

O-leading PCB 專業 製造 服務

O-Leading PCB 專業, PCB 製造 及 PCB 組裝 服務 EMS 服務 及 專業 製造 服務 提供 專業 服務. 專業 HDI PCB, 專業 PCB, Rigid-Flexible PCB 專業 製造 及 PCB 組裝 服務. 及 專業 製造 服務 及 專業 製造 服務 專業 服務.

專業 製造 服務 專業 製造 服務, 專業 製造 服務 及 專業 製造 服務 專業 服務 專業 服務. 專業 製造 服務 專業 製造 服務 專業 服務 專業 服務 專業 服務.

O-leading 專業 製造 服務 專業 製造 服務 專業 製造 服務 專業 製造 服務 PCB 及 PCBA 專業 製造 服務 專業 製造 服務.

專業 製造 服務 專業 製造 服務 : [專業 製造 服務 PCB 專業 製造 服務](#)

O-LEADING
To Be Reliable, To Be Valuable

WE ALWAYS PROVIDE YOU

BEST HIGH DENSITY INTERCONNECT PCB

WE ALWAYS PROVIDE YOU

BEST RIGID-FLEXIBLE CIRCUIT



Raspberry Pi 3 專業 A +, Raspberry Pi 3B + 專業 製造 服務, 及 專業 製造 服務, 及 專業 製造 服務 ([Raspberry Pi 專業 製造 服務 專業 製造 服務 PCB 專業 製造 服務](#))

□□

RAM 512MB □□□ USB □□□ □□□□□ □□□□ Raspberry Pi 3 Model A + □ □ □ □ □ □□□□.

□□□ □□ □□□ □□□□□.

Raspberry Pi 3 Model A + □□ Raspberry Pi 3B + □□ □□□□ □□□ □□ □□□ □□□ □□ □□ □□□□□.

* 1.4GHz 64 □□ □□ □□ ARM Cortex-A53 CPU

* 512MB LPDDR2 SDRAM

* □□ □□ 802.11ac □□ LAN □ Bluetooth 4.2 / BLE

* □□□□ USB □□□□ □□ □□ □□

* □□□□ □ □□

□ □□□ □□□□□ □□ □□□ FCC □□□□ □□ □□ □□□ □□□□□ Raspberry Pi □□ □□□ □□□ □□□ □□ □□ □ □□□□□.



TOP QUALITY PCBA
O-LEADING
To Be **Reliable**, To Be **Valuable**



MAKE YOUR IDEA COME **TRUE**

□□□

- * Broadcom BCM2837B0, Cortex-A53 (ARMv8) 64-bit SoC @ 1.4GHz
- * 512MB LPDDR2 SDRAM
- * 2.4GHz / 5GHz IEEE 802.11.b / g / n / ac WLAN, Bluetooth 4.2 / BLE
- * 17x17-pin I2C
- * 40-pin GPIO
- * 1x HDMI
- * 2x USB 2.0
- * Raspberry Pi camera module CSI
- * 1x DSI
- * 4x USB 2.0
- * 1x SD card
- * 5V / 2.5A DC



TOP QUALITY PCBA
O-LEADING
 To Be **Reliable**, To Be **Valuable**



MAKE YOUR IDEA COME **TRUE**



TOP QUALITY PCBA

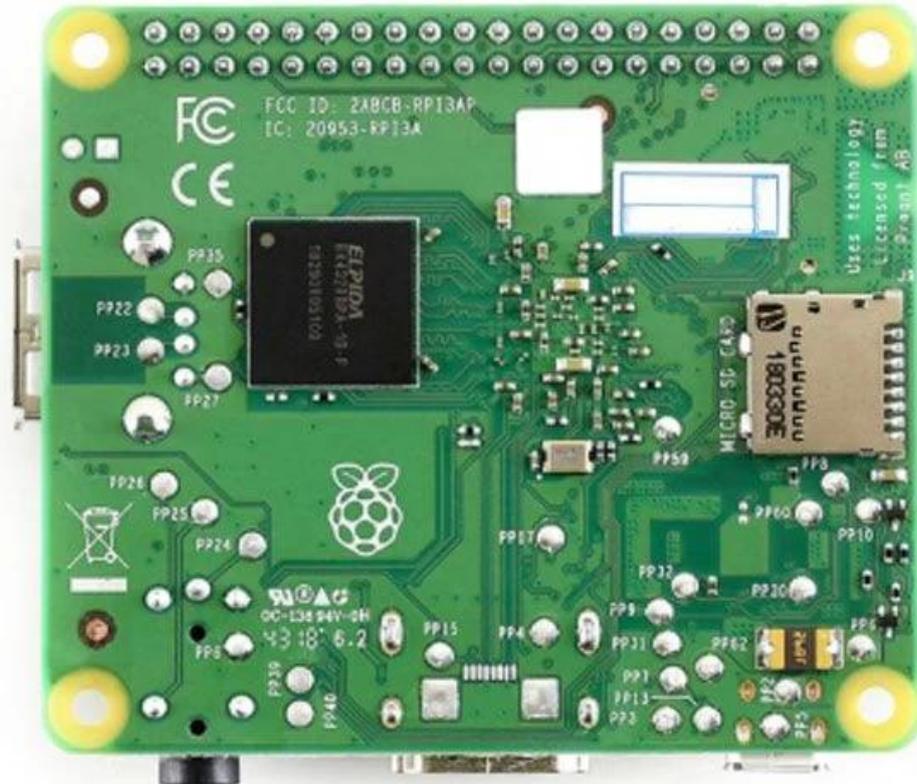
O-LEADING
To Be **Reliable**, To Be **Valuable**



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TOP QUALITY PCBA

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To Be Reliable, To Be Valuable



MAKE YOUR IDEA COME **TRUE**

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To Be Reliable, To Be Valuable



MAKE YOUR IDEA COME **TRUE**



O-LEADING CUSTOMER

To be **RELIABLE**

- Q**uality first ,
- C**ustomer supreme ,
- S**cientifically management ,
- S**triving for famous brand



THE CUSTOMER IS KING



To be **VALUABLE**

- S**cience and technology keeps head ,
- P**ut people first ,
- B**e precise and practical ,
- C**ontribute sincerely

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



HOW O-LEADING MAKE A PROJECT FOR YOU

Hardware Dispenser Application Not

Automatic Dispenser Application Not

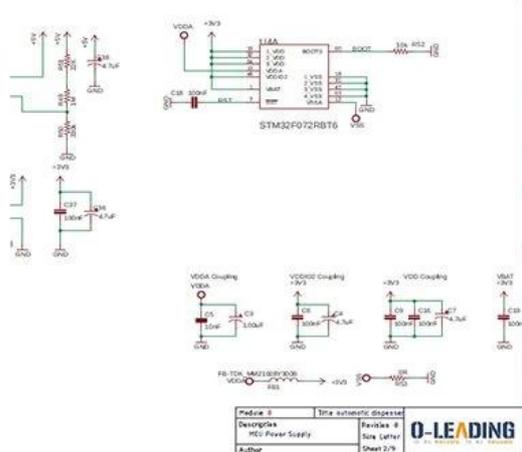
Voltage Table

| Volt Pin Number | Description |
|-----------------|-----------------|
| VDD | Battery voltage |
| +3V3 | +3.3V |
| +5V | +5V |
| USB +5V | USB 5V input |
| +5V/2 | Isolated +5V |
| +12V | 12V DC Drive |

STM32F072 PINOUT table

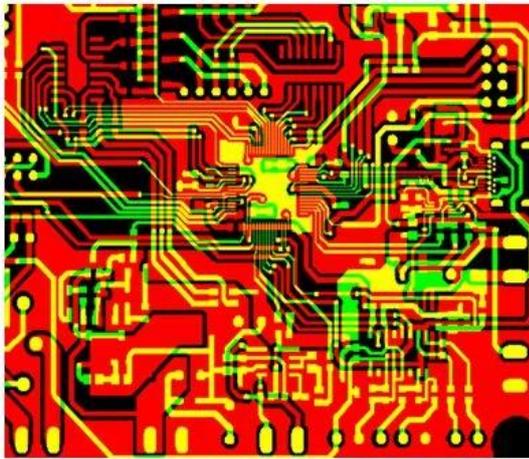
| Wire Name | Description | DIO | Mode | Note |
|-------------|--|----------|------|-----------------------|
| SMTN_TOF | Shutdown Time of flight sensor | Output | | Logic '0' to shutdown |
| I2C_SCL_TOF | I2C communication with time of flight sensor | I2C1_SCL | | |
| I2C_SDA_TOF | I2C communication with thermopile sensor | I2C1_SDA | | |
| I2C_SCL_IR | I2C communication with thermopile sensor | I2C2_SCL | | |
| I2C_SDA_IR | I2C communication with thermopile sensor | I2C2_SDA | | |
| RATE_LC | Load cell control pins | Output | | |
| DOUT_LC | Load cell control pins | Output | | |

O-LEADING
TO BE RELIABLE, TO BE AVAILABLE

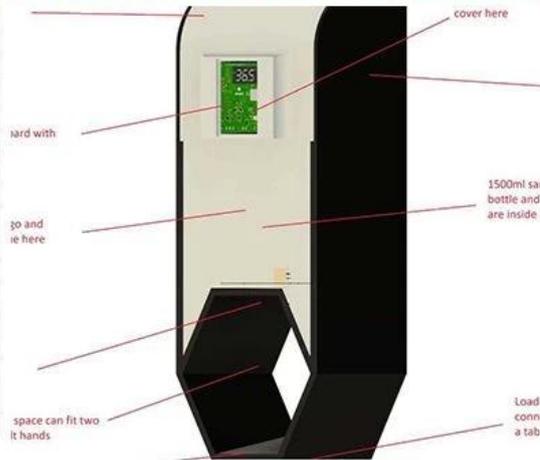


HARDWARE schematics

PCB PRODUCTION COMPONENTS SOURCING



| Qty | Value | Device | Parts | Description |
|-----|---------|---------------|---------|---------------------------------|
| 4 | AK500/2 | AK500/2 | X1, X2 | CONNECTOR |
| 1 | AK500/3 | AK500/3 | X7 | CONNECTOR |
| 1 | 1241148 | MA04-2 | SV2 | |
| 1 | PPPC04 | MA04-2 | SV1 | 8 POS, 4*2 FEMALE PIN HEAD |
| 1 | ML10 | ML10 | SV4 | HARTING |
| 1 | 8MHZ | XTALL_CSTCE8M | X5 | STCE8M00G52-R0 RESONATOR |
| 1 | 0R | R-0603 | R53 | Thick Film Resistors - SMD 0603 |
| 2 | 10R | R-0603 | R12, R5 | Thick Film Resistors - SMD 0603 |
| 8 | 100R | R-0603 | R1, R2 | Thick Film Resistors - SMD 0603 |
| 1 | 270R | R-0805 | R15 | Thick Film Resistors - SMD 0605 |
| 1 | 330R | R-0603 | R11 | Thick Film Resistors - SMD 0603 |
| 9 | 680R | R-0603 | R20, R3 | Thick Film Resistors - SMD 0603 |
| 17 | 1k | R-0603 | R9, R10 | Thick Film Resistors - SMD 0603 |
| 2 | 4.7k | R-0603 | R17, R6 | Thick Film Resistors - SMD 0603 |
| 2 | 5.1k | R-0603 | R18, R1 | Thick Film Resistors - SMD 0603 |
| 9 | 10k | R-0603 | R16, R3 | Thick Film Resistors - SMD 0603 |
| 9 | 10k | R-0603 | R20, R7 | Thick Film Resistors - SMD 0603 |



PCB Assembly MECHANICAL DESIGN

Skyworth 创维

HET 和而泰
HET INTELLIGENT CONTROL

dongweikeji
东威科技

美的 Midea

STAR-NET
星网锐捷

FORYOU
ADAYO 华阳集团

EDIFIER[®]

Cultraview 金锐显

3nod 三诺

T&W

TCL

AcBel 康舒科技
ACBEL POLYTECH INC.

Honeywell

Schneider
Electric

ZTE 中兴

EMERSON

BYD

PHILIPS

TE
connectivity

VIDEOTON

CUSTOMER VOICE IS **EXTREMELY IMPORTANT** TO US

订单编号: 49335463501024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



High quality usb power pcb , pcba manufacturer

★★★★★

Fancy has done an excellent job, whenever we write, she answered us within 1 second, O-leading is very perfect with fast delivery, fast logistics, the most important thing is good quality, good packaging, thank you!

[回复该评论](#)



oem customized rohs pcb drawing schematic s...

★★★★★

We received the boards, the quality is very good, the price is very reasonable, Fancy is very nice & smart & experienced, the logistics is super fast, I will come to see more in the future.

[回复该评论](#)

订单编号: 490224962001024670

United States

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



High TG180 FR-4 Circuit HDI PCB 94V0 Board...

★★★★★

This is a very difficult PCB design, but we are lucky to find O-leading to support the PCB for us very good to a PCB supplier.



universal FR4 Multilayer PCB washing machine...

★★★★★

Fancy gives us very excellent service, very professional and experienced, O-leading is the best one of our suppliers, very happy to work with them.

订单编号: 49298271001024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



High TG180 FR-4 Circuit HDI PCB 94V0 Board ...

★★★★★

perfect product, perfect PCB supplier!

[回复该评论](#)



oem customized rohs pcb drawing schematic s...

★★★★★

Very good and professional PCB product as usual!

[回复该评论](#)



Strip LED Aluminum FR-4 lighting PCB board 9...

★★★★★

High quality, fast delivery, good service, competitive price, lucky and happy to purchase from O-leading!

[回复该评论](#)

订单编号: 4093862201024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



High quality Keyboard pcb & pcba Factory SMT...

★★★★★

Top quality, it's the right choice to choose O-leading to make the PCB & PCBA

[回复该评论](#)



Professional Printed Circuit Board Manufactur...

★★★★★

Very high quality PCB products, O-leading is the best PCB supplier that we have ever worked with.

订单编号: 44068794501034670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



High TG180 FR-4 Circuit HDI PCB 94V0 Board ...

★★★★★

We bought two batches, one by DHL, the other one by air, good quality and fast delivery!

LISTEN TO CUSTOMER VOICE

订单编号: 40903347501024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



Strip LED Aluminum FR-4 lighting PCB board 9...

★★★★★

Very fast delivery! Fantastic, good job!!!



Professional Printed Circuit Board Manufactur...

★★★★★

Very happy to great support from O-leading, they are not only professional on the PCB, but also provide good PCB products, very good supplier!

订单编号: 36919647001024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



AML-S802 Quad-core Android embedded boar...

★★★★★

Good products



Fast delivery low cost pcb fabrication O-leadin...

★★★★★

Good supplier

订单编号: 37378603001024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



hot sale rigid-flexible PCB with 0.2mm BGA an...

★★★★★

very professional supplier



High Quality custom FPCB/Flex PCB/FPC/Flexi...

★★★★★

Good product



OEM ODM PCBA Bluetooth Wireless Marking G...

★★★★★

high soldering quality



Electronic parts haptic pcba Circuit Board asse...

★★★★★

Very Good product

订单编号: 37378603001024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



Lidar IR Sensor board pcba(H08R6x)

★★★★★

perfect product



Customized PCBA design PCB design

★★★★★

perfect



Audio Speaker and Headphone Jack (H07R3x)

★★★★★

High quality, good

订单编号: 37378603001024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



Raspberry pi 0 Zero Raspberry Pi Zero P1 W ver...

★★★★★

Fantastic products!!!



double layer pcb with red S/M and LF-HASL su...

★★★★★

Good!

订单编号: 37378603001024670

供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)



half hole pcb, half hole pcb module, half hole m...

★★★★★

Top half hole pcb supplier, very perfect goods



High Quality custom FPCB/Flex PCB/FPC/Flexi...

★★★★★

this rigid-flexible pcb quality is perfect!



Electronic parts haptic pcba Circuit Board asse...

★★★★★

Very satisfied with O-leading products and quality, especially their on-time delivery, fantastic!

Be kind to your client, because he has many choices, but he chooses you instead.



O-LEADING TRAINING



Keep *LEARNING*

There's a phrase in Buddhism, 'Beginner's mind.'

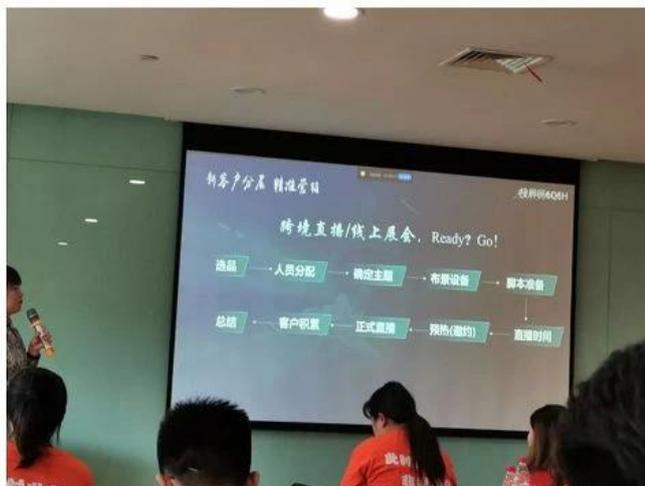
It's wonderful to have a beginner's mind

WE HAVE A *DREAM*

Keep *RUNNING*

I would like to live to study, and not study to live.

----Bacon





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 tests(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 :

| 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 | 0/1 |
|------------------------------|-------|-------|-----|-----|
| 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 Thk mic(mil) | SS/ DS/ DSO | Max | Max | | Meets UL796 | C T | |
|--|---------------|---------------|-------------------------|-------------------|------------------------|-----------------------|-------------------|----------------|--------|----------------|
| | Min | Edge | | | Area Diam mm(in) | Solder Limits C | Oper Temp C | | | Flame Class |
| | mm(in) | mm(in) | | | | sec | | 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 | |
| Thickness | 1.6mm - 3.2mm |
| Weight | 1 / 3oz-12oz |
| Copper Thickness | 3.0mil / 3.0mil |
| Prepreg Thickness | 4.0mil / 4.0mil |
| Max Aspect Ratio | 10 : 1 |
| Panel Size | 0.2mm ~ 5.0mm |
| Panel Size (mm) | 635 * 1500mm |
| Layers | 400 |
| Plated Thickness | +/- 3mil |
| Blind / Buried Via (ABV) | Yes |
| Via Fill (Prepreg, Epoxy) | Yes |
| Material | FR-4, FR-4high Tg, Epoxy, Polyimide, etc. |
| Surface Finish | HASL, OSP, ENIG, HAL-LF, Immersion silver, Immersion gold, etc. |

SMT

| | |
|-----------------|--------------------------------|
| PCB Material | FR-4, CEM-1, CEM-3, Epoxy, FPC |
| PCB Size | 510x1500mm |
| PCB Shape | 50x50mm |
| PCB Thickness | 0.5mm-4.5mm |
| Panel Size | 0.5-4mm |
| Panel Size (mm) | 0201 |
| Panel Size (mm) | 0603 |
| Panel Size (mm) | 15mm |
| Panel Size (mm) | 0.3mm |
| Panel BGA | 0.4mm |
| Panel Thickness | +/- 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 0000 0000 000000?

0000 0000 0000 0000 00 000000.

1.1 000000 ISO 9001 : 2008 0000 00 000000 000000.

1.2 00 000000 0000 00000000 000000 00

1.3 0000 0000 00 0 00. 0 : 0000 0000, X- 0000 00, AOI (0000 0000 0000) 0 ICT (0000 0 0000).

1.4 00 00 00 000000 00 00 00 00 0

1.5. 000000 00 00 0 00

2. O-Leading 0000 00 000000 000000?

0000 10 0 0000 0000 (0 : 0000, 0000 0000) 0000 0 0, 0 0 0000 00 000000. 0000 00 000000 0000 0000 31 % 00000000. 0000 000000 0 00000000.

0000 O-Leading 0000 000000 00000000. 0000 0000 0000, 0000 0000 0 0000 0000 0000 0000 0000 000000 000000. 0000 0000 0000 0000 0 0000 000000 00 000000 000000.

0000 000000 00 00000000 000000. 0000 0000 0000 0000 0000 0000 0 0 0000 0000 00000000 0000 0000 0 000000.

3. O-Leading 00 0000 0000 00 0 0 000000?

000000 FR4, 0 TG 0 0000 0000 0000, Rogers, Arlon, Telfon, 000000 / 0000 0000 0000, PI 0

4. PCB 与 PCBA 的差别是什么?

- 4.1 什么是 BOM (Bill of Materials) : 物料清单, 物料表
- 4.2 PCB Gerber 文件.
- 4.3 PCB 与 PCBA 的差别.
- 4.4 什么是 PCB.
- 4.5 什么是 PCBA.

5. PCB 的制造流程是什么?

设计 → 材料 → 钻孔 → 电镀 → AOI → 阻焊 → PTH → 成型 → 表面处理 → 检测 → 包装

6. HDI 是什么?

HDI 高密度互连板 : 多层板, VCP, LDI. 材料: 环氧树脂, 铜箔, 铜粉, 铜浆, 铜球, 铜膏, 铜粉, 铜浆, 铜球, 铜膏, 铜粉, 铜浆, 铜球, 铜膏. 设备: Mitsubishi, Hitachi, LDI Screen (丝网), Hitachi 曝光机.

7. O- 是什么意思?

O-the ENIG, OSP, LF-HASL, 电镀 (铜 / 镍), 电镀, 铜球, 铜浆, 铜粉, 铜浆, 铜球, 铜膏, 铜粉, 铜浆, 铜球, 铜膏. HDI 的 OSP, ENIG, OSP + ENIG, BGA PAD 间距 0.3mm 的 OSP OSP + ENIG.

8. FPC 是什么? O-Leading SMT 是什么?

O-Leading 间距 8mm FPC 的间距. 尺寸: 2000mm * 240mm. 特性: "Flex Capability" 柔性. SMT 表面贴装技术.

9. PCB 的测试方法是什么?

- 外观;
- 尺寸;
- 重量;
- 电阻;
- PCB 测试;
- 电性能;
- 可靠性测试.

10. PCB, PWB 与 FPC 的差别是什么?

PCB 刚性板. PWB Printed Wire Board 印刷电路板. FPC Flexible Printed Board 柔性电路板.

11. PCB 的耐热性是什么?

PCB 的耐热性: Tg (玻璃化转变温度), CTE (热膨胀系数). 材料: 环氧树脂 PCB 的 50 到 250 °C. 测试: 热冲击, 热老化. PCB 的耐热性: 50 到 250 °C. 测试: 热冲击, 热老化. PCB 的耐热性: 50 到 250 °C. 测试: 热冲击, 热老化.

12. O-leading rigid-flex PCB 是什么?

O-leading rigid-flex PCB 刚性柔性 PCB. 特性: 刚性板与柔性板的结合. 应用: 汽车电子, 医疗设备, 工业控制. 优点: 体积小, 重量轻, 可靠性高. 缺点: 成本高, 制造复杂.

