



翔光電子股份有限公司 函
Sharlight Electronics Co., Ltd.

公司地址：231 新北市新店區中正路54巷26號2樓
連絡電話：(02) 8911-0758分機 (508)
傳 真：(02) 8911-0698
連絡人：Joyce Wu 日期: January 8th, 2020

受文者：J.B.G METAFIX

主 旨：Sharlight Electronics Distributor Declaration
說 明：

J.B.G METAFIX is admitted to be a distributor by Sharlight Electronics. The contract period is from November 15th, 2019 to November 15th, 2020. Due to good and long transaction history with J.B.G METAFIX, Sharlight Electronics strongly support J.B.G as Sharlight distributor.

For the past 7 years, we appreciate J.B.G's support and cooperation. We rate J.B.G as one of our trusted customer for years and we have faith on them.

We are honored and pleasure to cooperate a company that has high reputation. It's glad for Sharlight to have this golden opportunity to show others our trusted friend and partner.

Our hope is to establish mutually beneficial trading relations between Sharlight Electronics and J.B.G METAFIX and wish our future cooperation will be smooth and pleasant. .

SHARLIGHT ELECTRONICS CO., LTD.

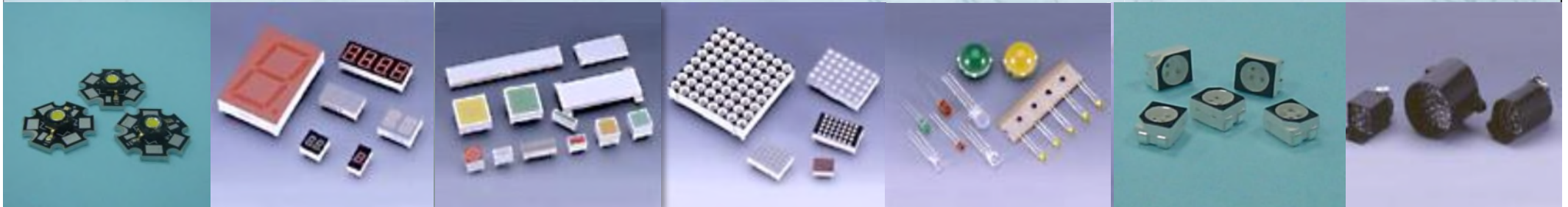


翔光電子股份有限公司

SHARLIGHT ELECTRONICS CO., LTD.

東莞翔滢電子有限公司

DONG-GUAN SHAR-IN ELECTRONICS CO., LTD.

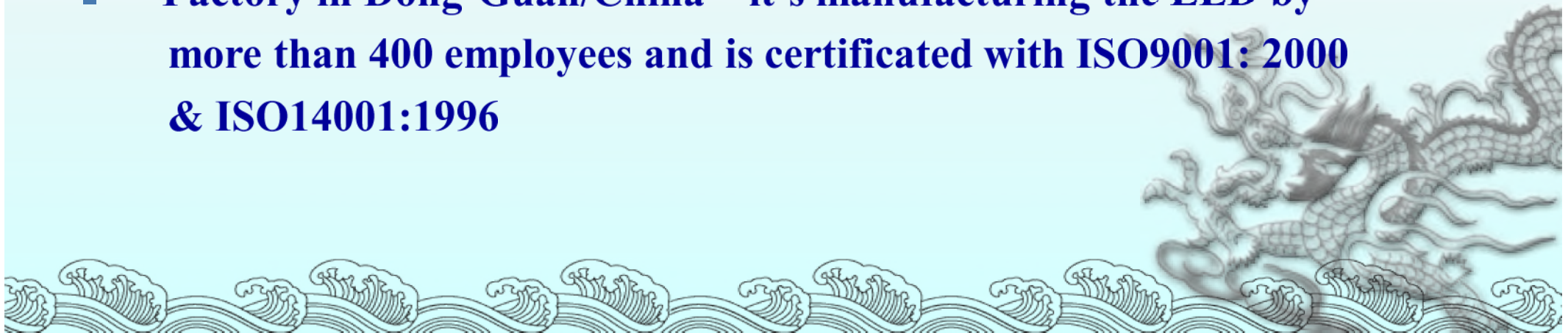


A PROFESSIONAL MANUFACTURER OF LED
PRODUCTS

Brief Introduction:



- **SHARLIGHT Electronics Co., Ltd** was established in 1987 as a well-experienced manufacturer and exporter of LED.
- **Head office in Taipei/Taiwan** – it's a new office since Feb. 2002 and is handling the order operation, R&D and the sampling at 30-employee basis.
- **Factory in Dong-Guan/China** – it's manufacturing the LED by more than 400 employees and is certificated with **ISO9001:2000 & ISO14001:1996**



Company History:



- 1987 SHARLIGHT Electronics Co., Ltd was founded in Taipei/Taiwan
- 1992 SHARHAO Electronics Co., Ltd. was founded in Shen-Zhen City
- 1997 SHARHAO was moved to Dong-Guan City
- 1999 R&D Lab. was founded in Taipei City
- 2000 SHARHAO was moved to a new location with 10000M² area
- 2000 Set up an Auto-line for Super Bright White, Blue & UV LED
- 2001 SHAR-IN was founded in Dong-Guan/Qi-Shi
- 2004 SHAR-IN office is set up in Taipei/Taiwan for LED Gift Items
- 2005 Set up an Auto-line for PLCC SMD & LED Gift Items
- 2006 Set up Auto-line for LED Moving Sign & Super bright SMD
- 2007 Set up Auto-line for Full Color Panel with RGB Dot Matrix, LED Lighting & 1W/3W Hi-Power LED

1987

1992

1997

1998

1999

2001



Taipei office

ShenZhen
factory

DongGuan
factory

ISO9002

R&D LAB

New Factory



Corporate Concepts:

- SHARLIGHT keeps maintaining a steady spirit - to expand our market by quality.
- At the new age, SHARLIGHT keeps consecrating to the development, high Technology and the thorough Inspection.
- Our primary aim is to resolve customer problems and to fully meet customer demands.
- SHARLIGHT is a rigorous and potential company.

➤ **Goal in 2014 – US\$ 8,000,000**





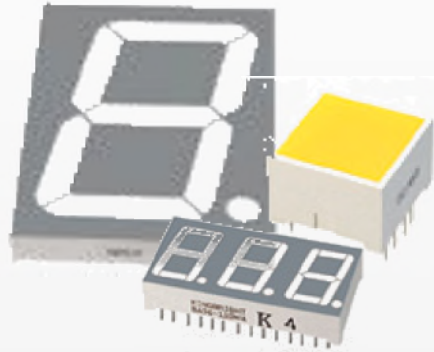
President's Maxim:

- **Do the limitless things in the limited time.**
- **The victory belongs to the people who has the positive attitude and positive thinking.**
- **To be not used to the environment is the beginning of progress.**



President: *Scott Wu*

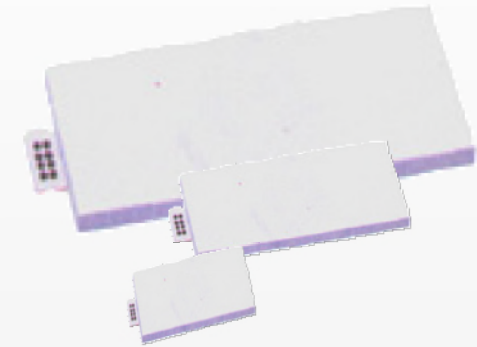
Product Introduction of LED Components :



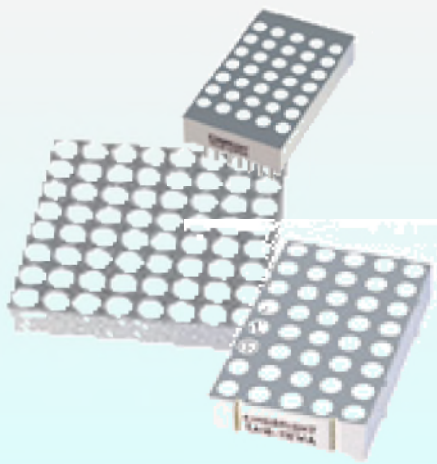
LED Display



RGB LED



Back Light



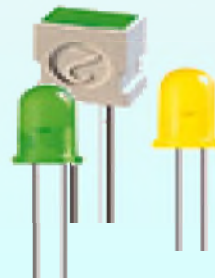
LED Dot Matrix



RGB Display



Outdoor Cluster



LED Lamp



Product Introduction of SMD LED:



5050 Top SMD



9280 Top SMD



3020 Top SMD



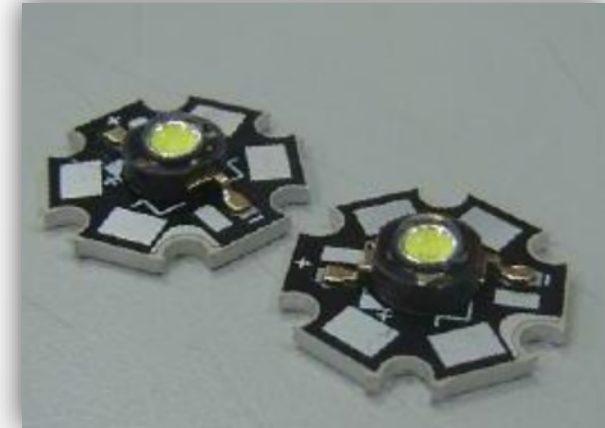
3528 Top SMD



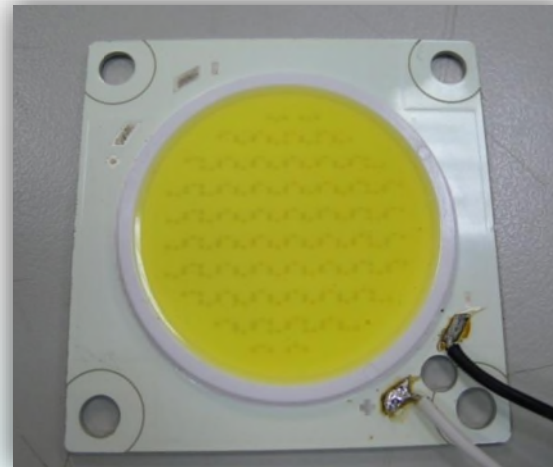
Product Introduction of Hi-Power LED:



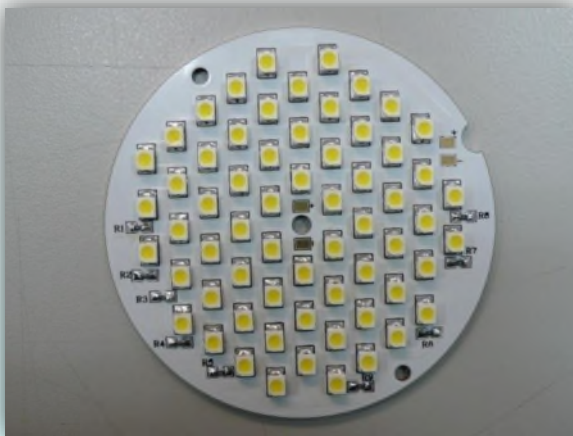
1W/3W LED Emitter



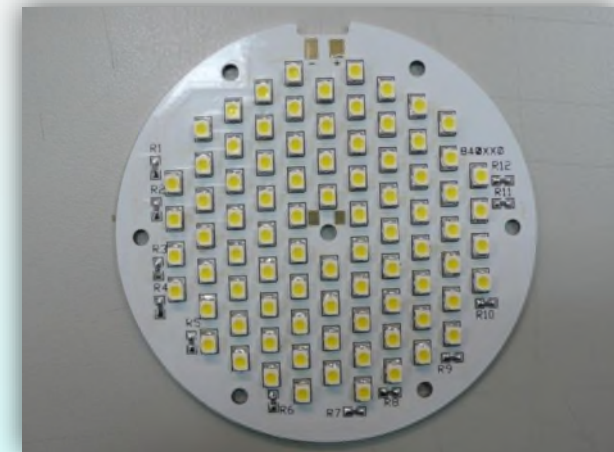
1W/3W STAR



**10W Multi-Chip
Lamp Board**



**PAR30 10W
Lamp Board**



**PAR38 15W
Lamp Board**

Product Introduction of LED Lighting I :



5W MR16 (90°)



15W PAR38



5W MR16 (60°)



16W AR111



10W PAR30



16W PAR38 Spot Light



8.5W PAR30 Spot Light



Product Introduction of LED Lighting II :



Induces Lamp(10W)



UFO Lamp(10W)



30cm 3W Tube



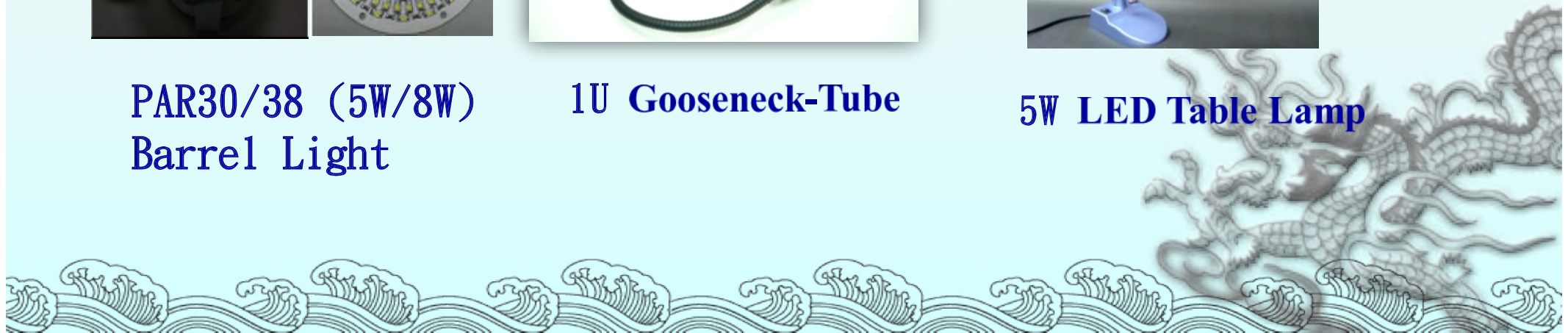
PAR30/38 (5W/8W)
Barrel Light



1U Gooseneck-Tube



5W LED Table Lamp



Product Introduction of LED Lighting III:



AR111 (16W) 25°/40°



AR111 (10W)



LED T8 Tube 2ft./ft.



T8 Fluorescent Lamp



Street Light
100W/180W



E27 (2W)



E27 (5W)



E27 (7W)



E27 (10W)

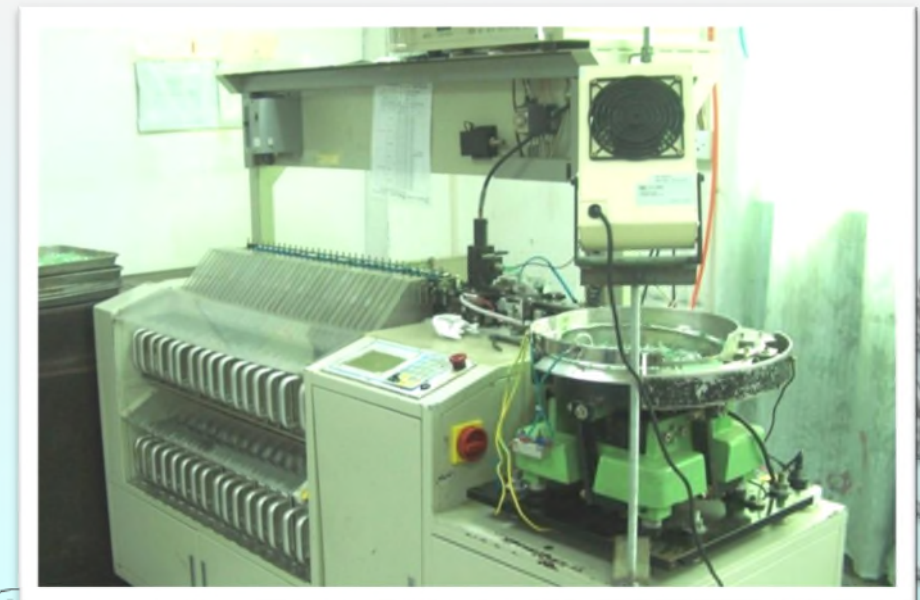




Production Ability:

- **With 20-years experience, we possess a powerful technical team**
- **and the advanced automatic equipments for our quality assurance.**

- **Due to the professional engineers & the thorough facilities, our**
- **process has been improved and the production capacity is augmented**
- **and shorten lead time become true.**



Production Capacity:



- **LED Display** →
 - Yearly: 30 KK pcs
 - Monthly: 2.5 KK pcs
- **LED Lamp** →
 - Yearly : 188 KK pc
 - Monthly : 15 KK pcs
- **Back Light** →
 - Yearly : 25 KK pcs
 - Monthly : 2 KK pcs
- **PLCC SMD** →
 - Yearly : 240 KK pcs
 - Monthly : 20 KK pcs
- **HI-POWER** →
 - Yearly : 18 KK pcs
 - Monthly : 1.5 KK pcs
- **LIGHTING** →
 - Yearly : 120 K pcs
 - Monthly : 10 K pcs



Quality Assurance System:



■ **Quality Policy →**

- Cost saving, High efficiency, Quality improvement, Customer satisfaction

■ **Quality Goal →**

- Minimize and prevent the defects –
 - 1) <500PPM in production process
 - 2) <100PPM for finished product
- Reduce customer's complaint (1 quality issue per month at most)

■ **Quality Promise →**

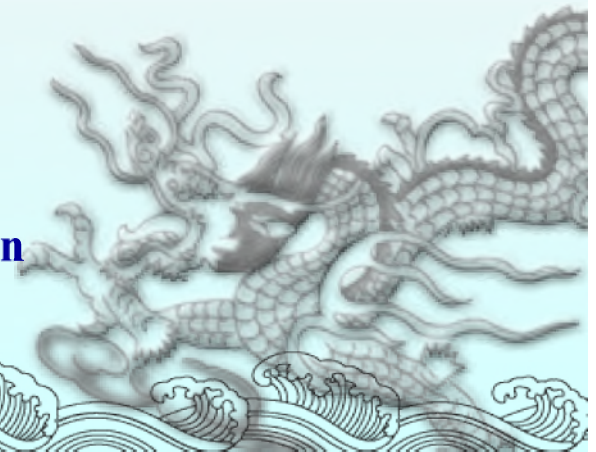
- No defective parts, no defective production & no defective product Quality
- is the top priority in SHARLIGHT Electronics Co., LTD.

■ **Quality Plan →**

- MIL-STD-105E level II
- AQL: Critical: 0.1 Major: 0.25 Minor: 1.0
- Material specification
- Process specification
- Product specification

We possess much severe and higher criteria than our competitors in

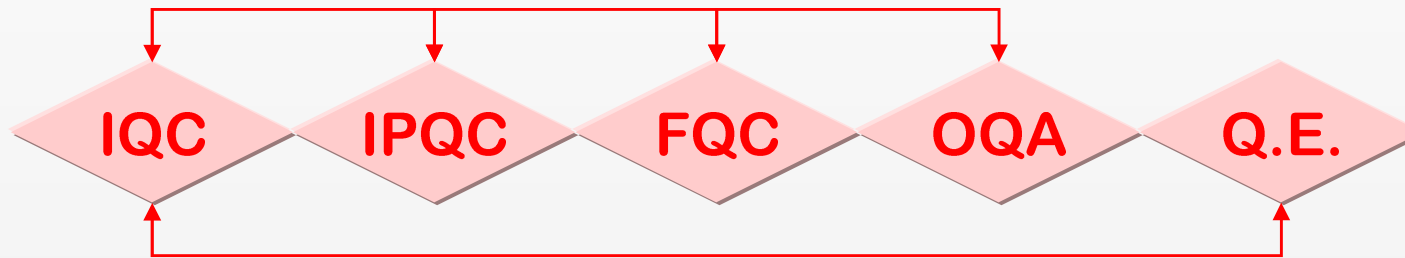
- ◆ **LED field no matter in Taiwan or China.**



Quality Assurance System:



- **Quality Control →**
- **Quality control function**



We use the precise QA equipments to control and to improve our quality process and prevent defects. Each semi-finished unit is precisely tested and all the LED are thoroughly tested before delivery.

Testing parameter:

Pushing test	Die bonding strength $\geq 100g$ for LED/Display or $\geq 50g$ for SMD
Pulling test	Tension $\geq 8g$ for LED/Display or $\geq 10g$ for SMD
Auto-tester	IF=20mA & VR=5V
CIE Sorter	Vf, IV, Hue, CCT

Quality Assurance System:



■ **Quality Control** →

- Testing Instruments/Equipments –
- Automatic Bin-Sorting Machine
- Pushing Tester
- Pulling Tester
- Auto Tester
- CIE Sorter
- View Angle Tester

■ **Quality management** →

- Model S370 Brightness Tester
- Supplier Qualification and management
- Material evaluation and approval
- Update the ECR/ECN procedures
- Internal/external calibration on Regular testing & manufacturing equipments
- Regular quality meeting to improve quality issue and to review the effectiveness of quality system
- Regular 5S check and performance evaluation
- Maintain a complete job training program



Quality Assurance System:



- **Quality assurance:**
 - Maintain ISO 9001/14001 system
 - Compliant with ROHS requirement
 - Burn-in test on each product
 - Product Reliability test



Room Temperature Operation Life	Ta=25°C , If=20mA , t=1000hrs, IP=80mA, Duty Ratio=1/8, PW=1.25mS
High Temperature Operating Life	Ta=80°C , If=20mA, t=24hrs
Wet High Temperature Storage Life	Ta=85°C , RH=85%, t=240hrs
Low Temperature Operating Life	Ta=-20°C, If=10mA, t=1000hrs
Temperature Cycle	Ta=-20°C ~ +80°C, t=7hrs
Thermal Shock	Ta=-30°C ~ +80°C, t=4hrs
Lead Bending Stress	> 250g (0°~90°~0° for 3 times)
Soldering Ability	230°C for 5 Sec.
Heat Impedance after Soldering	Immersed 260°C for 5 Sec., 1.6mm from the body
Soldering Heat Resistance	IR Reflow
Red Ink Proof	Red Ink

Global Marketing:



- At the beginning of establishment, all the products are nearly made for the domestic market.
- After the market expansion, 75% of the sales amount are distributed to several Overseas Countries since 1989.
- Now, we have 1000 more buyers from Worldwide (Europe, American, Asia, Africa & Ocean Area).

► **Sales Amount in 2013 is US\$ 4,600,000**



Contact Us:



Thank you!

CHINA FACTORY:

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