

# 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.

Naši globální zákazníci jsou obecně našimi službami velmi ohromeni: rychlá odezva, konkurenceschopná cena a závazek v oblasti 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.

## Popis výrobku

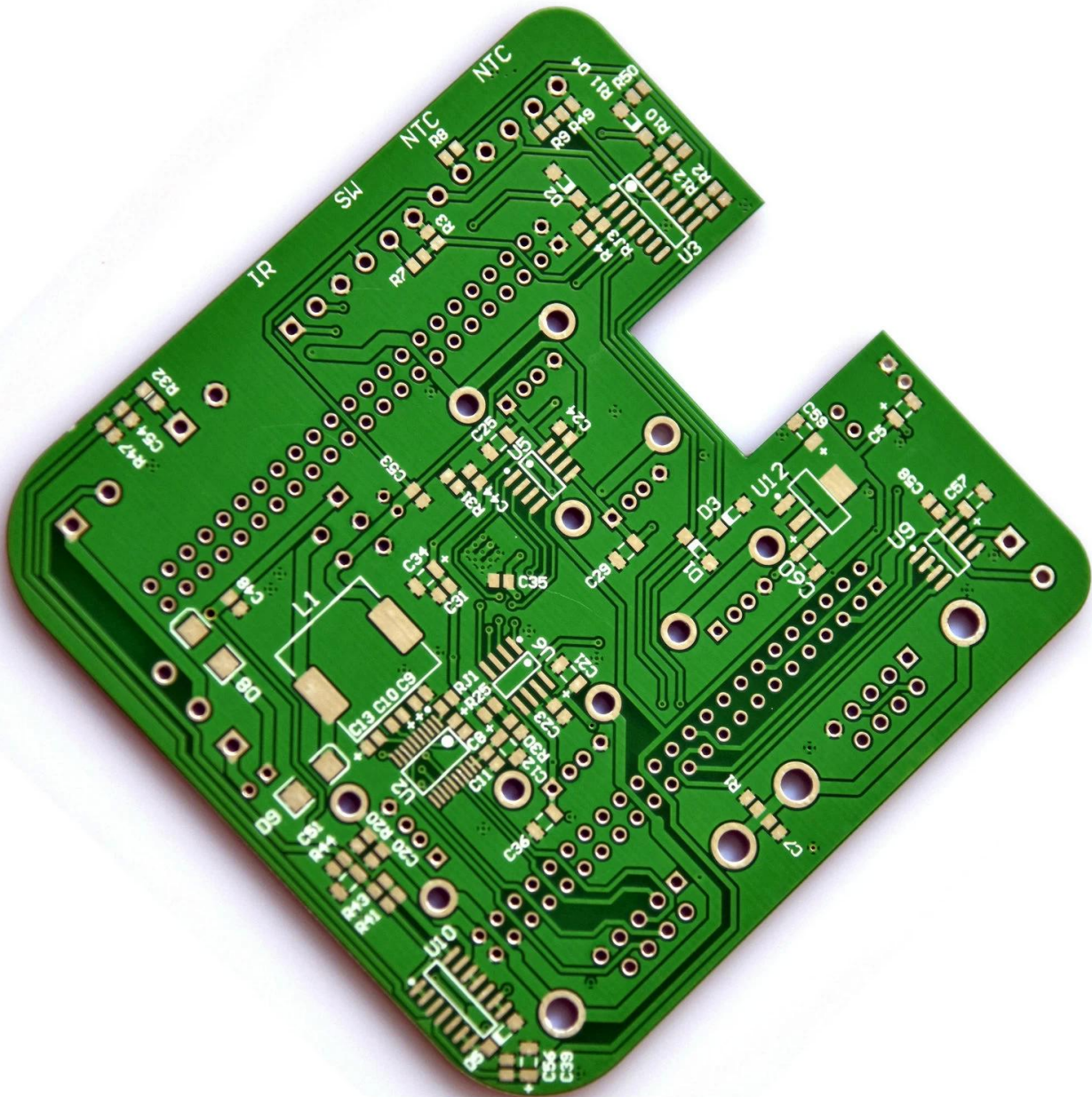
|                      |   |                 |                         |
|----------------------|---|-----------------|-------------------------|
| Místo původu         | Guang dong, Čína (pevnina)                | Jméno značky    | O-vedoucí               |
| Základní materiál    | FR-4, Hliník                              | Tloušťka mědi   | 0,5oz-5oz               |
| Min. Velikost otvoru | 0,2 mm                                    | Min. Šířka čáry | 0,2 mm                  |
| Povrchová úprava     | imerzní zlato, OSP, HASL bez obsahu olova | Tloušťka desky  | 0,1 - 5 mm              |
| použitelné pro       | led, mobilní telefon, klimatizace, pračky | charakter       | Průmyslová kontrola pcb |
| certifikáty          | ISO9001, UL, RoHS, SGS                    | Q / CTN         | 10PCS-100PCS            |
| hmotnost             | 0,01 kg -5 kg                             | MOQ             | 10ks                    |
| Modelové číslo       | PowerBank pcb montáž pcca výrobce         | Min. Řádkování  | 0,2 mm                  |
| barva                | modrá, červená, zelená, černá             | cena            | 0,1-10 \$               |
| tupý typ             | požadavek klienta                         | velikost        | 0,01 m3 - 10 m3         |

### 16 let profesionální výroba desek plošných spojů OEM

| položka  | 2014  |           | 2015 ~ 2016 |           | 2017 ~ 2018 |           |
|--|---|-----------|-------------|-----------|-------------|-----------|
|  | Objem                                       | Vzorek    | Objem       | Vzorek    | Objem       | Vzorek    |
| Počet vrstev                                     | 32  | 42        | 38          | 44        | 42          | 48        |
| Min. Řádek / mezera (µm)                         | 50/50                                       | 40/45     | 40/45       | 40/40     | 35/40       | 35/35     |
| Min vrtací otvor průměr (mm)                     | 0,15  | 0,10      | 0,15        | 0,10      | 0,15        | 0,10      |
| Poměr stran PTH                                  | 14: 1                                       | 16: 1     | 16: 1       | 18: 1     | 18: 1       | 20: 1     |
| N + C + N  | 4 + C + 4                                   | 5 + C + 5 | 5 + C + 5   | 6 + C + 6 | 5 + C + 5   | 6 + C + 6 |
| Jakékoli propojení vrstev                        | 5 + 2 + 5                                   | 6 + 2 + 6 | 5 + 2 + 5   | 6 + 2 + 6 | 5 + 2 + 5   | 6 + 2 + 6 |
| Plnění destiček přes                             | ANO   | -         | ANO         | -         | ANO         | -         |
| Min. tloušťka jádra (kromě mědi) (µm)            | 50  | 40        | 40          | 30        | 40          | 30        |
| Min. Průměr laserového vrtáku (µm)               | 75  | 65        | 65          | 50        | 50          | 40        |
| Via na pohřben díra / naskládána prostřednictvím | ANO   | -         | ANO         | -         | ANO         | -         |
| Materiál   | FR4, Megtron, Nelco, Rogers, těžká měď atd. |           |             |           |             |           |
| Vestavěný kondenzátor PCB                        | ANO   | -         | ANO         | -         | ANO         | -         |

Povrchový proces

Bezolovnatý HASL, ENIG, OSP, imerzní stříbro, iminzní cín,  
Bleskové zlato, Pokovování zlatým prstem, Selektivní pokovování tvrdým zlatem,  
Odlupovací pájecí maska, uhlíkový inkoust







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 VODEUS 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 certification registration number 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 actual certification scope of CICC. The certificate shall be valid when used together with the qualified label issued by CICC.

The initial issuance of this certification can be searched on the portal of CICC [www.cicc.com.cn](http://www.cicc.com.cn) by the code of inquiry [www.cicc.com.cn](http://www.cicc.com.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黏贴合格标贴, 本证书无效

|       |       |     |
|-------|-------|-----|
| 第一次监督 | 第二次监督 | 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, Monobromobiphenyl, etc.



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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)             |             | Diam       | Limits | Temp | Class | UL796 | T     |   |
| <b>Multilayer (mass laminate) printed wiring boards.</b> |               |               |                      |             |            |        |      |       |       |       |   |
| <b>O-LEADING-401</b>                                     | 0.1 (0.004)   | 0.3 (0.012)   | 34 (1.34)            | DS          | 12.7 (0.5) | 260    | 10   | 130   | V-0   | -     |   |
| <b>O-LEADING-407</b>                                     | 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>                 |               |               |                      |             |            |        |      |       |       |       |   |
| <b>O-LEADING-408</b>                                     | 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>               |               |               |                      |             |            |        |      |       |       |       |   |
| <b>O-LEADING-002</b>                                     | 0.38 (0.015)  | 1.14 (0.045)  | 34 (1.34)            | SS          | 19.1 (0.8) | 260    | 10   | 105   | V-0   | All   | - |
| <b>O-LEADING-003</b>                                     | 0.38 (0.015)  | 1.14 (0.045)  | 34 (1.34)            | SS          | 19.1 (0.8) | 260    | 10   | 130   | V-0   | ▲     | - |
| <b>O-LEADING-033</b>                                     | 0.15 (0.006)  | 0.3 (0.012)   | 34 (1.34)            | SS          | 25.4 (1.0) | 260    | 10   | 120   | V-0   | All   | - |
| <b>O-LEADING-205</b>                                     | 0.1 (0.004)   | 0.3 (0.012)   | 34 (1.34)            | DS          | 69.6 (2.7) | 260    | 10   | 130   | V-0   | All   | - |
| <b>O-LEADING-206</b>                                     | 0.15 (0.006)  | 0.33 (0.013)  | 17 (0.67)            | DS          | 69.6 (2.7) | 260    | 10   | 130   | V-0   | All   | - |
| <b>O-LEADING-D01</b>                                     | 0.14 (0.006)  | 0.15 (0.006)  | 33 (1.30)            | DS          | 25.4 (1.0) | 260    | 10   | 130   | V-0   | All   | * |
| <b>O-LEADING-S01</b>                                     | 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 All): 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