

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 服務.

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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 專業 製造 服務 專業 製造 服務.

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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 專業 製造 服務, 專業 製造 服務 專業 製造 服務 ([Raspberry Pi 專業 製造 服務 專業 製造 服務](#))
[專業 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
- * 17x17mm Pin Header
- * 40x1mm GPIO Header
- * 1x HDMI
- * 2x USB 2.0
- * Raspberry Pi Camera Module CSI
- * 1x DSI Display
- * 4x USB 2.0
- * 1x SD Card
- * 5V / 2.5A DC Power



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



MAKE YOUR IDEA COME **TRUE**



TOP QUALITY PCBA

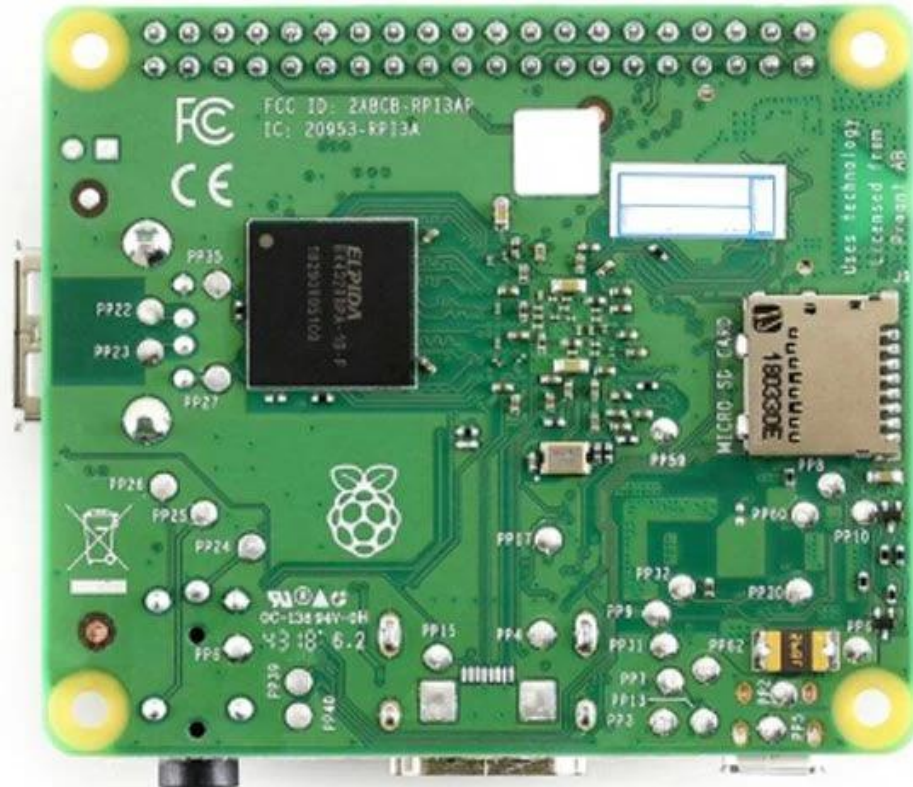
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To Be Reliable, To Be Valuable



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TOP QUALITY PCBA

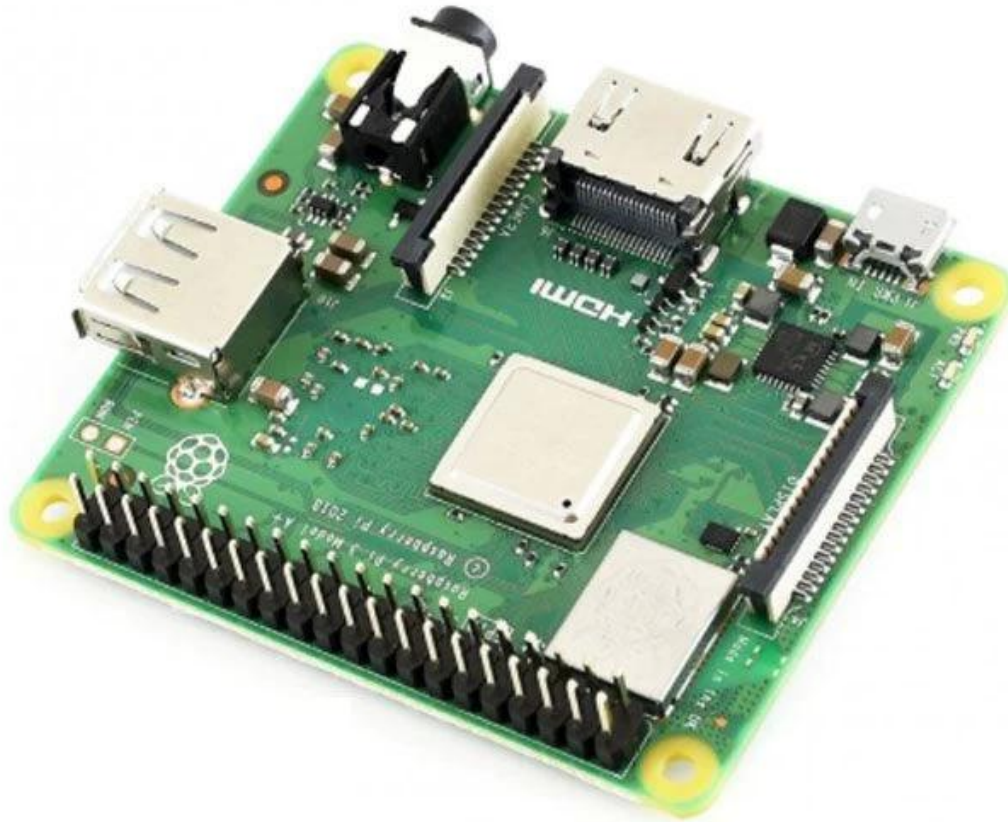
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TOP QUALITY PCBA

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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

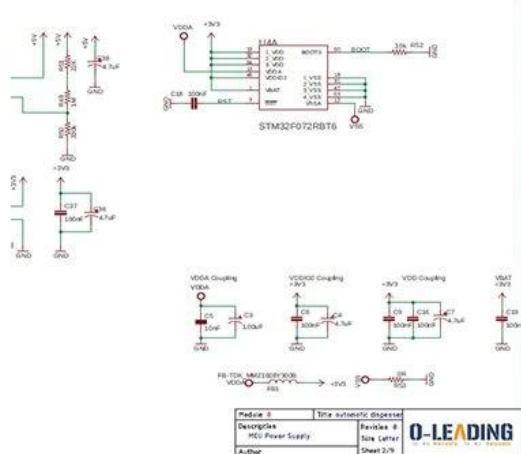
Voltage Table

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

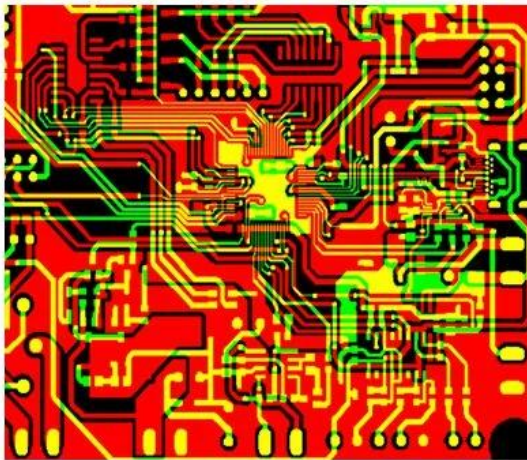
Wire Name	Description	DIO	Mode	Note
SMTN_TOF	Shutdown Time of flight sensor	Output		Logic '0' to shutdown
I2C_SCL_TOF	I2C communication with time of flight sensor	I2C1_SCL		
I2C_SDA_TOF	I2C communication with thermopile sensor	I2C1_SDA		
I2C_SCL_IR	I2C communication with thermopile sensor	I2C2_SCL		
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

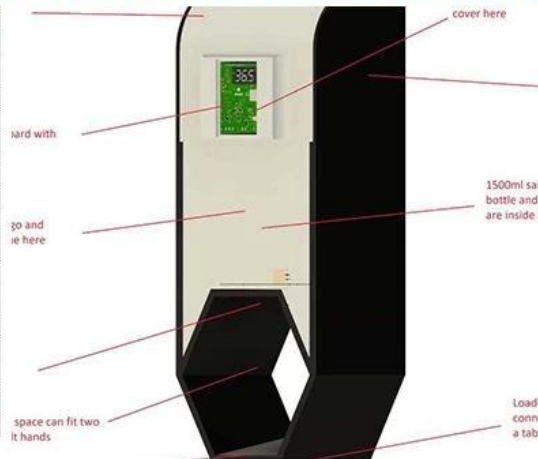
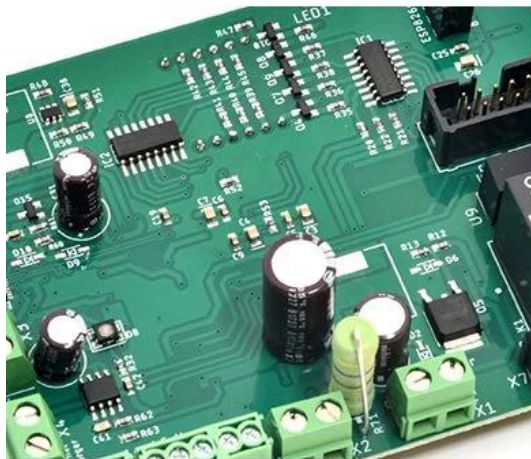


HARDWARE schematics

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



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](#)

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: 36919647001024670


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: 36919647001024670


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.'

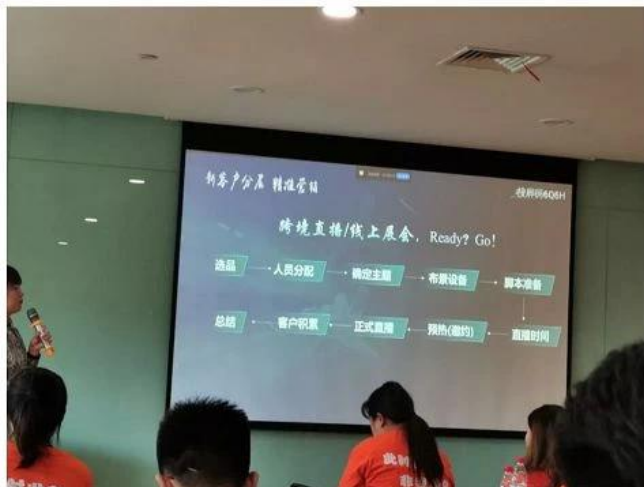
It's wonderful to have a beginner's mind

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 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 :

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
 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
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 参数**

层数	1 / 32
铜厚	1 / 3oz-12oz
外层铜厚 / 内层铜厚	3.0mil / 3.0mil
外层铜厚 / 内层铜厚	4.0mil / 4.0mil
Max Aspect Ratio	10 : 1
板厚	0.2mm ~ 5.0mm
板宽 (mm)	635 * 1500mm
板长 (mm)	400
Plated 厚度	+/- 3mil
Blind / Buried Via (All)	
Via Fill (铜, 树脂)	
材料	FR-4, FR-4high Tg, 铜, 树脂, Polyimide, 铜
表面处理	HASL, OSP, ENIG, HAL-LF, Immersion silver, Immersion 铜, 镍, 锡

SMT 参数

PCB 材料	FR-4, CEM-1, CEM-3, 铜箔 PCB, FPC
板宽	510x1500mm
板长	50x50mm
板厚	0.5mm-4.5mm
孔径	0.5-4mm
最小孔径	0201
最小间距	0603
最小孔径	15mm
最小间距	0.3mm
最小 BGA 间距	0.4mm
最小孔径	+/- 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 0 000 00 0000 (0 : 000, 000 000) 0000 0 0, 0 0 00 0 00 000000. 0000 00 000000 0000 0000 31 % 00000000. 0000 000000 0 00000000.

0000 O-Leading 0000 000000 00000000. 0000 0000 000, 0000 00 0 0000 0000 0000 0000 0000 000000 000000. 0000 0000 0000 00 0 0000 000000 00 000000 000000.

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

3. O-Leading 00 0000 0000 00 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 → 曝光 → 显影 → AOI → 钻孔 → 沉铜 → 电镀 → PTH → 阻焊 → 成型 → 测试 → 包装

6. HDI 是什么?

HDI 高密度互连板 : 多层板, VCP, LDI. 材料: Mitsubishi, Hitachi, LDI Screen (油墨), Hitachi 油墨.

7. O- 是什么意思?

O-the ENIG, OSP, LF-HASL, 表面处理, HDI 0.3mm 间距, OSP + ENIG.

8. FPC 与 O-Leading SMT 的差别是什么?

O-Leading 8 层 FPC, 2000mm * 240mm, Flex Capability, SMT.

9. PCB 的层数是多少?

- 2层;
- 4层;
- 6层;
- 8层;
- 10层;
- 12层;
- 14层;
- 16层;
- 18层;
- 20层;

10. PCB, PWB 与 FPC 的差别是什么?

PCB 刚性板, PWB Printed Wire Board, FPC Flexible Printed Board.

11. PCB 的耐热性如何?

PCB 耐热性, Tg, CTE, 50-250 °C, 耐热性, 耐热性.

12. O-leading rigid-flex PCB 是什么?

O-leading rigid-flex PCB, FPC, PCB, 刚性板, 柔性板, 耐热性, 耐热性.

13. 1990 1000 1000000?

1990 1000 1000000 POLAR INSTRUMENTS 1000 1000 1000, SI6000 1000 1000 CITS 500s 1000 1000 1000000.
1000 1000000 10000 1000 1000 1000 1000 1000 1000 1000 1000 1000000 1000000.