O□ □□□□

O-Leading□ PCB □□, PCB □□ □ PCB □□□□ (PCBA)□ □□□□ EMS □□□□□ □ □□ □□□ □□□□□□ □□ □□□□ □□□ HDI PCB, □□ PCB, □□-□□□ PCB□ □□□ □□□ PCB □□□ □□□□□. □□□ □□ □□ □□□ □□□□ □□ □□ □ □□ □□□□ □□□ □ □□□□. □ **FR4 □□□ □□ PCB □□ □□**□

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□□□□ O-leading□ □□ □□ □□□ □□□ □□□ □□ □□□□, □□ □□□□ □□□□ □□□□ □ □□ □□□ □□□□ □□ PCB □ PCBA □ □□ □□□□ □□ □□□ □□□ □□□□.

□□□ □□□ □□□ □□□□□□.**□□ □□ □□□ ENIG PCB □□**

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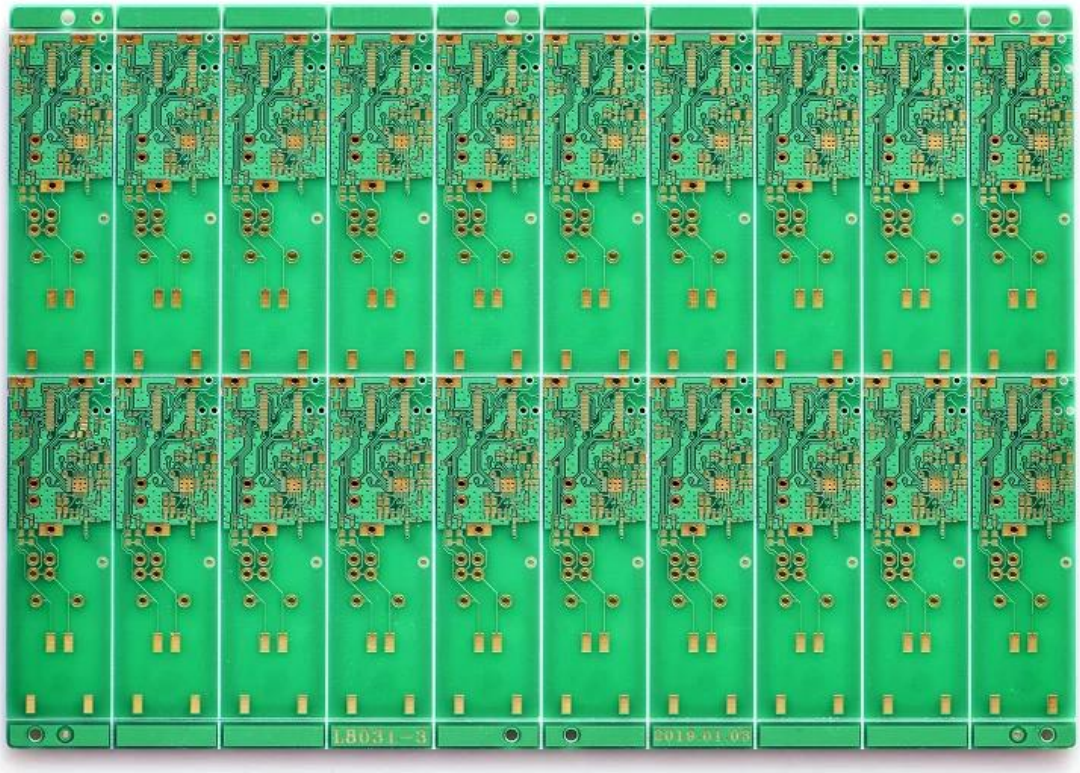
O-LEADING

To Be Reliable, To Be Valuable

QUALITY IS OUR CULTURE

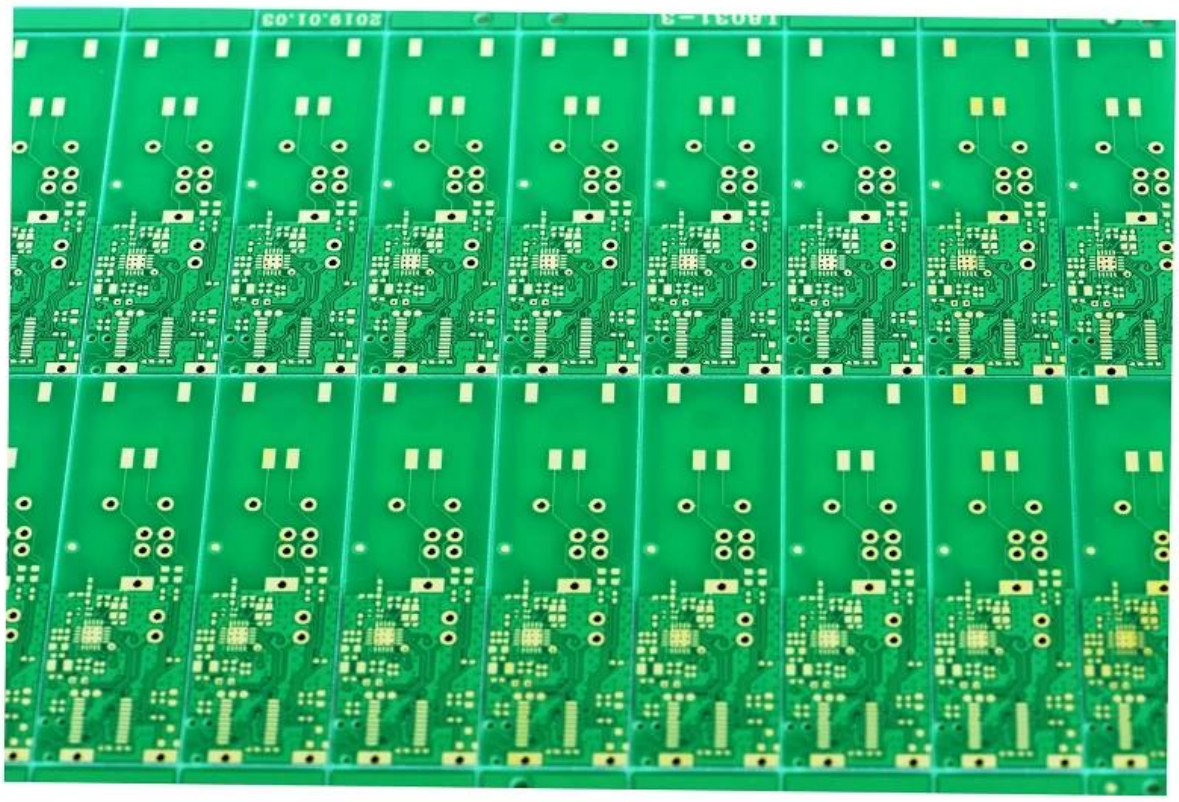
O-LEADING

To Be Reliable, To Be Valuable



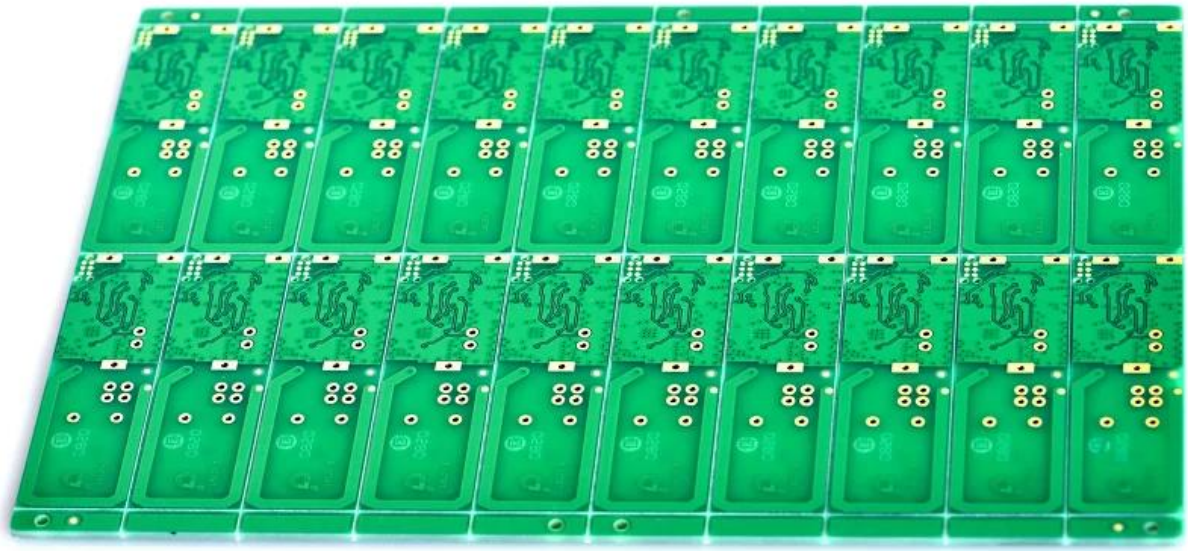
O-LEADING
To Be Reliable, To Be Valuable

O-LEADING
To Be Reliable, To Be Valuable



O-LEADING
To Be Reliable, To Be Valuable

O-LEADING
To Be Reliable, To Be Valuable

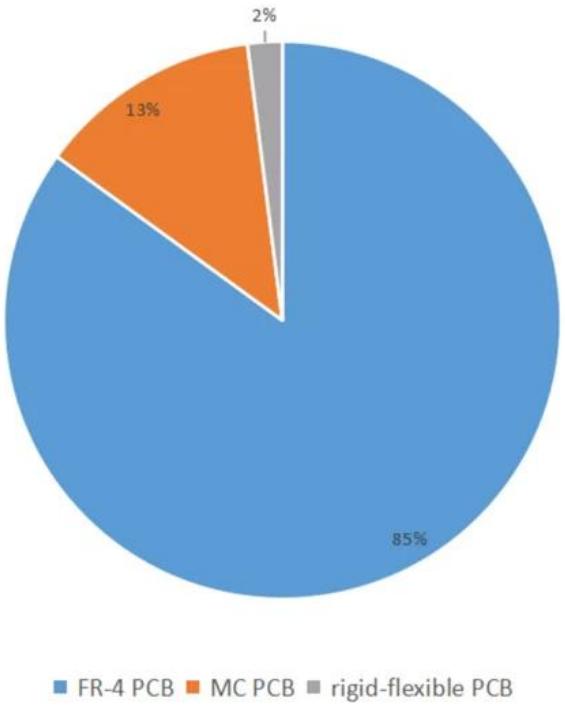


Production Process

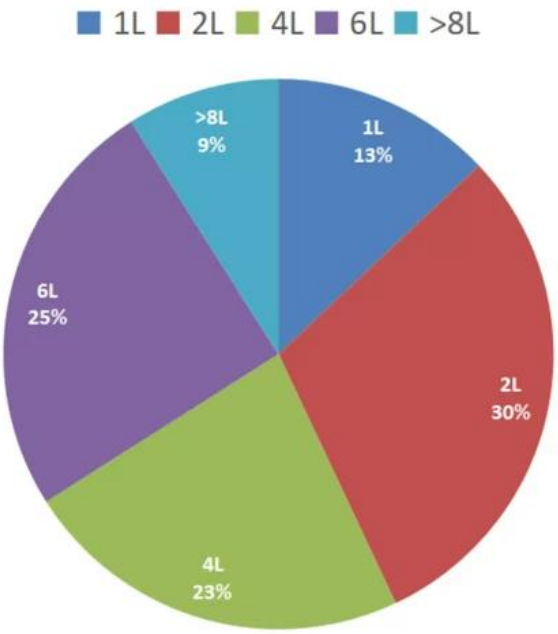
18 years experience in one-stop PCB and PCBA,we can make your idea come true,


CONSUMER ELECTRONICS
AUTOMOTIVE ELECTRONICS
INDUSTRIAL CONTROL
INTELLECTUALIZED HOUSEHOLD CONTROL
OTHER
18%
INTELLECTUALIZED HOUSEHOLD CONTROL
30%
CONSUMER ELECTRONICS
20%
AUTOMOTIVE ELECTRONICS
12%
OTHER
20%
INDUSTRIAL CONTROL

Product types



Product layers



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O-LEADING

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: 18118Q10347R0S

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

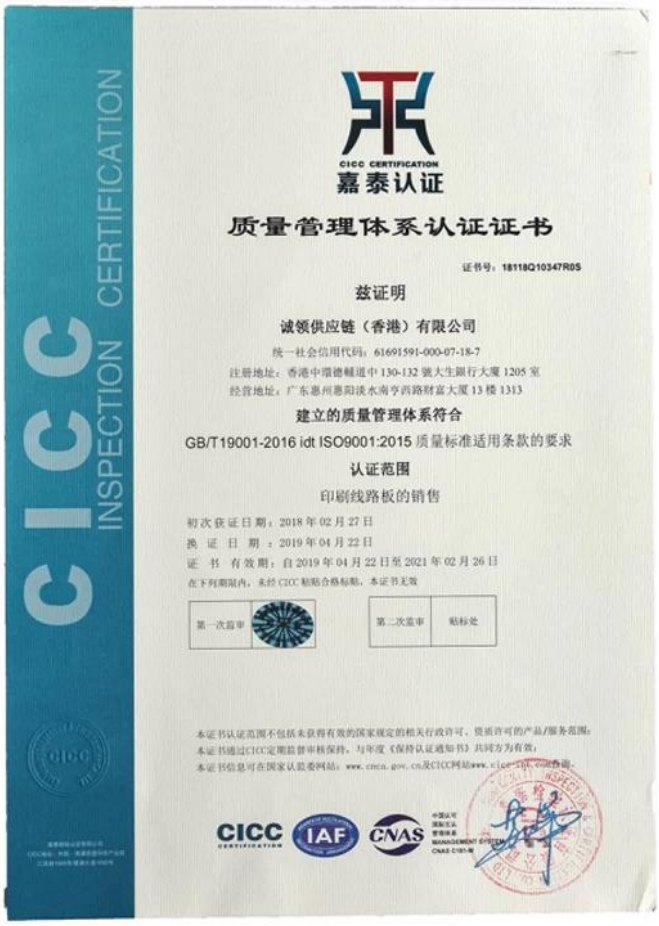
First supervision and audit		Second supervision and audit	Qualified mark

The certification registration scope doesn't include those product/service scopes which fail to be covered by the relevant effective administrative permission and qualification permission regulated by the state.

The effectiveness of this certificate shall be validated by annual surveillance audit of CICC the certificate shall be valid also need together with the surveillance audit conclusion.

The related information of this certification can be searched on the portal of CNCA www.cnca.gov.cn or by the site of company www.cicc-iaf.com.

CICC IAF CNAS



CICC INSPECTION CERTIFICATION

CICC CERTIFICATION
嘉泰认证

质量管理体系认证证书

证书号：18118Q10347R0S

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

在下列期间内，未经 CICC 贴贴合格标贴，本证书无效

第一次监审		第二次监审	贴标处

本证书认证范围不包括未获得有效的国家规定的相关行政许可、资质许可的产品/服务范围；

本证书通过CICC定期监督审核保持，与年度《保持认证通知书》共同方为有效；

本证书信息可在国家认监委网站：www.cnca.gov.cn及CICC网站www.cicc-iaf.com查询。

CICC IAF CNAS

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

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, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit	MDL	001
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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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch
SGS Bldg, No.2, Jingshan Industrial Park, No.428, Jihua Road, Bantian, Longgang District, Shenzhen, China 518129 t (86-755) 25328888 f (86-755) 83106190 www.sgsgroup.com.cn
中国 · 深圳 · 龙岗区坂田吉华路430号江厦工业园4栋SGS大楼 邮编: 518129 t (86-755) 25328888 f (86-755) 83106190 e sgs.china@sgs.com
Member of the SGS Group (SGS SA)

UL Product iQ™

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 Min mm(in)	Min Edge mm(in)	Cond Thk mic(mil)	SS/ DS/ DSO	Max Area Diam mm(in)	Solder Limits C	sec	Max Oper Temp C	Flame Class	Meets UL796 DSR	CTI
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.

공정 능력

PCB 생산 능력

레이어 수	1 층-32 층
완성 된 구리 두께	1 / 3oz-12oz
최소 라인 폭 / 간격 내부	3.0mil / 3.0mil
최소 라인 폭 / 간격 외부	4.0mil / 4.0mil
최대 종횡비	10 : 1
보드 두께	0.2mm-5.0mm
최대 패널 크기 (인치)	635 * 1500mm
최소 천공 구멍 크기	4mil
Plated 구멍 공차	+/- 3mil
Blind / Buried Vias (All 유형)	예
비아 필 (전도성, 비전 도성)	예
기본 재료	FR-4, FR-4high Tg. 할로겐 프리 소재, 로저, 알루미늄베이스,폴리이 미드, 중동
표면 마감	HASL, OSP, ENIG, HAL-LF, 침수은,침수 주석, 금 손가락, 탄소 잉크

SMT 생산 능력

PCB 재료	FR-4, CEM-1, CEM-3, 알루미늄 기반 보드
최대 PCB 크기	510x460mm
최소 PCB 크기	50x50mm
PCB 두께	0.5mm-4.5mm
보드 두께	0.5-4mm
최소 구성 요소 크기	0201
표준 칩 크기 구성 요소	0603 이상
구성 요소 최대 높이	15mm
최소 리드 피치	0.3mm
최소 BGA 볼 피치	0.4mm
배치 정밀도	+/- 0.03mm

포장 및 배송

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

자주하는 질문

1. O-Leading은 어떻게 품질을 보장합니까?

우리의 고품질 표준은 다음과 같이 달성됩니다.

1.1 공정은 ISO 9001 : 2008 표준에 따라 엄격히 통제됩니다.

1.2 생산 공정 관리에서 소프트웨어의 광범위한 사용

1.3 최첨단 테스트 장비 및 도구. 예 : 플라잉 프로브, X-ray 검사, AOI (Automated Optical Inspector) 및 ICT (in-circuit testing).

1.4 실패 사례 분석 프로세스를 갖춘 전담 품질 보증 팀

1.5. 지속적인 직원 교육 및 교육

2. O-Leading은 어떻게 가격 경쟁력을 유지합니까?

지난 10 년 동안 많은 원자재 (예 : 구리, 화학 제품)의 가격이 두 배, 세 배 또는 네 배로 상승했습니다. 중국 화폐 인민폐는 미국 달러보다 31 % 상승했습니다. 노동 비용도 크게 증가했습니다.

그러나 O-Leading은 가격을 안정적으로 유지했습니다. 이는 비용 절감, 낭비 방지 및 효율성 개선이라는 혁신에 전적으로 달려 있습니다. 우리의 가격은 동일한 품질 수준에서 업계에서 매우 경쟁력이 있습니다.

우리는 고객과의 상생 파트너십을 믿습니다. 우리가 귀사에 경쟁력있는 비용과 품질을 제공 할 수 있다면 우리의 파트너십은 상호 이익이 될 것입니다.

3. O-Leading은 어떤 종류의 보드를 처리 할 수 있습니까?

일반 FR4, 고 TG 및 무 할로겐 보드, Rogers, Arlon, Telfon, 알루미늄 / 구리 기반 보드, PI 등

4. PCB □ PCBA □□□ □□□ □□□□ □□□□□?
4.1 □□ □□□□□ BOM (Bill of Materials) : □□ □□ □□, □□□□ □□ □ □□ □□.
4.2 PCB □□ □□.
4.3 PCB □□□ □ PCBA □□□.
4.4 □□ □□.
4.5 □□ □□ □□ □□□ □□ □□□ □□ □□.

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

6. HDI □□□□□ □□ □□□ □□□□□?
□□ □□ □□□ □□□ □□□□ : □□□ □□□ □□, □□□ □□, VCP □□, □□ □□ □□, LDI □
□□□ □□□ □□□ □□ □□□□, □□□ □□□ □□□ Mitsubishi□ Hitachi□□, LDI □□□ Screen (Japan)□□, □□ □□ □□□ Hitachi□□ □ □□□, □□□ □□ □□ □□□ □□ □□□□ □ □□□□.

7. O-lead□ □ □□ □□□ □□ □□ □□□ □ □ □□□□?
O- □□□ ENIG, OSP, LF-HASL, □□□ (□□ / □□), □□□, □□, □□□, □□ □□ □□, □□ □□ □□ □□ □□ □□ □□□□ □□□□ □□□□. HDI□ □ □□□□□ □□□□ OSP, ENIG, OSP + ENIG, BGA PAD □□□ 0.3 mm □□□ □□ □□□□□ □□□□□ □□ OSP OSP + ENIG□ □ □□□ □□ □□□□.

8. FPC □□□ □□□□□? O-Leading□ SMT □□□□ □□ □ □ □□□□?
O-Leading□ □□ □□□ 8 □□□ FPC□ □□□ □ □□□, □□ □□ □□□ 2000mm * 240mm□□ □□□□□. □□□ □□□ "Flex Capability" □□□□ □□□□□□.
□□□ □□ □□□□ SMT □ □□ □□□□ □□□□□.

9. PCB □□□ □□□ □□□ □□ □□□ □□□□□?
□□;
□□ □□□;
□□ □□□;
□□ □□ □□;
PCB □□;
□□ □□;
□□ □□ □□.

10. PCB, PWB □ FPC□ □□□ □□□□ □□□□□?
PCB□ □□ □□ □□□ □□□□□.
PWB□ □□ □□ □□ (Printed Wire Board)□ □□□□ □□ □□ □□□ □□ □□□□□.
FPC□ Flexible Printed Board□ □□□□□.

11. PCB □□□ □□□ □□□ □ □□□□ □ □□□ □□□□□?
PCB □ □□□ □□□ □ □□ □□□ □□□□□□□.
□□□ Tg □□ □□ □□□□ □□□□□.
□□ CTE □□□ □□□ □ □□□ □□□ □□□;
□□□ □ □□ □□ : □□□□□ PCB□ □□ 50 □ □□ 250 °C□ □□□□□□.
□□ □□□; □□□ □□□ □□□ □ □□□ / □ □□□ □□□ □□□ PCB□ □□□□□. □□ PCB□ □□□□ □□□ □□ □□ □□ □□; □□ □□□ □□□ □□□ □□ □ □ □□□□□ □ □□□□□.

12. O-leading□ □□ PCB□ □□□ □□□□□?
O-leading□ □□□ □□□ PCB□ FPC□ PCB□ □□□ □□□□ □□ □□ □□□ □□□ □ □□□□.

13. □□□□ □□ □□□ □□□□□?

임피던스 제어 시스템은 일부 테스트 쿠폰, SI6000 soft 및 POLAR INSTRUMENTS의 CITS 500s 장비를 사용하여 수행됩니다.
장비는 고객이 결정한 값과 공차를 제공 한 대표적인 트랙 구성 쿠폰에서 임피던스를 측정합니다.