

# O-leading

O-Leading PCB PCB PCB PCB EMS HDI  
 PCB PCB PCB PCB PCB PCB **PCB LED**  
**PCB**

O

O-leading PCB PCBA

**5730 LED PCB**

## O-LEADING

To Be Reliable, To Be Valuable

WE ALWAYS PROVIDE YOU

BEST HIGH DENSITY INTERCONNECT PCB

## O-LEADING

To Be Reliable, To Be Valuable

WE ALWAYS PROVIDE YOU

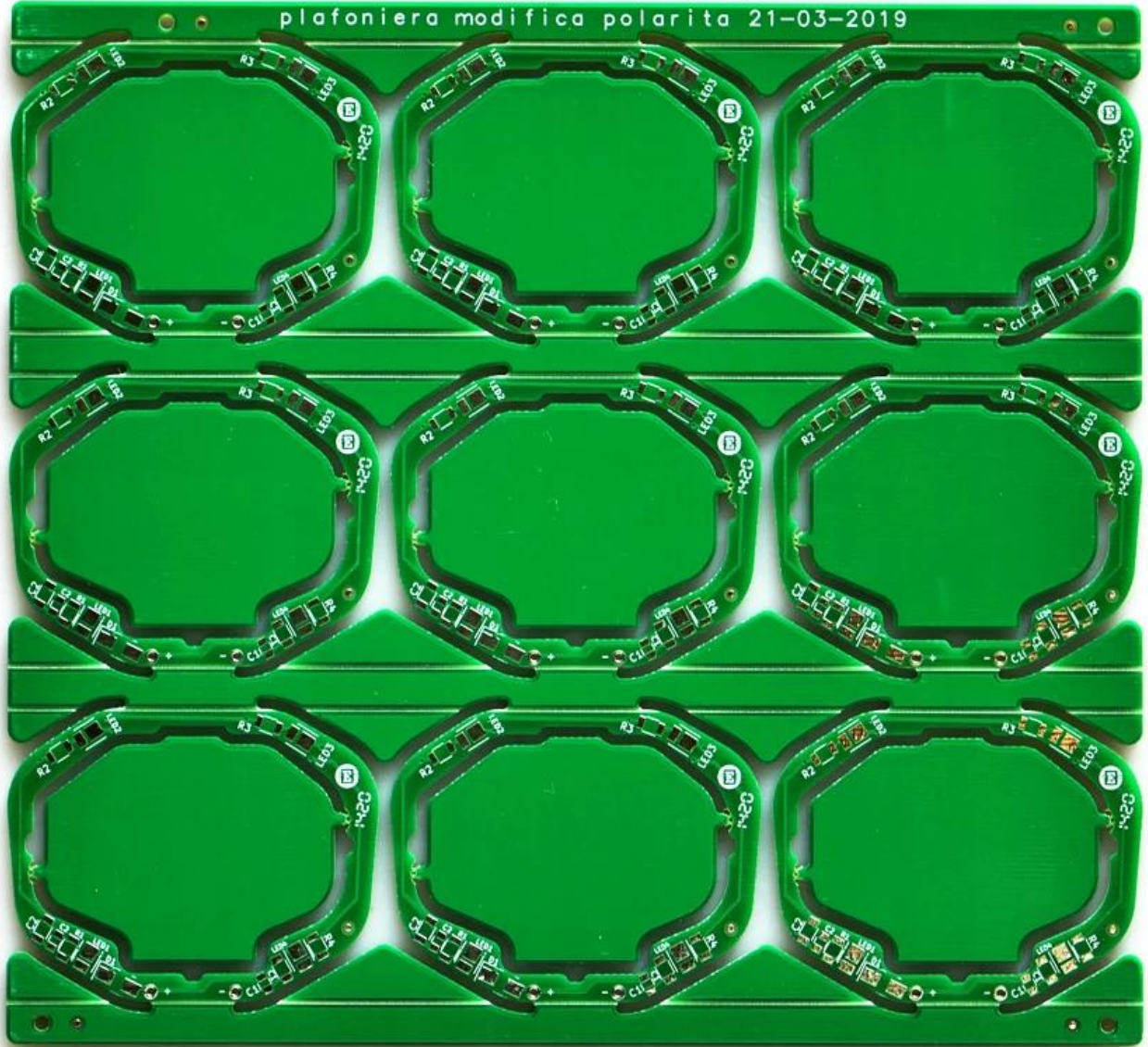
BEST RIGID-FLEXIBLE CIRCUIT

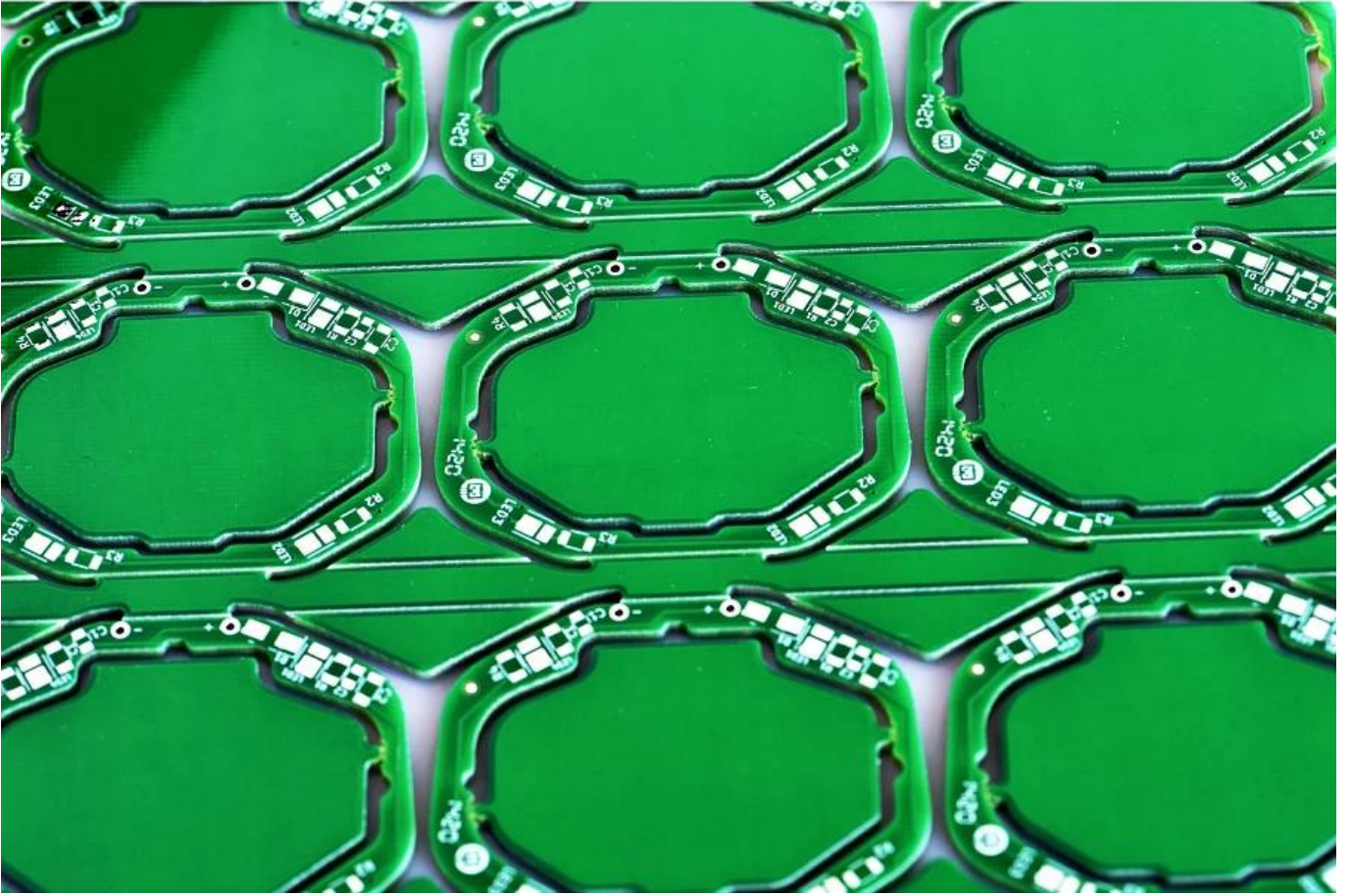
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**O-LEADING**  
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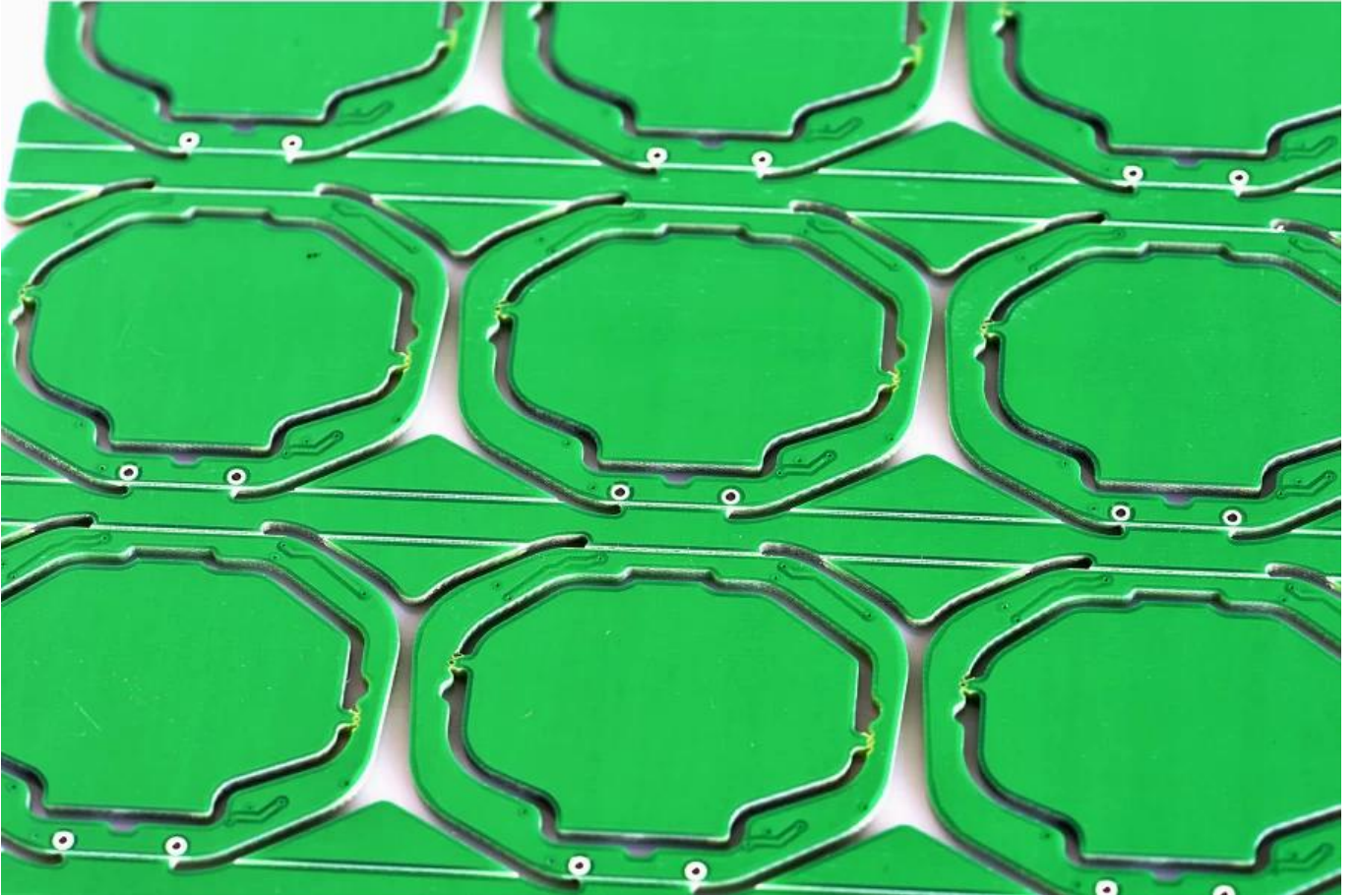
**QUALITY IS OUR CULTURE**







**O-LEADING**  
To Be Reliable, To Be Valuable



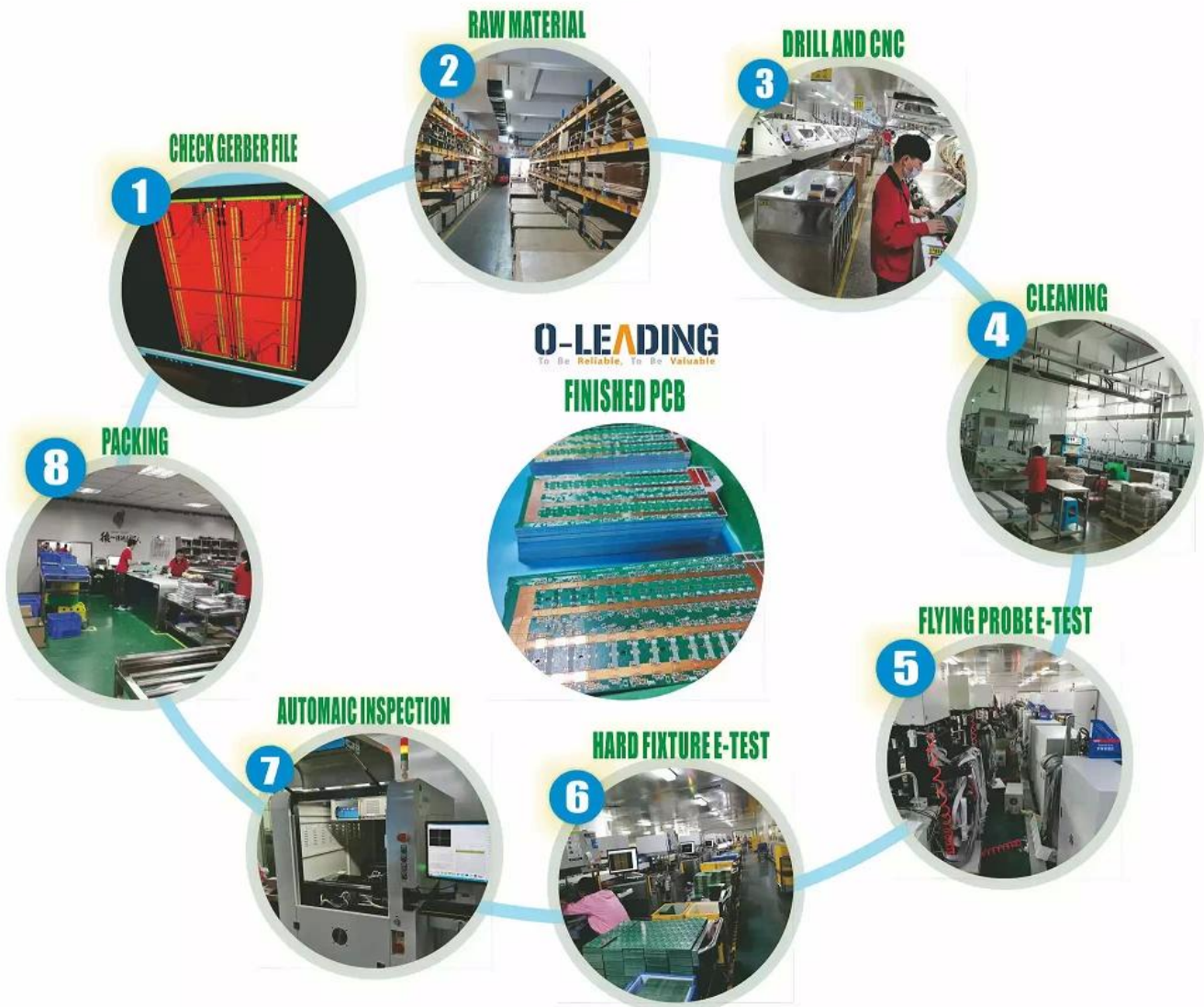
**O-LEADING**  
To Be Reliable, To Be Valuable





# Production Process

18 years experience in one-stop PCB and PCBA, we can make your idea come true,



 CONSUMER ELECTRONICS

 AUTOMOTIVE ELECTRONICS

 INDUSTRIAL CONTROL

 INTELLECTUALIZED HOUSEHOLD CONTROL

 OTHER



**30%**  
CONSUMER ELECTRONICS



**18%**  
INTELLECTUALIZED HOUSEHOLD CONTROL

**20%**  
AUTOMOTIVE ELECTRONICS



**12%**  
OTHER

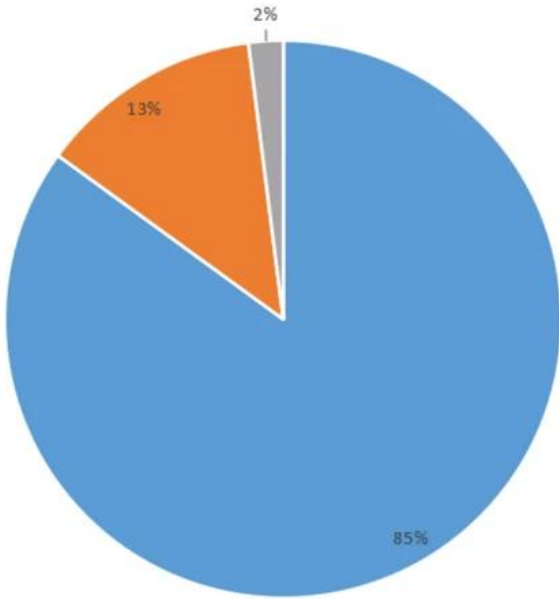


**20%**  
INDUSTRIAL CONTROL





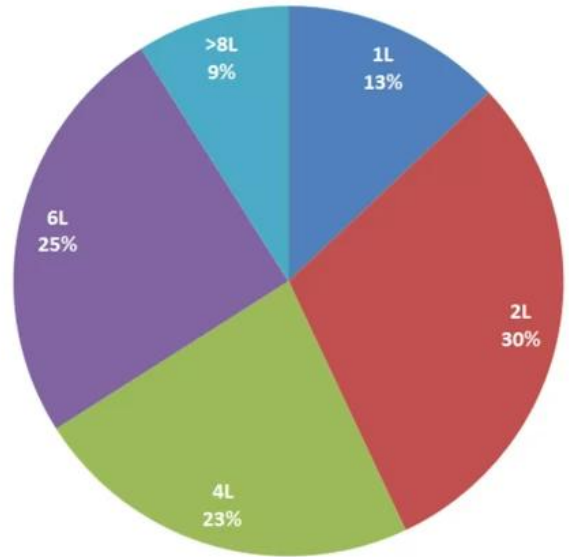
## Product types



■ FR-4 PCB ■ MC PCB ■ rigid-flexible PCB

## Product layers

■ 1L ■ 2L ■ 4L ■ 6L ■ >8L





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Factory PCB

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Automatic vacuum press machine



Drilling Machine



Pattern Plating Machine



Scrubbing Machine



Developing Machine



Routing Machine



High-speed flying probe machine



E-test Machine

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Factory SMT

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CICC INSPECTION 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 VOEUS ROAD CENTRAL HK

Business Add: 1213, 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 certificate registration fee does not include those production stages which fail to be covered by the relevant effective administrative procedures and qualification procedures stipulated by the state. The effectiveness of this certificate shall be restricted to those activities which are covered by the certificate. The actual information of this certificate can be searched on the internet of CICC www.cicc.com.cn. For the sake of clarity see also the note.






CICC INSPECTION 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號大生銀行大廈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

初次获证日期: 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

|       |       |     |
|-------|-------|-----|
| 第一次复审 | 第二次复审 | 黏贴处 |
|-------|-------|-----|

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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, 0/1. Lists various substances like Cadmium, Lead, Mercury, Hexavalent Chromium, Sum of PBBs, etc. with their respective limits and detection results.



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

E490354

| 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 |
| <b>Multilayer (mass laminate) printed wiring boards.</b> |               |               |                      |             |            |        |      |       |       |       |     |   |
| 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   | -   |   |
| <b>Multilayer printed wiring boards.</b>                 |               |               |                      |             |            |        |      |       |       |       |     |   |
| O-LEADING-408  | 0.125 (0.005) | 0.125 (0.005) | 12 (0.47)<br>Int:136 | DS          | 50.8 (2.0) | 280    | 20   | 130   | V-0   | All   | *   |   |
| <b>Single layer printed wiring boards.</b>               |               |               |                      |             |            |        |      |       |       |       |     |   |
| 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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|                     |                      |
|---------------------|----------------------|
| <b>PCB</b>          |                      |
| Layer               | 1Layer-32Layer       |
| Weight              | 1 / 3oz-12oz         |
| Core/Prepreg        | 3.0mil / 3.0mil      |
| Core/Prepreg        | 4.0mil / 4.0mil      |
| Drill               | 10µ1                 |
| Drill               | 0.2mm-5.0mm          |
| Panel Size          | 635 * 1500mm         |
| Plating             | 4mil                 |
| Plated              | +/- 3mil             |
| Blind / Buried Vias | All                  |
| Via Fill            |                      |
| Material            | FR-4 FR-4high Tg     |
| Surface Finish      | HASL OSP ENIG HAL-LF |

|               |                  |
|---------------|------------------|
| <b>SMT</b>    |                  |
| PCB           | FR-4 CEM-1 CEM-3 |
| PCB Size      | 510x460mm        |
| PCB Size      | 50x50mm          |
| PCB Thickness | 0.5mm-4.5mm      |
| Drill         | 0.5-4mm          |
| Panel Size    | 0201             |
| Panel Size    | 0603             |
| Panel Size    | 15mm             |
| Panel Size    | 0.3mm            |
| BGA           | 0.4mm            |
| Panel Size    | +/- 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**

- 1.1
- 1.2
- 1.3
- 1.4
- 1.5

**2. O-Leading**

10 2 3 4 31 O-Leading

**3. O-Leading**

FR4 TG PI

**4. PCB PCBA**

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

**5. PCB**

→ → → AOI → → → PTH → → → → → → → → → → E / T →

**6. HDI**

VCP LDI LDI

**7. O-**

O- ENIG OSP LF-HASL / OSI ENIG OSP + ENIG HDI BGAPAD 0.3 mm OSP OSP + ENIG

**8. FPC O-Leading SMT**

O-Leading FPC 1 8 2000mm \* 240mm SMT

**9. PCB**

- ;
- ;
- ;
- ;
- PCB;
- ;
- ;

**10. PCB PWB FPC**

PCB PWB Printed Wire Board FPC

**11. PCB**

PCB Tg CTE PCB 250°C 50 PCB

**12. O-leading PCB**

O-leading PCB FPC PCB

**13.**

POLAR INSTRUMENTS SI6000 soft CITS 500s

