

SPECIFICATION

承 认 书

CUSTOMER（客户名称）	SF-129
PRODUCT DESCRIPTION（产品规格）	PQ36 BP96 Transformer(变压器)
Sunlord FuJun P/N（料号）	DPQ360002-129
CUSTOMER P/N（客户料号）	

☒New Released, ☐Revised

SPEC REV（版本）：A0

【This SPEC is total 7 pages.】共7页
【ROHS, Compliant Parts】

环保对应品

Approved By 批准	Checked By 审核	Issued By 制成
Jacky Looh 陆利兵	Andy Zhang 张矿利	CCY 常春雨

Shenzhen Sunlord Electronics Co., Ltd.
深圳顺络电子股份有限公司

Address: Sunlord Industrial Park, Dafuyuan Industrial Zone, Baoan, Shenzhen, China 518110

地址：深圳市龙华区观光路观澜大富苑顺络工业园

Tel: 0086-755-29832333 Fax: 0086-755-82269029 E-Mail: sunlord@sunlordinc.com

JiangSu Sunlord FuJun New Energy Co.,Ltd.
江苏顺络富钧新能源有限公司

Address: No. 333 Fuming Middle Road, Tangqiao Town,Zhangjiagang City, Jiangsu P.R., China 215600

地址：江苏省苏州市张家港市塘桥镇富民中路333号

Tel: 0086-0512-58910890 Fax: 0086-0512-58910863

【For Customer approval Only】

Date: _____

Qualification Status:

Full

Restricted

Rejected

Approved By	Verified By	Re-checked By	Checked By

Comments:

【Version change history】

[illegible]

Caution（注意事项）

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

本规范中列出的所有产品均已开发，设计用于一般用途电子设备。产品保证符合以下所列应用的要求，其性能和质量满足可靠性及失效要求，不会对社会及人身或财产造成损害。 请理解，我们不对在以下任何应用中使用产品造成的任何损害负责。如果您打算在以下应用场景使用我们的产品，请联系我们，以了解更多详细信息。1. 飞行设备 2. 航空航天设备 3. 海底设备 4. 核控制设备 5. 军工设备 6. 电源设备 7. 医疗设备 8. 运输电子设备 9. 交通信号设备 10. 防灾设备 11. 数据处理设备 12. 与上述应用具有相似复杂性及可靠性要求的应用场景。

1. Aircraft equipment（飞行设备）
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（军工设备）
6. Power plant equipment（电源设备）
7. Medical equipment（医疗设备）
8. Transportation equipment (automobiles, trains, ships, etc.)（运输电子设备）
9. Traffic signal equipment（交通信号设备）
10. Disaster prevention / crime prevention equipment（防灾设备）
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（与上述应用具有相似复杂性或可靠性要求的应用场景）

1. Scope

This specification is electronic transformer DPQ360002-129

本规格适用于变压器DPQ360002-129

2. Product Description and Identification (Part Number)

产品规格和标识（料号）

a) Description（规格）: DPQ360002-129 transformer（变压器）

b) Product Identification (Part Number)标识（料号）:

D PQ 36 0002 129

① ② ③ ④ ⑤

Named notes（名称说明）:

① Customized products（定制品）

② Core shape（磁芯形状）

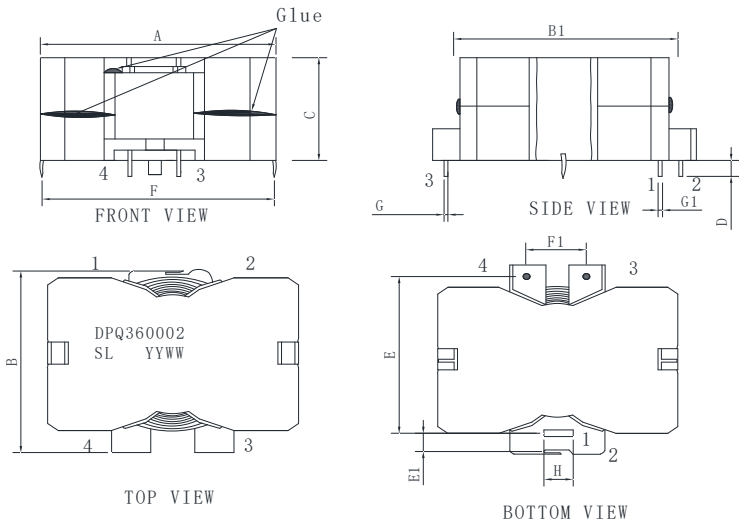
③ Core size（磁芯尺寸）

④ Serial number（流水号）

⑤ Customerter code（客户代码）

3. Shape and Dimensions

3.1 Shape



Note : For RoHS compliant products: 环保对应品

- 1.The Sunlord ordering code。
顺络富钧料号DPQ360002-129。
- 2.Full pin of bobbin; the air gap core is assembled at the pin side。
骨架为全脚,研磨磁芯置于PIN端。
- 3.Fixed the core with iron clips 。
用铁夹固定磁芯。
- 4. The core is fixed with gray soft glue at the middle column,and the core is fixed with 6 black hard glue at the core and the core and the bobbin。
磁芯中柱点灰色软胶,磁芯结合处及磁芯与骨架结合处点6点黑色硬胶固定。
- 5.Solder焊料: Sn/Cu锡铜。
- 6.The lable is laser printed on the top of theproduct,with the words facing PIN3-4 side。
标签激光喷码于产品顶部,字朝向PIN3-4侧。
- 7.The product does not requirer immersion in oil。
产品无需浸油。

DPQ360002
SL YYWW

3.2 Dimensions（外观尺寸）(Unit: mm)

ITEM	A	B	B1	C	D	E	E1
Unit(mm)	38.0	38.5	32.5	18.50	3.50	31.3	3.3
TOLERANCE (公差)	MAX	MAX	MAX	MAX	±0.5	±0.5	±0.3
ITEM	F	F1	G	G1	H		
Unit(mm)	35.5	6.0	SQ0.5*0.7	0.35	3.00	3.4	
TOLERANCE (公差)	±0.5	±0.5	±0.1	0.35-0.75	TYP	MAX	

3.3 Appearance（外观）

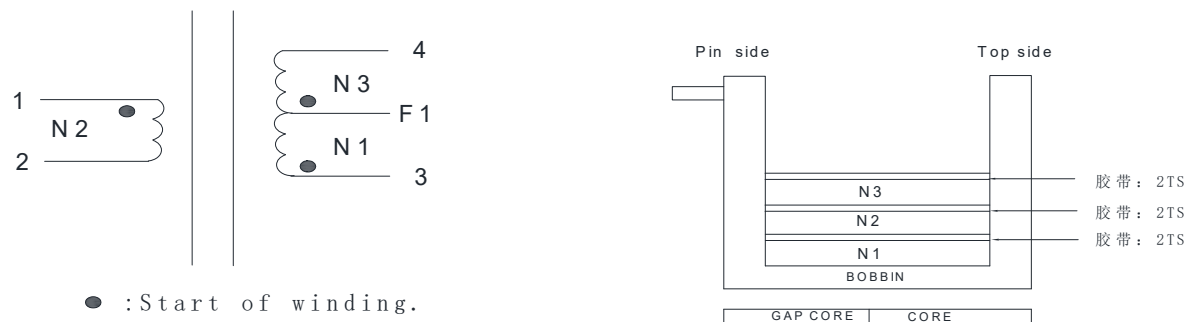
There is not the visual track and other mechanical damage on the product surface.Printing must be clearly and complete.

产品表面不可有可见痕迹和损伤, 喷印清晰完整。

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

磁芯需组合稳固, 产品符合封装要求和标准。

4.Circuit diagram & Winding construct:(电路&结构图)



5. Winding Specification

NO.	MARGIN TAPE WIDTH(挡墙)		START & FINISH TERMINAL（起始）				WIRE SPECIFICATION（线径）	WINDING TURN（圈数）	METHOD（绕线方式）	TAPE TUR（绝缘胶布）	NOTE（备注）
	PINSIDE	TOPSIDE	START	TUBE	FINISH	TUBE					
N1	/	/	3		F1		TIW-F Ø0.17*7P	6TS	DENSE（密绕）	2TS	
N2	/	/	1		2		T0.35mm*W5mm 背胶铜箔	2TS	DENSE（密绕）	2TS	
N3	/	/	F1		4		TIW-F Ø0.17*7P	6TS	DENSE（密绕）	2TS	

NOTES:1.N1,N3绕线中间不剪断。2. Cloclwise winding with the top side facing the machine.骨架顶部朝机台顺时针绕线。

3.绝缘胶布使用淡黄色胶布。

6. Electrical Test

TEST ITEM 测试项目	TEST FOOT POSITION 测试脚位	TEST SPECIFICATION 测试规格	TEST CONDITION 测试条件	Testing equipment 测试设备
INDUCTANCE 电感	1--2	2.5uH±7%	100KHz ,0.1V (内阻100Ω)	TH2829 OR Equivalent
LEAKAGE INDUCTANCE 漏感	1--2 (Short 3-4 pin)	1uH MAX	100KHz ,0.1V (内阻100Ω)	TH2829 OR Equivalent
DCR 直流电阻	1--2	3.0mΩ MAX	@25℃	TH2512B OR Equivalent
	3--4	130mΩ MAX	@25℃	
HI -POT 耐压	N1,N3 TO N2,CORE	No breakdown (无击穿)	AC3750V 5mA 6Sec	TH9320 OR Equivalent
	N2 TO CORE	No breakdown (无击穿)	AC1000V 5mA 6Sec	
Insulation Resistance 绝缘阻抗	COIL---CORE	100MΩ MIN	DC 500V	TH9320 OR Equivalent

Notes :

- 1.Test Condition（测试条件）：温度T=25±5℃，湿度RH=65%±20% 工作温度Operating Temperature: -40℃ to 125℃
(Including self-temperature rise包含自身温升)
- 2.Operating temperature rage（温度范围）:-40℃to+125℃
- 3.Life time at Twind（适用温度）=110℃ and Tcore（适用温度）=110℃:50000H Min

7. Material List(材料表)

NO. (序号)	ITEM (项目)	MATERIAL DESCRIPTION (材质)	TEMP. CLASS (耐温等级)	VENDER. (供应商)	UL FILE NO. (安规号)
1	BOBBIN	PM-9630 UL94V-0	150℃	SUMITOMO BAKELITE CO LTD	E41429
2	CORE	PQ3618 BP96✓	NA	JIANGSU BAICI IELECTRONICS CO.,LTD	/
		PQ3618 KF9	NA	ZHEJIANG HAINING LIANFENG MAGNET INDUSTRY CO.,LTD	/
3	TRIPLE INSULATION WIRE	FLW-F*	155℃	SUZHOU YUSHENG ELECTRONIC CO LTD	E332529
		TIW-F*	155℃	SHENZHEN KAIZHONG HEDONG NEW MATERIALS CO LTD	E357240
4	TAPE	PF*(d)(g)	180℃	JING JIANGYAHUA PRESSURE SENSITIVE GLUE CO.,LTD	E165111
		JY-201	200℃	JINGJIANG JINGYANG INSULATING PRODUCT CO LTD	E309872
		CT* (b)(g)	130℃	JING JIANGYAHUA PRESSURE SENSITIVE GLUE CO.,LTD	E165111
		JY-133	130℃	JINGJIANG JINGYANG INSULATING PRODUCT CO LTD	E309872
5	EPOXY	E-500(XX)	130℃	DONGGUAN EATTO ELECTRICONC MATERIAL CO.,LTD	E218090
		3300(XX)	90℃	SUZHOU EATTO ELECTRONIC MATERIALS CO LTD	E253983
6	COPPER FOIL	C1100	NA	SU ZHOU JINJI CO.,LTD	/
		C1100	NA	SHENZHEN ZIGAO CO.,LTD	/
7	CLIP	SK7	NA	JINJI	/
8	SOLDER	Sn Cu0.7	NA	SU ZHOU WANSHAN TIN CO.,LTD	/

8. Packaging Information:包装规范 (Unit :mm)

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

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

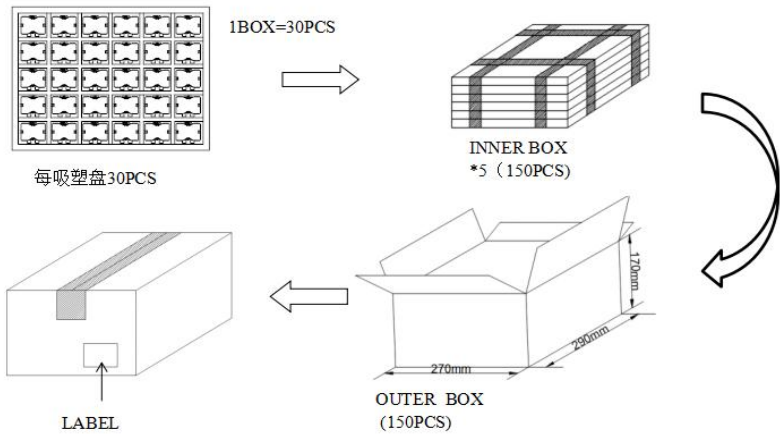
The appearance and solder ability should be check, If product is not in expiry date.产品超出有效期，应检查外观和可焊性

8.1.2 Manufacturer制造商 : Jiang su Sunlord FUjun New Energy Co., Ltd.江苏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: 0086-0512-58910890 Fax: 0086-0512-58910863

8.2 Packaging（包装）：



9. Reflow soldering profile for soldering heat resistance testing:回流焊焊接 (IPC/JEDEC J-STD-020D)

The reflow profile specified in this section describes expected maximum heat exposure of components during the reflow process of Sunlord SMD Transformer Components. Temperature is measured on top of component. All components have to tolerate at least this profile two times(2x) without affecting electrical performance, mechanical performance or reliability.

Pb-free reflow profile requirements for soldering heat resistance			
Parameter	Reference	Specification	
		Large BodyThickness ≥2.5mm and Volume≥350mm³	Small BodyThickness ≥2.5mm andVolume <350mm³
Temperature gradient inpreheating		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 PeakTemperature		8 minutes Max.	

Note: The table is defined by Sunlordinc’s SMD Transformer components range, for the peak solder temperature rating of other components body, please refer to table 5-2 in IPC/JEDEC J-STD-020D.

