

# Vítejte na O-leaderu

Společnost O-Leading se snaží být vaším partnerem pro řešení na jednom místě v dodavatelském řetězci EMS, včetně návrhu PCB, výroby PCB a montáže PCB (PCBA). Poskytujeme některé z nejpokročilejších technologií PCB, včetně HDI PCB, vícevrstvých PCB, pevných PCB . Můžeme podporovat od rychlého otočení prototypu po střední a hromadnou výrobu. ([vícevrstvý výrobce desek plošných spojů v Číně](#))

Naši globální zákazníci jsou obecně našimi službami velmi ohromeni: rychlá odezva, konkurenceschopná cena a závazek kvality. Poskytování cennějších technických služeb a celkového řešení je cesta vedoucí k O.

Při pohledu do budoucnosti se O-leader soustředí na inovace a vývoj technologie výroby elektroniky jako vždy a vytrvale usiluje o jednorázovou službu PCB a PCBA s cílem poskytovat prvotřídní služby a vytvářet větší hodnotu pro naše zákazníky.

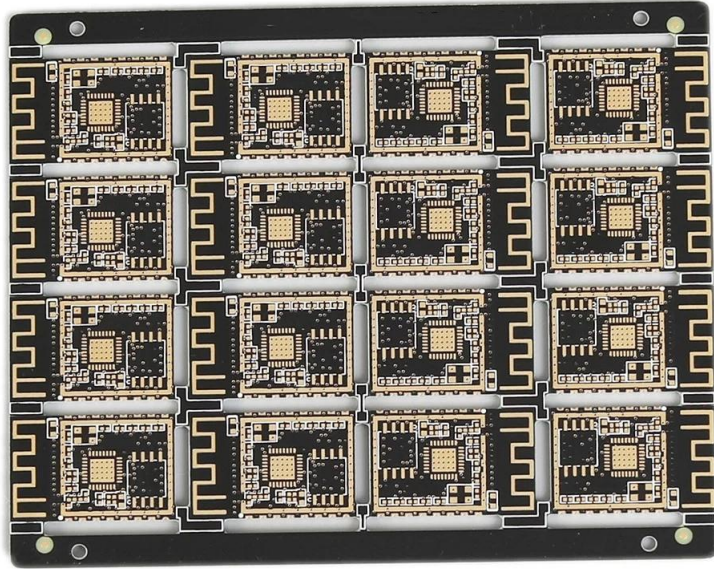
Jsme profesionální výrobce desek plošných spojů s více než desetiletými zkušenostmi. Produkty řady - jednostranné, oboustranné, vícevrstvé PCB, flexibilní PCB a MCPCB. Můžeme poskytnout rychlý prototypový servis - S / S za 24 hodin, 4-8 hráčů za 48-96 pracovních hodin výroby.

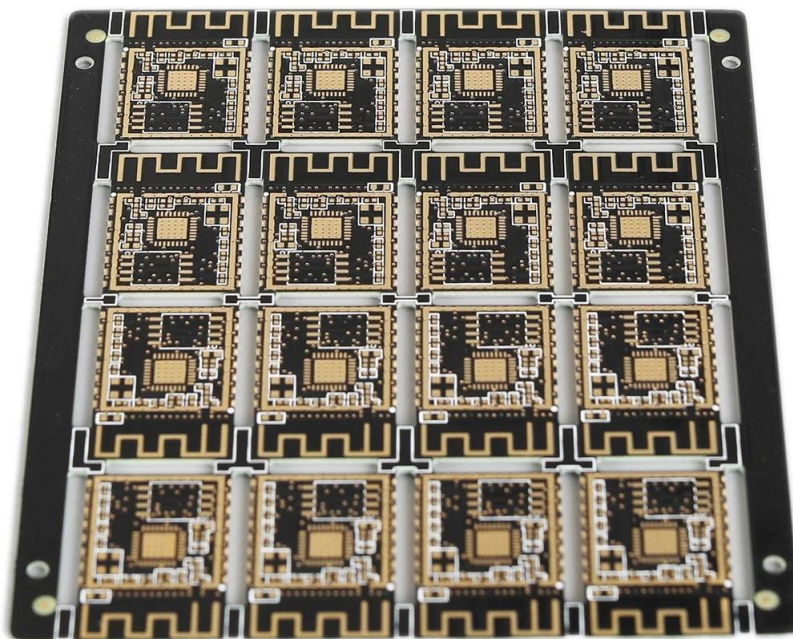
MINERÁLNÍ DÁVKA KOPÍROVACÍHO MINI .025 AVG, 0,0 MIN MIN. DÁVKY NEMŮŽE BÝT PLNĚNY, [Vícevrstvý výrobce desek plošných spojů Čína](#)

Balení s bezbarvým průhledným bublinovým filmem, 25 ks / sáček, do boku dejte vysoušeč, na horní stranu vložte kartu s indikátorem vlhkosti

## Popis výrobku

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| PCB P / N                        | Bchybí pájecí maska pcb s polovičním otvorem  |
| Počet vrstev                     | 4L                                            |
| Materiál                         | FR-4 TG170                                    |
| Board thk                        | 1,6 mm                                        |
| měď thk                          | 1/1/1 / 1oz                                   |
| Nejmenší otvor                   | 0,3 mm                                        |
| Počet otvorů (ks)                | 98                                            |
| řádek w / s                      | 5/5 mil                                       |
| Kontrola impedance. Y / N (Tol%) | N                                             |
| Povrchová úprava                 | ENIG Au: 0,05-0,10UM                          |
| Pájecí maska Silkscreen          | Černá bílá                                    |
| Velikost jedné desky             | Dim X (mm): 21; Dim Y (mm): 12                |
| Panelizace                       | Dim X (mm): 90; Dim Y (mm): 68; Počet UPS: 16 |
| Speciální: odlupovací maska      | N                                             |
| Směrování / děrování             | CNC                                           |





[www.o-leading.com](http://www.o-leading.com)

Náš tým



## 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



# Certifikace

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: 1313, Floor 13, Fortune Building, Danshui Town, Huiyang District, Huizhou, Guangdong, China

Has implemented and maintains a **Quality Management System** Which fulfils 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 registration fee does not include those production stages which fail to be covered by the relevant effective administrative procedures and qualification procedures required by the state. The effectiveness of this certificate shall be replaced by annual surveillance audit of CICC the certificate shall be valid also and together with the surveillance audit certificate.

The initial issuance of this certificate can be searched on the portal of CICC [www.cicc.gov.cn](http://www.cicc.gov.cn) by the date of issuance [www.cicc.gov.cn](http://www.cicc.gov.cn).






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跟踪合格标志, 本证书无效

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

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## Test Report

No. SZXEC1900530401

Date: 30 Mar 2019

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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 Fan  
Approved Signatory



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## Test Report

No. SZXEC1900530401

Date: 30 Mar 2019

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Test Results :

### Test Part Description :

| Specimen No. | SGS Sample ID    | Description |
|--------------|------------------|-------------|
| 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.

| Test item(s)                 | Limit | Unit  | MDL | Q/Z |
|------------------------------|-------|-------|-----|-----|
| Cadmium (Cd)                 | 100   | mg/kg | 2   | ND  |
| Lead (Pb)                    | 1,000 | mg/kg | 2   | 8   |
| Mercury (Hg)                 | 1,000 | mg/kg | 2   | ND  |
| Hexavalent Chromium (Cr(VI)) | 1,000 | mg/kg | 8   | ND  |
| Sum of PBBs                  | 1,000 | mg/kg | -   | ND  |
| Monobromobiphenyl            | -     | mg/kg | 5   | ND  |
| Dibromobiphenyl              | -     | mg/kg | 5   | ND  |
| Tribromobiphenyl             | -     | mg/kg | 5   | ND  |
| Tetrabromobiphenyl           | -     | mg/kg | 5   | ND  |
| Pentabromobiphenyl           | -     | mg/kg | 5   | ND  |
| Hexabromobiphenyl            | -     | mg/kg | 5   | ND  |
| Heptabromobiphenyl           | -     | mg/kg | 5   | ND  |
| Octabromobiphenyl            | -     | mg/kg | 5   | ND  |
| Nonabromobiphenyl            | -     | mg/kg | 5   | ND  |
| Decabromobiphenyl            | -     | mg/kg | 5   | ND  |
| Sum of PBDEs                 | 1,000 | mg/kg | -   | ND  |
| Monobromodiphenyl ether      | -     | mg/kg | 5   | ND  |
| Dibromodiphenyl ether        | -     | mg/kg | 5   | ND  |
| Tribromodiphenyl ether       | -     | mg/kg | 5   | ND  |
| Tetrabromodiphenyl ether     | -     | mg/kg | 5   | ND  |
| Pentabromodiphenyl ether     | -     | mg/kg | 5   | ND  |



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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<br>Thk<br>mic(mil) | SS/<br>DS/<br>DSO | Max        |        | Max  |       | Meets |     | C |
|---------------------------------------------------|---------------|---------------|-------------------------|-------------------|------------|--------|------|-------|-------|-----|---|
|                                                   | Min           | Min           |                         |                   | Area       | Solder | Oper | Flame | UL796 |     |   |
|                                                   | mm(in)        | mm(in)        |                         |                   | Diam       | Limits | Temp | Class | DSR   |     |   |
| 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)<br>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

|                      |              |              |           |    |            |     |   |     |     |     |   |
|----------------------|--------------|--------------|-----------|----|------------|-----|---|-----|-----|-----|---|
| <b>O-LEADING-S02</b> | 0.2 (0.008)  | 0.2 (0.008)  | 17 (0.67) | SS | 25.4 (1.0) | 260 | 4 | 130 | HB  | ▲   | * |
| <b>O-LEADING-S03</b> | 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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## 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                |

## Schopnost procesu

### Schopnosti výroby PCB

Počet vrstev: 1Layer-32Layer

Konečná tloušťka mědi □ 1 / 3oz-12oz

Min Šířka / mezera interní internal 3,0 mil / 3,0 mil

Min Šířka / rozteč linek externí: 4,0 mil / 4,0 mil

Maximální poměr stran: 10: 1

Tloušťka desky □ 0,2 mm - 5,0 mm

Maximální velikost panelu (palce): 635 x 1500 mm

Minimální velikost vrtané díry: 4 mil

Tolerance plated Hole: +/- 3mil

Blind / Buried Vias (typy AII): ANO

Prostřednictvím výplně (vodivé, nevodivé): ANO

Základní materiál: FR-4, FR-4high Tg.Halogenový materiál, Rogers, Hliníková základna,Polyimid,

Těžká měď

Povrchové úpravy: HASL, OSP, ENIG, HAL-LF, Immersion silver,Immersion Cín, Zlaté prsty, Uhlíkový inkoust

### Výrobní schopnosti SMT

Materiál DPS: FR-4, CEM-1, CEM-3, deska na bázi hliníku

Maximální velikost DPS: 510 x 460 mm

Minimální velikost DPS □ 50x50 mm

Tloušťka DPS □ 0,5 mm - 4,5 mm

Tloušťka desky □ 0,5-4 mm

Minimální velikost komponent: 0201

Standardní součást velikosti čipu: 0603 a větší

Maximální výška komponenty □ 15 mm

Min. Stoupání olova: 0,3 mm

Min. Rozteč kuliček BGA: 0,4 mm

Přesnost umístění: +/- 0,03 mm