevention / crime prevention equipment11. Data-processing equipment12. Applications of similar complexity or with reliability requirements comparable to the applications listed in the above

注意：
本规范中列出的所有产品都是为通用电子设备开发、设计和使用的。产品的设计或保证不满足下列应用的要求，其性能和/或质量要求特别高的可靠性，或其故障、故障或故障可能直接导致对社会、人身或财产的伤害。请理解，我们对在以下任何应用程序中使用产品所造成的任何损坏或责任概不负责。如果您打算在以下应用中使用我们的产品，请与我们联系以了解更多详情。1.飞机设备 2.航空航天设备 3.海底设备 4.核子控制设备 5.军事装备 6.发电厂设备 7.医疗设备 8.运输设备（汽车、火车、轮船等） 9.交通信号设备 10.防灾/预防犯罪设备 11.数据处理设备 12.应用程序具有与上述应用程序类似的复杂性或可靠性要求。

- 1. Aircraft equipment 飞机设备
- 2. Aerospace equipment 航空航天设备
- 3. Undersea equipment 海底设备
- 4. Nuclear control equipment核控制设备
- 5. Military equipment 军事设备
- 6. Power plant equipment 发电厂设备
- 7. Medical equipment 医疗设备
- 8. Transportation equipment (automobiles, trains, ships, etc.) 运输设备（汽车、火车、轮船等）
- 9. Traffic signal equipment 交通信号设备
- 10. Disaster prevention / crime prevention equipment 防灾/预防犯罪设备
- 11. Data-processing equipment 数据处理设备
- 12. Applications of similar complexity or with reliability requirements comparable to the applications listed in the above
与上述应用程序具有类似复杂性或可靠性要求的应用程序

1. Scope范围

This specification is applied to the inductor DT180039-129 本规范适用于电感器 DT180039-129

2. Product Description and Identification (Part Number) 产品说明和标识（产品料号）

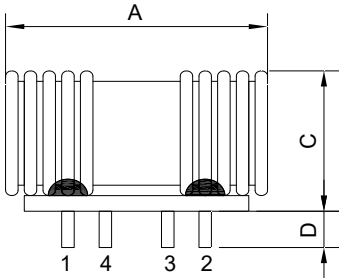
- a) Description: 描述: The inductor DT180039-129
- b) Product Identification (Part Number) 产品标识（产品料号）
- D T 18 0039 129
- ① ② ③ ④ ⑤

Named notes:命名注释:

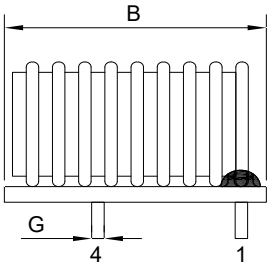
- ①Customized Products 定制产品
- ② Core Shape 磁芯形状
- ③Core Size 磁芯尺寸
- ④ Serial Number 产品序列号
- ⑤ Customer Code 客户代码

3. Shape and Dimensions 形状和尺寸

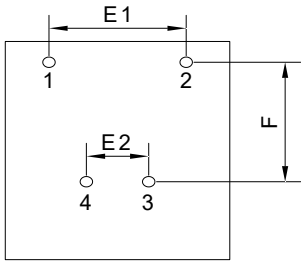
3.1 Shape 外形图



正视图



侧视图



底视图

Notes(备注) : For RoHS compliant products（环保部品）:

- 1.The Sunlord ordering code: DT180039-129
 顺络富钧料号DT180039-129
- 2.Soldering and fixing the base, coil and magnetic core
 点胶固定底座、线圈、磁芯
- 3.Wrap a strip of tape around the magnetic core before winding.
 绕线前磁芯包一圈高温胶带
- 4.The label is attached to the base plate, with the characters facing PIN3 and PIN4.
 标签贴在底板上，字脚朝PIN3、4

DT180039
SL YYWW

3.2 Dimensions (Unit: mm) 外形尺寸（单位:mm）

ITEM项目	A	B	C	D	E1	E2	F	G		
Unit单位 (mm)	22.5	23.0	15.0	3.50	11.0	5.00	11.5	1.0		
TOLERANCE 公差	MAX	MAX	MAX	±0.5	±0.5	±0.5	±0.5	±0.1		

3.3 Appearance 外观

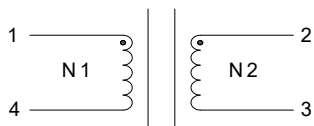
There is not the visual track and other mechanical damage on the product surface. Marking must be clearly and stable.

产品表面无视觉痕迹及其它机械损伤。 标识必须清晰稳定。

Core and other parts assembly stably. mounting dimensions and the location of the terminals should be in accord with standard.

磁芯与其他部件装配稳定。 端子的安装尺寸和位置应符合标准。

4.Circuit diagram 电路图：



. " : START OF WINDING

5.Winding construct 绕组结构图.:

6. Winding Specification 绕组规格

NO.	MARGIN TAPE WIDTH 挡墙宽度		START & FINISH TERMINAL 起收脚位				WIRE SPECIFICATION 线材规格	WINDING TURN 绕组匝数	METHOD 绕制方式	TAPE TURN 胶带圈数	NOTE 注意
	PIN1-7 SIDE 脚位侧	PIN8-15 SIDE 脚位侧	START 起脚	TUBE 套管	FINISH 收脚	TUBE 套管					
N1			1		4		2UEWF-NY 1.0mm*1p	10 TS REF	DENSE 密绕		
N2			2		3		2UEWF-NY 1.0mm*1p	10 TS REF	DENSE 密绕		

NOTE:

7. Electrical Characteristics 电气特性

ITEM 项目	TEST TERMINAL 测试脚位	TEST SPECIFICATION 测试规格	TEST CONDITION 测试条件	TESTER 测试仪器
INDUCTANCE 电感量	1--4=2-3	0.7mH MIN	10KHZ/1V 内阻100Ω	TH2829 OR Equivalent TH2829或等效设备
DCR 直流电阻	1--4=2-3	12mΩ MAX	25℃	TH2512B OR Equivalent TH2512B或等效设备
HI-POT 耐高压	COIL--COIL	No breakdown	AC 1200V 50Hz 1mA 60S	TH9320 OR Equivalent TH9320或等效设备
I.R 绝缘阻抗	COIL--COIL	100MΩ MIN	DC 500V	TH9320 OR Equivalent TH9320或等效设备

Test Condition: T=25±5℃, RH=65%±20% Operating Temperature: -40℃ to 125 °C

试验条件:T=25±5℃, 相对湿度=65%±20% 工作温度:-40℃~125℃

8. Material List

NO.序号	ITEM项目	MATERIAL DESCRIPTION 材料描述	TEMP. CLASS 耐温等级	VENDER.供应商	UL FILE NO. UL认证号
1	CORE 磁芯	T18*10*8C M10K	NA	TIANMING ✓	/
		T18*10*8C KH10	NA	KAITONG	/
2	WIRE 铜线	xUEWN/155, QA/X-x/155	155℃	NINGBO JINTIAN NEW MATERIAL CO LTD	E227047
		QPN/155, *UEW/NY/155	155℃	SHENZHEN DARUN SCIENCE AND TECHNOLOGY CO LTD	E508179
3	TAPE 胶带	PF* (d)(g)	180℃	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	E165111
4	SOLDER 锡	Sn Cu0.7	NA	WANSHAN	/
5	PCB 底座	HF-140	130℃	KINGBOARD LAMINATES HOLDINGS LTD	E123995
6	Epoxy 胶水	E-500 (XX)	130℃	DONGGUAN EATTO ELECTRONIC MATERIAL CO LTD	E218090

9. Packaging Information包装信息: (Unit单位 :mm)

9.1 Storage and Manufacturer存储和生产 :

9.1.1 Storage存储 : Recommended keeping conditions存储条件: -40℃~85℃, 5~95%RH (Max.)

Service life寿命 : Within the limits of twelve month from being produced成品12个月以内.

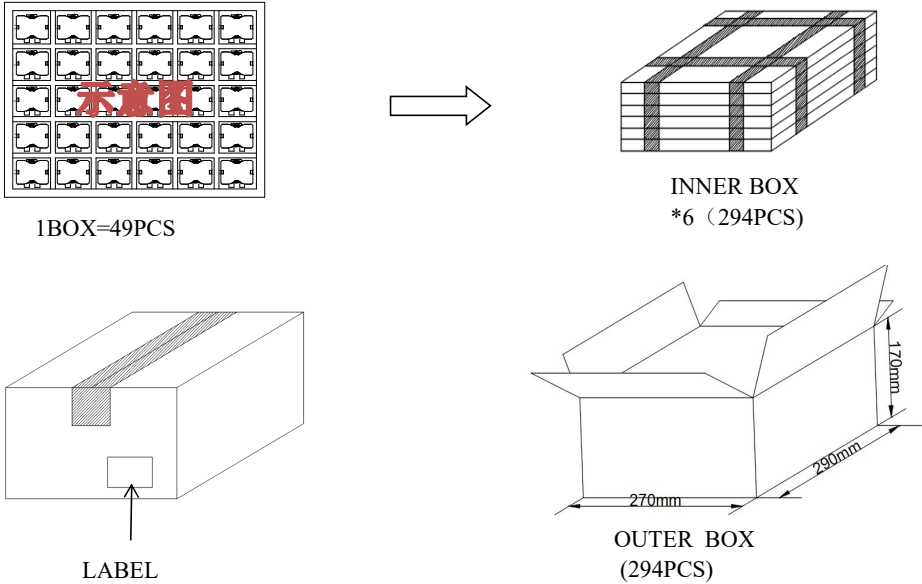
The appearance and solder ability should be check, If product is not in expiry date.产品超出有效期, 应检查外观和可焊性

9.1.2 Manufacturer制造商 : Sunlord FUjun New Energy Co., Ltd.顺络富钧新能源有限公司

NO.333,Fumin Middle Road, Tan qiao Town,ZhangjiagangCity,JiangsuProvince江苏省张家港市塘桥镇富民中路333号

TEL: +86-0755-82400574 FAX: +86-0755-82269029

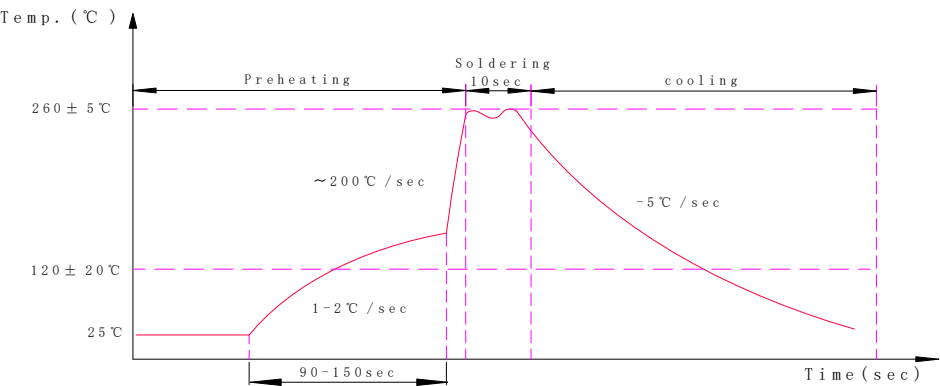
9.1.3 Packing: 包装:



Single weight/PCS: g
gross weight/box: KG
net weight/box: KG

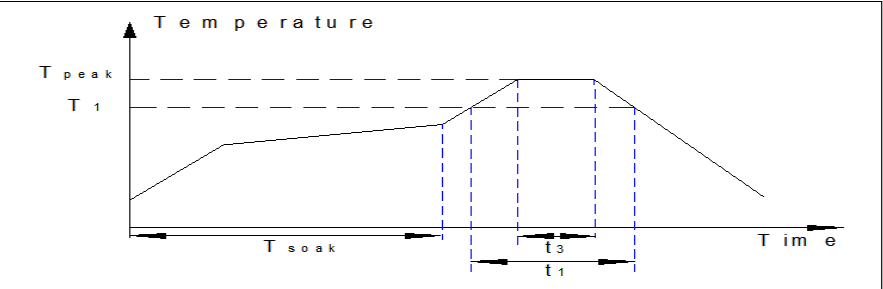
10. THERMAL PROFILE 焊接简要:

10.1 Wave flow soldering profile 波峰焊温度曲线:



Profile feature	Time	Temperature
Preheating time	90~150 sec	
Heating rate during preheat		1~2℃ / sec
Final preheat temperature		120±20℃
Ramp-up rate		~200℃ / sec
Dip time and temperature	2.5~5 sec	260±5℃
Ramp-down rate		~5℃ / sec

10.2 Reflow soldering profile 回流焊温度曲线:



Pb-free reflow profile requirements for soldering heat resistance			
Parameter	Reference	Specification	
		Large Body Thickness ≥2.5mm and Volume ≥350mm³	Small Body Thickness ≥2.5mm and Volume <350mm³
Temperature gradient in preheating		3°C/s max.	
Soak time 150°C- 200°C	Tsoak	60 -180 seconds	
Time above 217°C (T1)	t1	60 - 150 seconds	
Time within 5°C of actual peak	t3	20 -40 seconds	
Peak temperature in reflow	Tpeak	245°C (+0/-5°C)	250°C (+0/-5°C)
Temperature gradient in cooling		6°C/second Max.	
Time 25 °C to Peak Temperature		8 minutes Max.	