



样品承认书

Specification of Approval

客户名称 Customer Name: _____

产品名称 Part Name: _____

样品编号 Sample Number: _____

认定盖章 Approved Signatures			
核准 Approval	品管 QC	工程 Engineer	业务 Salesman

承认单位 Recognition Unit: _____

客户反馈意见 Customer Feedback: _____

认定盖章 Approved Signatures			
核准 Approval	品管 QC	工程 Engineer	采购 Buyer

电话 Tel:

邮箱 E-mail:

传真 Fax:

地址 Add:



1、描述 Descriptions

- SLTP312S 是用于红外遥控系统的单透镜小型SMD-IR接收器，内含高速高灵敏光电二极管和前置放大器，采用环氧树脂封装成红外滤光片。其主要优点是即使在受干扰的环境中也具有可靠的功能，并且能够防止输出脉冲失控。

The SLTP312S is a small single lens SMD-IR receiver for infrared remote control system. It contains high speed and high sensitivity photodiode and preamplifier, and is packaged with epoxy resin to form infrared filter. The main advantages are reliable functionality even in disturbed environments and the ability to prevent runaway output pulses.

2、特性 Features

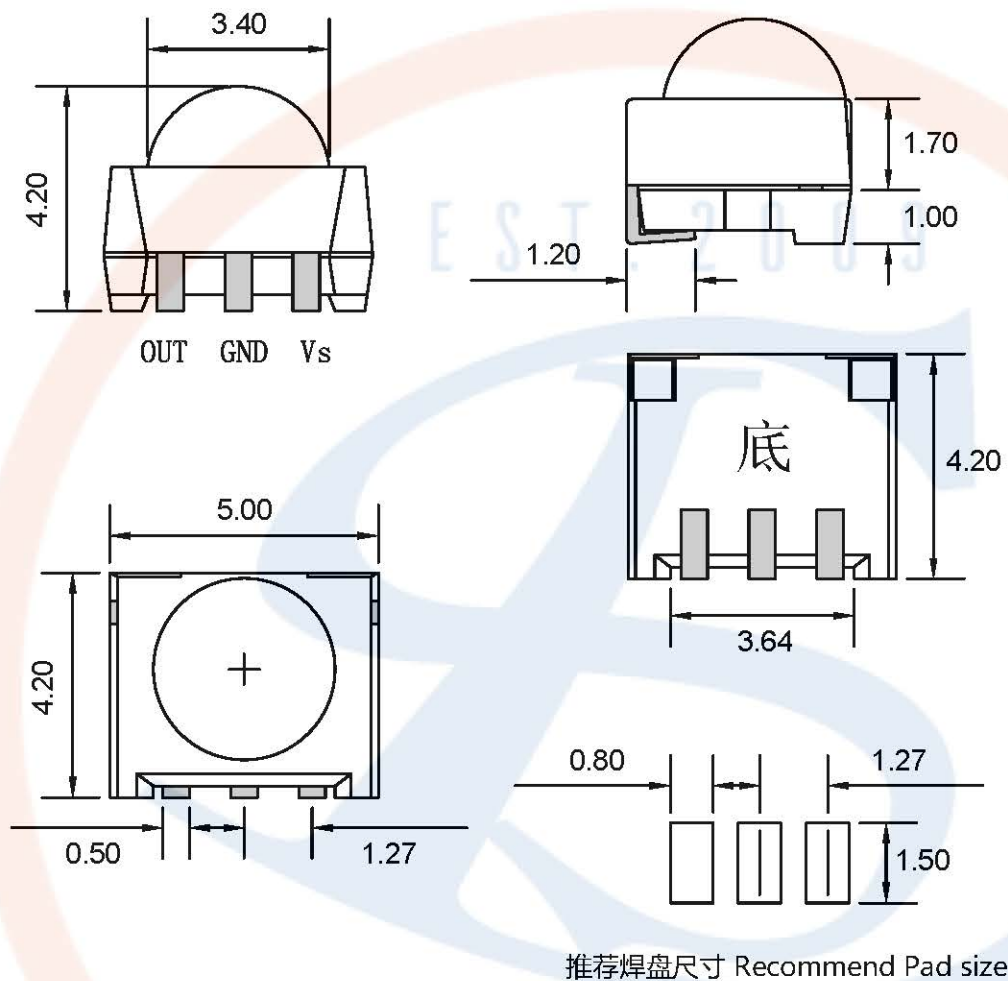
- 环氧塑封封装
Epoxy plastic packaging
- 宽工作电压：2.7V~5.5V
Wide operating voltage: 2.7V~5.5V
- PCM频率的内部滤波器
Internal filter for PCM frequency
- TTL和CMOS兼容性
TTL and CMOS compatibility
- 抗各种光干扰能力强
Strong resistance to all kinds of light interference
- 符合 RoHS
Compliant RoHS

3、应用 Applications

- 电视，录像机，音响设备，空调，汽车音响，电脑和所有需要遥控的电器。
TV, VCR, audio equipment, air conditioner, car audio, computer and all electrical appliances that need remote control.



4、产品尺寸 Package Dimensions

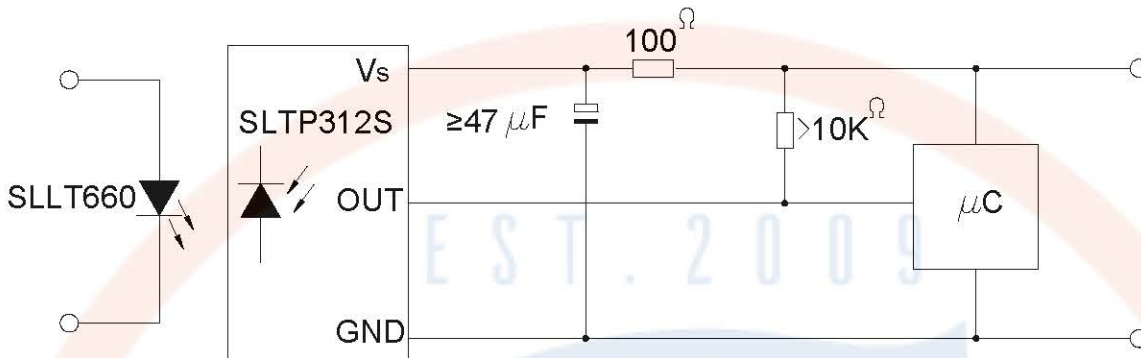


备注: 所有尺寸单位均为 mm, 如无特殊说明误差范围为 $\pm 0.3\text{mm}$ 。

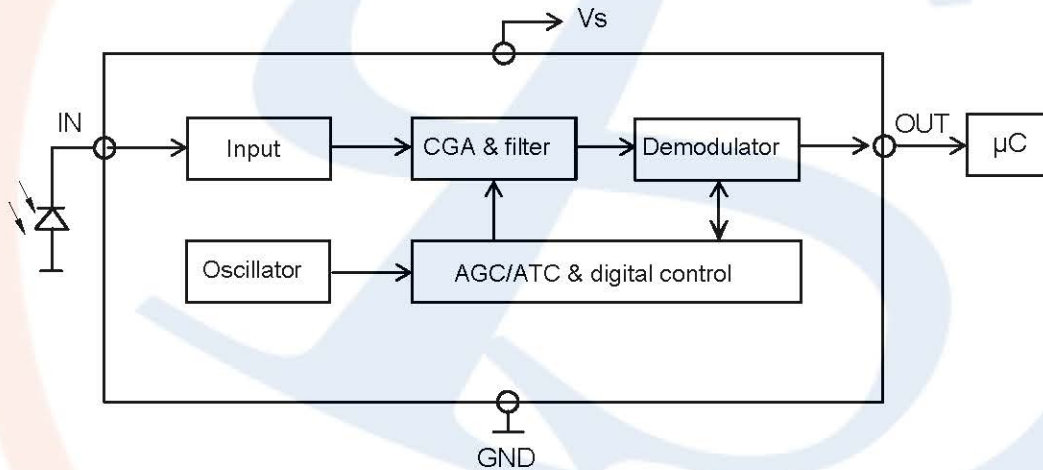
Note: All dimensions in mm, tolerance is $\pm 0.3\text{mm}$ unless otherwise noted.



5、应用电路图 Application Circuit Diagram



6、原理图 Block Diagram



7、极限参数 Absolute Maximum Ratings (Ta=25°C)

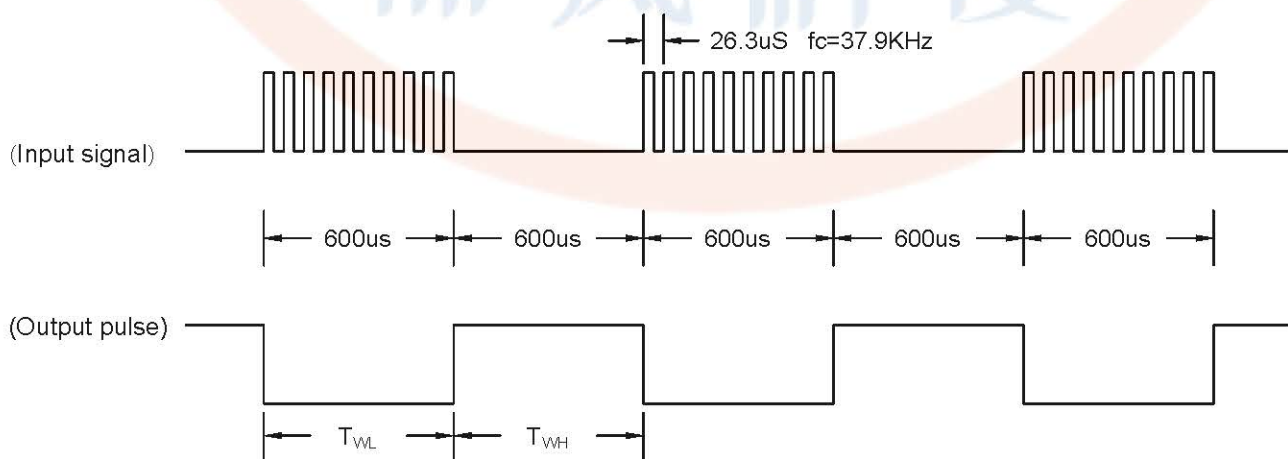
参数 Parameter	符号 Symbol	额定值 Rated Value	单位 Unit
电源电压 Supply Voltage	Vs	6	V
工作温度 Operating Temperature	Topr	-25--+85	°C
储存温度 Storage Temperature	Tstg	-40--+125	°C
焊接温度 welding Temperature	Tsol	260±5(5s以内) 260±5(Within 5 seconds)	°C



8、光电参数 Typical Electrical & Optical Characteristics (Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Condition	最小 Min	典型 Type	最大 Max	单位 Unit
供电电流 Supply Current	Is	Vs =5V, Ev = 0lux	--	0.22	--	mA
工作电压 Operating Voltage	Vs	--	2.7	--	5.5	V
接收距离 Receiving Distance	L	--	--	18	--	M
接收角度 Receiving Angle	2θ _{1/2}	距离衰减1/2 distance attenuation 1 / 2	--	±45	--	Deg
低电平输出 Output Voltage Low	V _L	Isink=2.5mA	--	0.2	0.4	V
高电平输出 Output Voltage High	V _H	Vs = 5V	4.8	5.0	--	V
载波频率 Carrier Frequency	f _o	--	--	37.9	--	kHz
峰值波长 Peak Wavelength	λ	--	--	940	--	nm
输出脉冲宽度 Output Pulse width	T _{WL}	Fin=37.9kHz,burst wave Vin=500μVp-p	400	--	800	μs
	T _{WH}	Fin=37.9kHz,burst wave Vin=50mVp-p	400	--	800	μs

9、测试波型 Test Wave Pattern

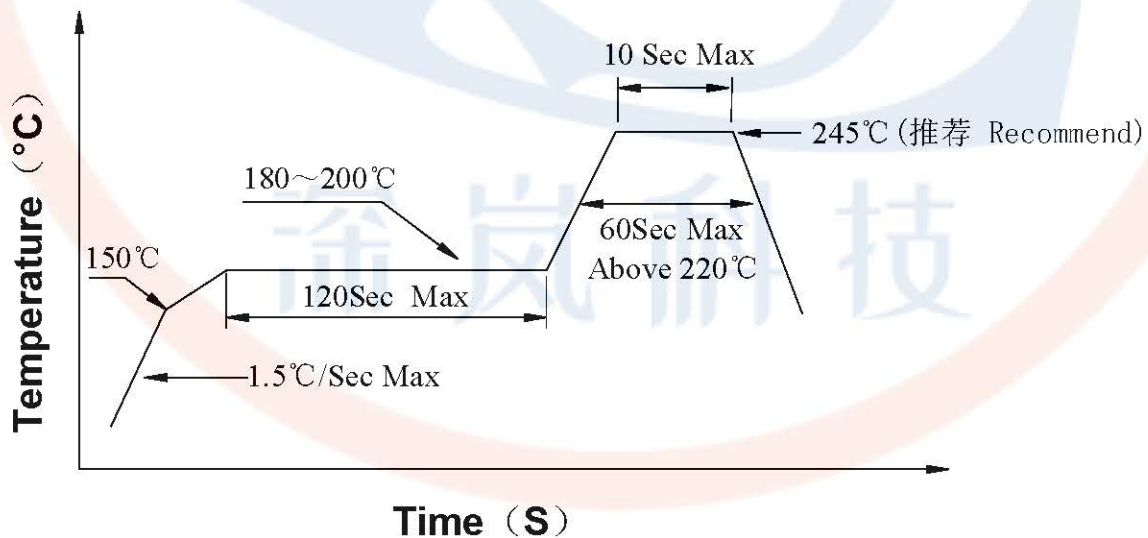




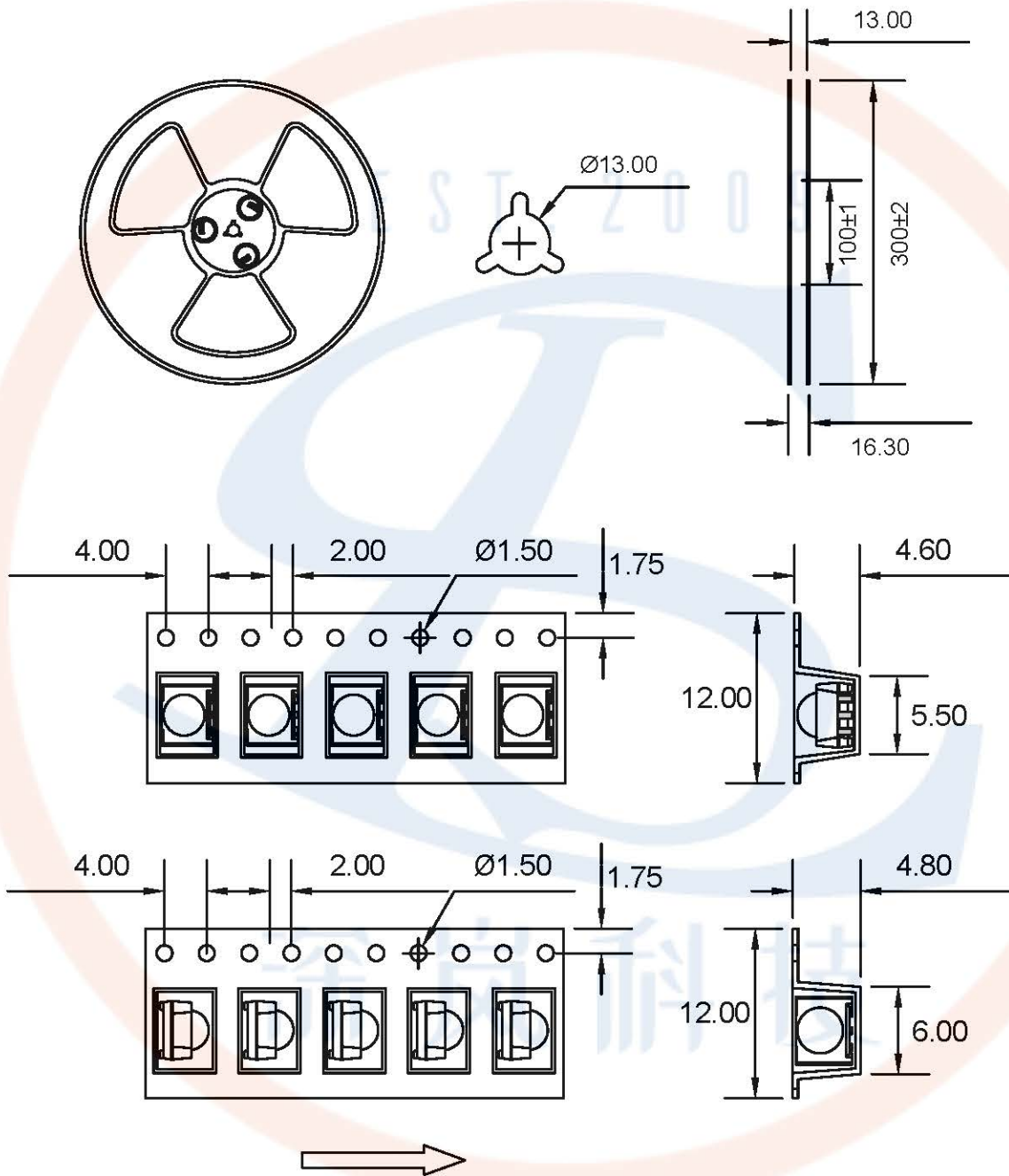
10、可靠性测试 Reliability Test

测试项目 TEST ITEM	测试条件 TEST CONDITION	测试时间 TEST TIME	样品数量 SAMPLE NUM	合格数量 OK NUM
焊接耐热温度 Resistance To Soldering Heat	温度 $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Temperature $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$	5s以内 Within 5 seconds)	20	20
静电破坏实验 Electrostatic Damage Experiment	$C=100\text{pF}$, $R=1.5\text{k}\Omega$, 2kV	--	20	20
高温储存 High Temperature Storage	温度 $+85^{\circ}\text{C}$	240H	20	20
低温储存 Low Temperature Storage	温度 -20°C	240H	20	20
高温高湿 High Temperature High Humidity	温度 85°C ; 湿度 90% $T_a = +85^{\circ}\text{C}$, $90\%\text{RH}$	240H	20	20
热循环 Heat Cycle	$-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$ (0.5H)	20 个循环 20cycle	20	20

11、焊接温度曲线 Welding Temperature Curve



12、包装尺寸 Package Dimensions



备注: 所有尺寸单位均为 mm, 如无特殊说明误差范围为 $\pm 0.3\text{mm}$ 。

Note: All dimensions in mm, tolerance is $\pm 0.3\text{mm}$ unless otherwise noted.



13、使用注意事项 Precautions

① 焊接条件 Soldering Conditions

- 回流焊：请不要超过两次焊接，两次回流焊时间间隔不可超过 24 小时。

Reflow soldering: please do not weld more than twice, and the time interval between two reflow soldering shall not exceed 24 hours.

- 烙铁：请在 25W 以下 3 秒内进行 1 次焊接。

Soldering iron: Please weld once within 3 seconds under 25W.

- 请避免树脂部分浸入锡槽。

Please avoid partial immersion of the resin in the tin bath.

- 浸焊后请避免矫正位置。

Avoid correcting the position after immersion welding.

- 焊接时，在材料被加热的状态下请不要施加压力。

When welding, please do not apply pressure when the material is heated.

② 防静电 Antistatic

- 本产品是对静电敏感的产品，在使用上需要十分注意。特别是在超过最大额定的电流和电压时会损害或破坏产品。在使用产品时请做好安全的静电和电涌防护措施。

This product is sensitive to static electricity and needs great attention in use. Especially when the maximum rated current and voltage are exceeded, the product will be damaged or damaged. Please take safe electrostatic and surge protection measures when using the product.

- 检查通电电路，电流开关时的电涌不要超过最大额定电流，对于驱动电路请插入适当的保护电路。

Check the power on circuit. The surge during current switching shall not exceed the maximum rated current. For the drive circuit, please insert an appropriate protection circuit.

- 作为使用中的静电和电涌的措施，人体接地（通过 1M 欧姆），导电性垫子，导电性工作服，导电性鞋和导电性容器都是比较有效果的。

As a measure of static electricity and surge in use, human body grounding (through 1m Ohm), conductive pads, conductive work clothes, conductive shoes and conductive containers are more effective.

- 带电的产品与低电阻的金属表面等接触时由于急剧的放电现象所引发障碍的危险性变高。与产品接触的工作台请用导电性垫子等通过电阻接地。

When a charged product contacts a metal surface with low resistance, the danger of obstacles caused by rapid discharge becomes higher. The workbench in contact with the product shall be grounded through resistance with conductive pad, etc.



●烙铁的尖端请注意接地。另外，对于容易发生静电的环节，推荐使用离子发生器。

The tip of the soldering iron should be grounded. In addition, ion generator is recommended for links prone to static electricity.

●由于静电而产生的不良品请确认措施的可靠性。

For the defective products caused by static electricity, please confirm the reliability of the measures.

③ 储存 Storage

●在产品准备好使用之前，请勿打开静电袋。

Do not open the electrostatic bag until the product is ready for use.

●打开包装前，产品应保持在 30℃及以下，相对湿度 70%及以下。

Before opening the package, the product shall be kept at 30 °C or lower and 70% relative humidity or lower.

●打开包装后，产品应保持在 30℃及以下，相对湿度 60%及以下。

After opening the package, the product shall be kept at 30 °C or lower and 60% relative humidity or lower.

●烘烤处理：60±5℃烘烤 24 小时。

Baking treatment: bake at 60 ± 5 °C for 24 hours.

④ 产品声明 Product declaration

●使用本产品前，请务必提前进行测试，确认是否适合使用。

Before using this product, be sure to test it in advance to confirm whether it is suitable for use.

●以上规格如有变更，恕不另行通知，以样品为准。

The above specifications are subject to change without notice, and the samples shall prevail.