

O-leading

O-Leading PCB PCB PCB PCB EMS
HDI PCB PCB PCB

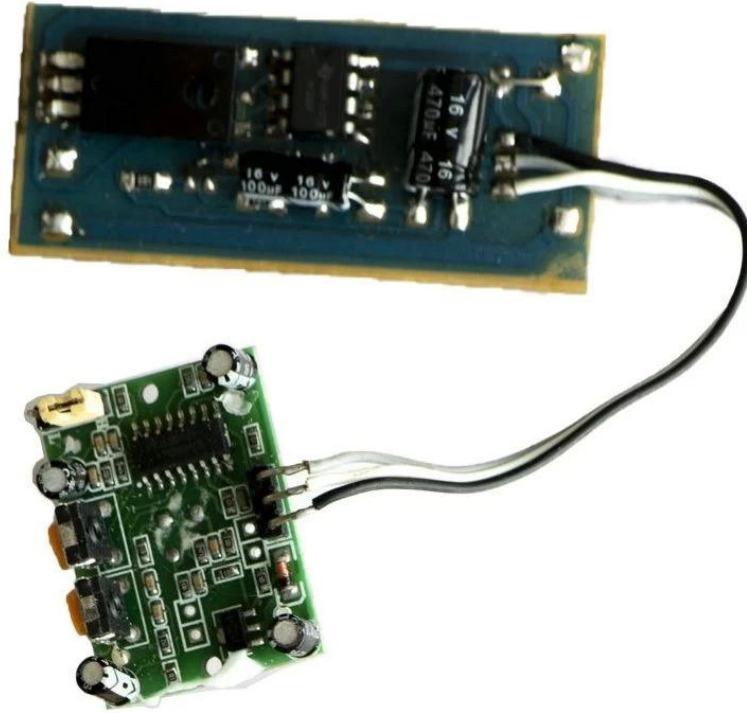
O-leading PCB PCBA

[SMDLED PCB 12W](#)

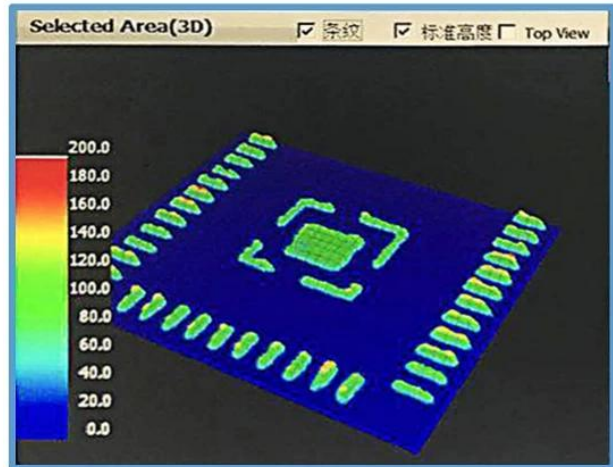
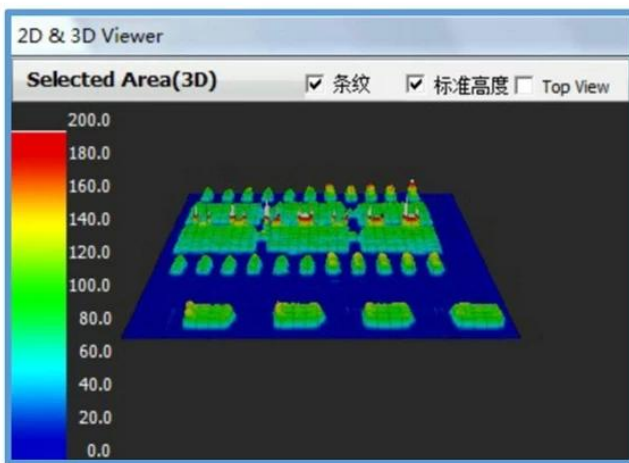
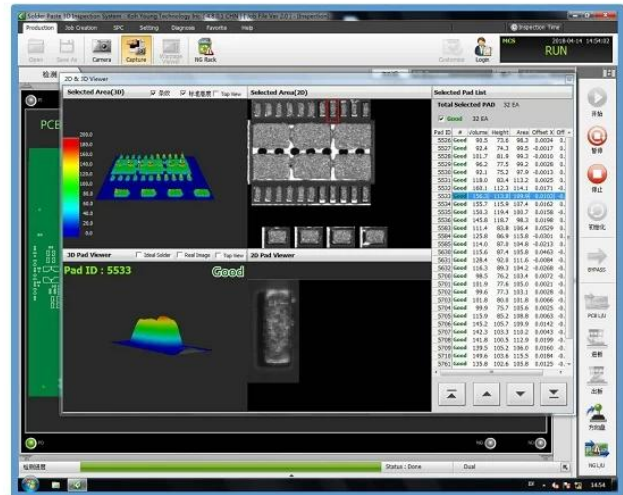
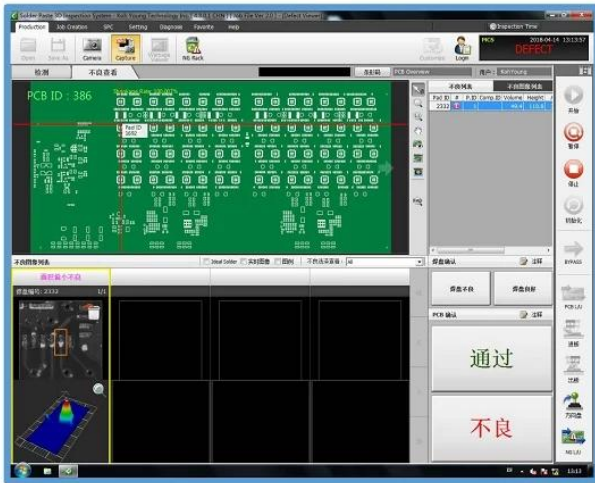
We take care PCB & PCBA



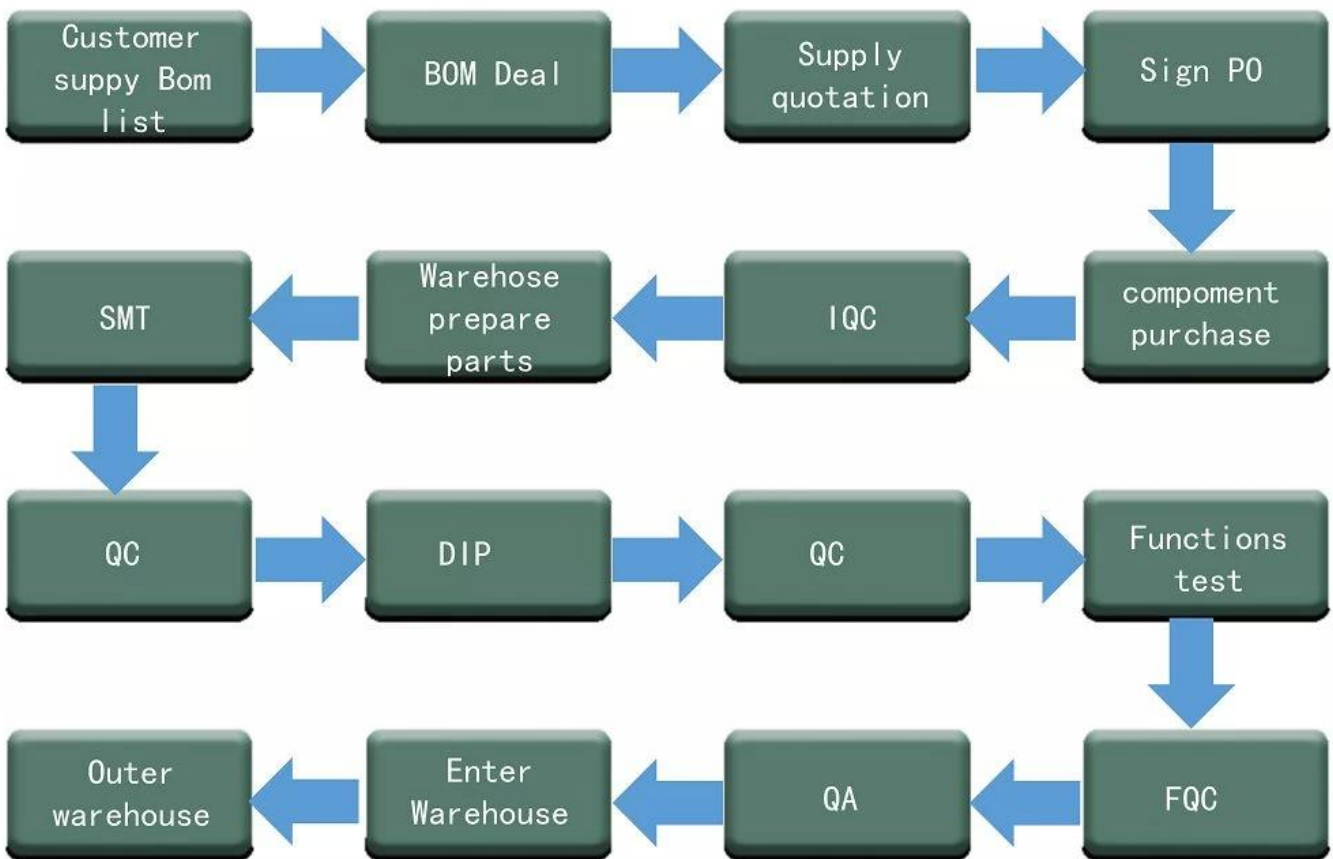




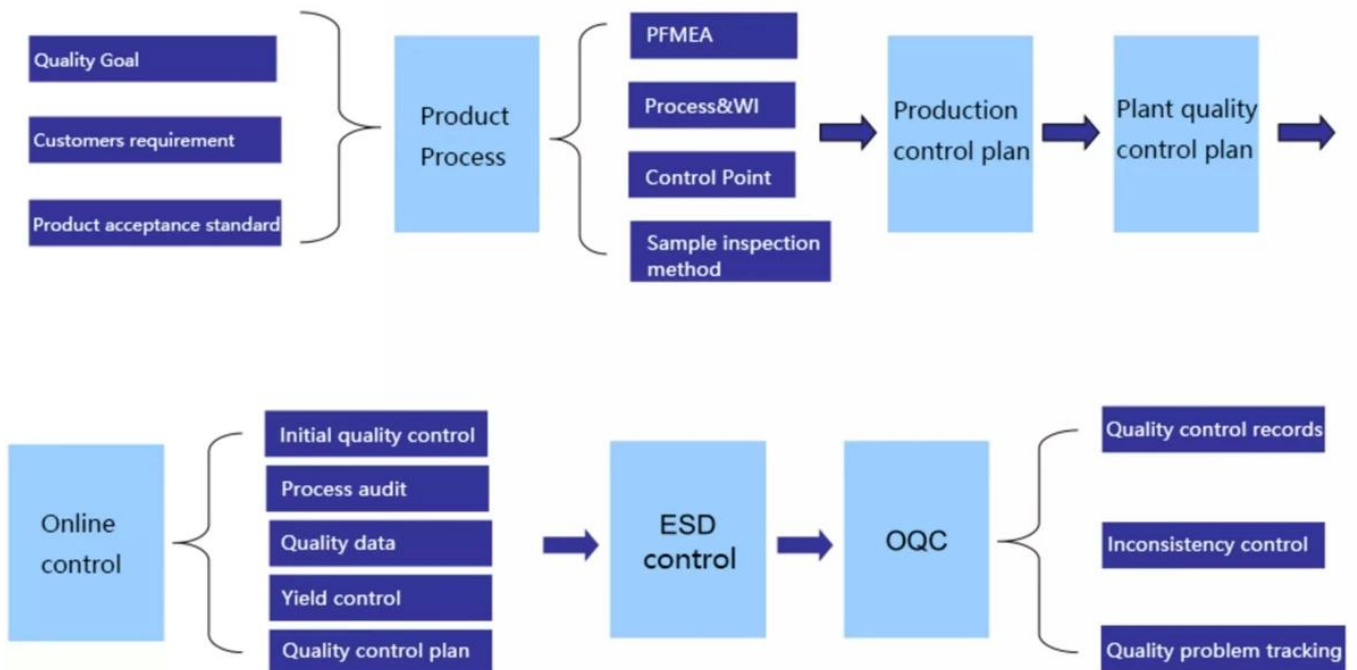
KOHYOUNG solder pasteig check SPI Figure 3 d imaging



Process Flow Chart



Quality Control Process



Market Share

 CONSUMER ELECTRONICS

 AUTOMOTIVE ELECTRONICS

 INDUSTRIAL CONTROL

 INTELLECTUALIZED HOUSEHOLD CONTROL

 OTHER



30%
CONSUMER ELECTRONICS



18%
INTELLECTUALIZED HOUSEHOLD CONTROL

20%
AUTOMOTIVE ELECTRONICS



12%
OTHER



20%
INDUSTRIAL CONTROL



Factory PCB



Automatic vacuum press machine



Drilling Machine



Pattern Plating Machine



Scrubbing Machine



Developing Machine



Routing Machine



High-speed flying probe machine



E-test Machine

Factory SMT





CICC INSPECTION CERTIFICATION

CICC CERTIFICATION
嘉泰认证

QUALITY MANAGEMENT SYSTEM CERTIFICATE
Certificate No: 18118Q10347R05

We hereby certify that
O-LEADING SUPPLY CHAIN(HK) CO.,LIMITED
Credit No: 61691591-000-07-18-7
Registration Add: FLAT/RM 1205 12/F TAI SANG BANK BUILDING 130-132 DES
VDEUS BOAD CENTRAL HK
Business Add: 1313, Floor 13, Fortune Building, Danshui Town, Huiyang
District, Huizhou, Guangdong, China

Has implemented and maintains a **Quality Management System**
Which fulfills the requirements of the following standards
GB/T19001-2016 idt ISO9001:2015

Scope of certification
Sales of printed circuit boards

Initial issuance period: February 27, 2018
Renewal date: April 22, 2019
This certificate is valid during: April 22, 2019 – February 26, 2021
This certificate is invalid without CICC qualified label in the following period

| | | | |
|-----------------------------|---|------------------------------|----------------|
| First supervision and audit |  | Second supervision and audit | Qualified mark |
|-----------------------------|---|------------------------------|----------------|

The certification requirements under clause 1 include those production stages which shall be covered by the relevant effective administrative procedures and specifications prescribed by the client. The effectiveness of this certificate shall be subject to annual surveillance audit of CICC. The certificate shall be valid when used together with the special label under label.

The initial issuance of this certificate can be renewed on the period of CICC www.cicc.com.cn or by the date of expiry www.cicc.com.cn

CICC IAF CNAS
CICC CERTIFICATION IAF MANAGEMENT SYSTEMS CERTIFICATION CNAS C1914



CICC INSPECTION CERTIFICATION

CICC CERTIFICATION
嘉泰认证

质量管理体系认证证书
证书号: 18118Q10347R05

兹证明
诚领供应链(香港)有限公司
统一社会信用代码: 61691591-000-07-18-7
注册地址: 香港中環德輔道中 130-132 號火生銀行大廈 1205 室
经营地址: 广东惠州惠阳淡水南亨西路财富大厦 13 楼 1313

建立的质量管理体系符合
GB/T19001-2016 idt ISO9001:2015 质量标准适用条款的要求


认证范围
印刷线路板的销售

初次发证日期: 2018年02月27日
换证日期: 2019年04月22日
证书有效期: 自2019年04月22日至2021年02月26日
在下列期限内, 未经CICC黏贴合格标贴, 本证书无效

| | | | |
|-------|---|-------|-----|
| 第一次监审 |  | 第二次监审 | 贴标处 |
|-------|---|-------|-----|

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CICC IAF CNAS
CICC CERTIFICATION IAF MANAGEMENT SYSTEMS CERTIFICATION CNAS C1914





Test Report

No. SZXEC1900530401 Date: 30 Mar 2019 Page 1 of 6

O-LEADING SUPPLY CHAIN (HK) CO., LIMITED

1313.FLOOR 13, FORTUNE BUILDING, DANSHUI TOWN, HUIYANG DISTRICT, HUIZHOU, GUANGDONG, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : OSP

SGS Job No. : RP19-005089 - SZ
Date of Sample Received : 22 Mar 2019
Testing Period : 22 Mar 2019 - 30 Mar 2019
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina
Tina Fan
Approved Signatory



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Test Report

No. SZXEC1900530401 Date: 30 Mar 2019 Page 2 of 6

Test Results :

Test Part Description :

Table with 3 columns: Specimen No., SGS Sample ID, Description. Row 1: SN1, SZX19-005304.001, Green"PCB"

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Table with 5 columns: Test Item(s), Limit, Unit, MDL, QZT. Lists various heavy metals and brominated compounds with their respective limits and units.



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ZPMV2.E490354 - WIRING, PRINTED - COMPONENT

Wiring, Printed - Component

See General Information for Wiring, Printed - Component

O-LEADING SUPPLY CHAIN (HK) CO LTD

E490354

ROOM 1205, 12/F
TAI SANG BANK BLDG
130-132 DES VOEUS ROAD
CENTRAL, HONG KONG

| Type | Cond Width | | Cond Thk | SS/ DS/ DSO | Max | Max | | Meets | C | | | |
|--|---------------|---------------|----------------------|-------------|------------|--------|------|-------|-------|-------|-----|---|
| | Min | Edge | | | Area | Solder | Oper | | | Flame | | |
| | mm(in) | mm(in) | mic(mil) | | mm(in) | C | sec | C | Class | UL796 | DSR | I |
| Multilayer (mass laminate) printed wiring boards. | | | | | | | | | | | | |
| O-LEADING-401 | 0.1 (0.004) | 0.3 (0.012) | 34 (1.34) | DS | 12.7 (0.5) | 260 | 10 | 130 | V-0 | - | - | |
| O-LEADING-407 | 0.08 (0.003) | 0.2 (0.008) | 17 (0.67) | DS | 9.7 (0.4) | 260 | 10 | 130 | V-0 | All | - | |
| Multilayer printed wiring boards. | | | | | | | | | | | | |
| O-LEADING-408 | 0.125 (0.005) | 0.125 (0.005) | 12 (0.47) Int:136 | DS | 50.8 (2.0) | 280 | 20 | 130 | V-0 | All | * | |
| Single layer printed wiring boards. | | | | | | | | | | | | |
| O-LEADING-002 | 0.38 (0.015) | 1.14 (0.045) | 34 (1.34) | SS | 19.1 (0.8) | 260 | 10 | 105 | V-0 | All | - | |
| O-LEADING-003 | 0.38 (0.015) | 1.14 (0.045) | 34 (1.34) | SS | 19.1 (0.8) | 260 | 10 | 130 | V-0 | ▲ | - | |
| O-LEADING-033 | 0.15 (0.006) | 0.3 (0.012) | 34 (1.34) | SS | 25.4 (1.0) | 260 | 10 | 120 | V-0 | All | - | |
| O-LEADING-205 | 0.1 (0.004) | 0.3 (0.012) | 34 (1.34) | DS | 69.6 (2.7) | 260 | 10 | 130 | V-0 | All | - | |
| O-LEADING-206 | 0.15 (0.006) | 0.33 (0.013) | 17 (0.67) | DS | 69.6 (2.7) | 260 | 10 | 130 | V-0 | All | - | |
| O-LEADING-D01 | 0.14 (0.006) | 0.15 (0.006) | 33 (1.30) | DS | 25.4 (1.0) | 260 | 10 | 130 | V-0 | All | * | |
| O-LEADING-S01 | 0.25 (0.010) | 0.25 (0.010) | 17 (0.67) | SS | 25.4 (1.0) | 260 | 4 | 130 | V-0 | All | * | |

WIRING, PRINTED - COMPONENT | UL Product iQ

| | | | | | | | | | | | | |
|----------------------|--------------|--------------|-----------|----|------------|-----|---|-----|-----|-----|---|--|
| O-LEADING-S02 | 0.2 (0.008) | 0.2 (0.008) | 17 (0.67) | SS | 25.4 (1.0) | 260 | 4 | 130 | HB | ▲ | * | |
| O-LEADING-S03 | 0.25 (0.010) | 0.25 (0.010) | 34 (1.34) | SS | 25.4 (1.0) | 260 | 4 | 130 | V-0 | All | * | |

* - CTI marking is optional and may be marked on the printed wiring board.

Marking: Company name or file number and type designation. May be followed by a suffix to denote factory identification or burning test classification.

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| | |
|----------------------|--|
| PCB | |
| Layer Count | 1-32 |
| Weight | 1 / 3oz-12oz |
| Thickness | 3.0mil / 3.0mil |
| Thickness | 4.0mil / 4.0mil |
| Min. Drill | 10mil |
| Min. Drill | 0.2mm-5.0mm |
| Max. Panel Size | 635 * 1500mm |
| Min. Drill | 4mil |
| Plated | +/- 3mil |
| Blind / Through Hole | Yes |
| Min. Drill | Yes |
| Material | FR-4 / FR-4high Tg |
| Surface Finish | HASL / OSP / ENIG / HAL-LF / Immersion |

SMT

| | |
|----------------|----------------------|
| PCB Material | FR-4 / CEM-1 / CEM-3 |
| PCB Size | 510x460mm |
| PCB Size | 50x50mm |
| PCB Thickness | 0.5mm-4.5mm |
| Min. Drill | 0.5 / 4mm |
| Min. Drill | 0201 |
| Min. Drill | 0603 |
| Min. Drill | 15mm |
| Min. Drill | 0.3mm |
| Min. Drill BGA | 0.4mm |
| Min. Drill | +/- 0.03mm |



Shipping service



| Quick Turn Lead Time | | |
|----------------------|----------|---------------------|
| Layer Count: | Lead Tim | Special Requirement |
| 1L/2L | 2-3days | 24 Hours,48 Hours |
| 4L | 3-4days | 48 Hours |
| 6L | 4-5days | 72 Hours |
| 8L | 5-6days | NA |
| 10L | 6-7days | NA |
| 12L | 7-8days | NA |
| 14L | 8-9days | NA |

| Standard Lead Time | | |
|--------------------|------------------|------------------------|
| Layer Count: | Sample Lead Time | Volume order lead time |
| 2L | 4 days | 10 days |
| 4L | 5 days | 11 days |
| 6L | 6 days | 12 days |
| 8L | 8 days | 14 days |
| 10L | 10 days | 16 days |
| 12L | 12 days | 18 days |
| 14L | 14 days | 20 days |
| 16-32L | 18 days | 24 days |



1. O-Leading

- 1.1 ISO 9001:2008
- 1.2
- 1.3 X-ray AOI ICT
- 1.4
- 1.5

2. O-Leading

10 2 3 4 31 O-Leading

3. O-Leading

FR4 TG Rogers Arlon Telfon PI

4. PCB PCBA

- 4.1 BOM
- 4.2 PCB
- 4.3 PCB PCBA
- 4.4
- 4.5

5. PCB
→ → → AOI → → → PTH → → → → → AOI → → → → E / T →

6. HDI
VCP LDI
LDI

7. O-lead
ENIG OSP LF-HASL / HDI
OSP ENIG OSP + ENIG BGAPAD 0.3mm OSP OSP + ENIG

8. FPC O-Leading SMT
O-Leading 8 FPC 2000mm * 240mm
SMT

- 9. PCB
- ;
- ;
- ;
- ;
- PCB;
- ;
- ;

10. PCB PWB FPC
PCB
PWB
FPC Flexible Printed Board

11. PCB
PCB
Tg
CTE
PCB 50 250°C
PCB / PCB

12. O-leading rigid-flex PCB
O-leading PCB FPC PCB

13.
SI6000 POLAR INSTRUMENTS CITS500s