

PCB 製造 各種 PCB O-Lead

O-Leading 提供各種 PCB 製造服務，包括 EMS 及 PCB 製造。我們提供各種 PCB 製造服務，包括 (PCBA) 及各種 PCB 製造服務，包括 HDI PCBs 及 PCBs 製造。我們提供 Rigid-Flexible PCBs 製造服務。 (OEM 製造服務)

我們提供各種 PCB 製造服務，包括：各種 PCB 製造服務，包括各種 PCB 製造服務。我們提供各種 PCB 製造服務，包括各種 PCB 製造服務。

我們提供各種 PCB 製造服務，包括 O-Lead 製造服務。我們提供各種 PCB 製造服務，包括各種 PCB 製造服務。我們提供各種 PCB 製造服務，包括各種 PCB 製造服務。

[Control Board Design and Manufacturing Pcb](#) [PCBA Assembling](#)

O-LEADING
To Be Reliable, To Be Valuable

WE ALWAYS PROVIDE YOU

BEST HIGH DENSITY INTERCONNECT PCB

WE ALWAYS PROVIDE YOU

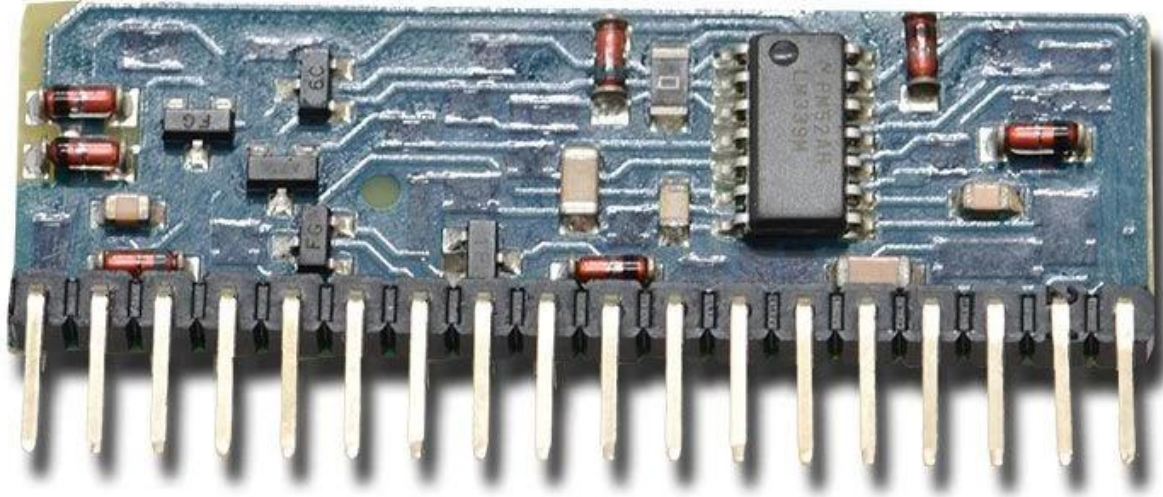
BEST RIGID-FLEXIBLE CIRCUIT

PCB 製造 各種 PCB

TOP QUALITY PCBA

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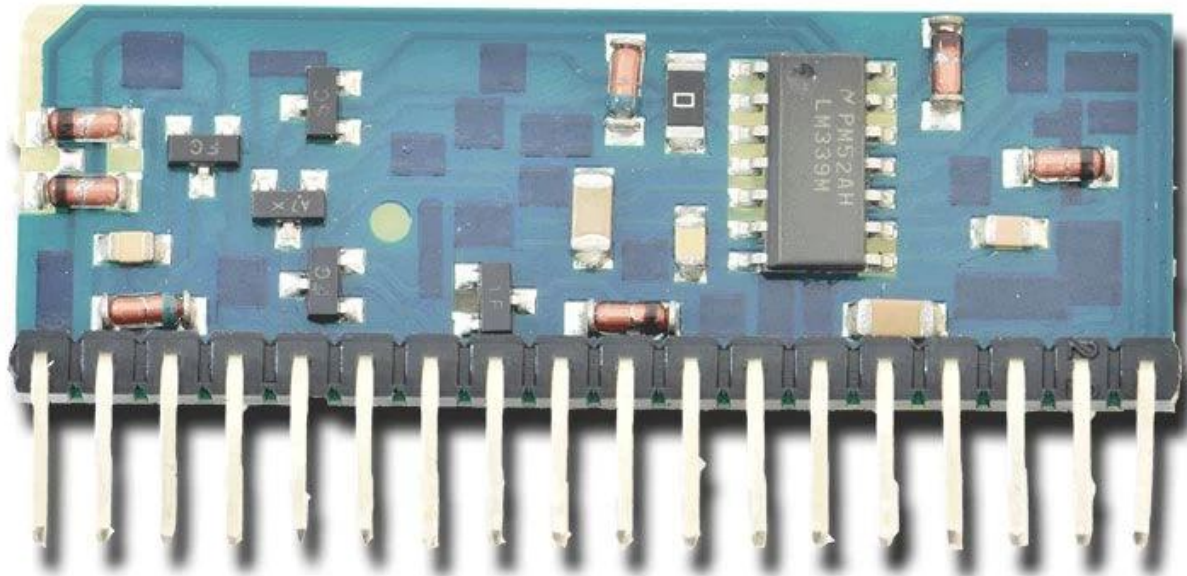


MAKE YOUR IDEA COME **TRUE**

TOP QUALITY PCBA

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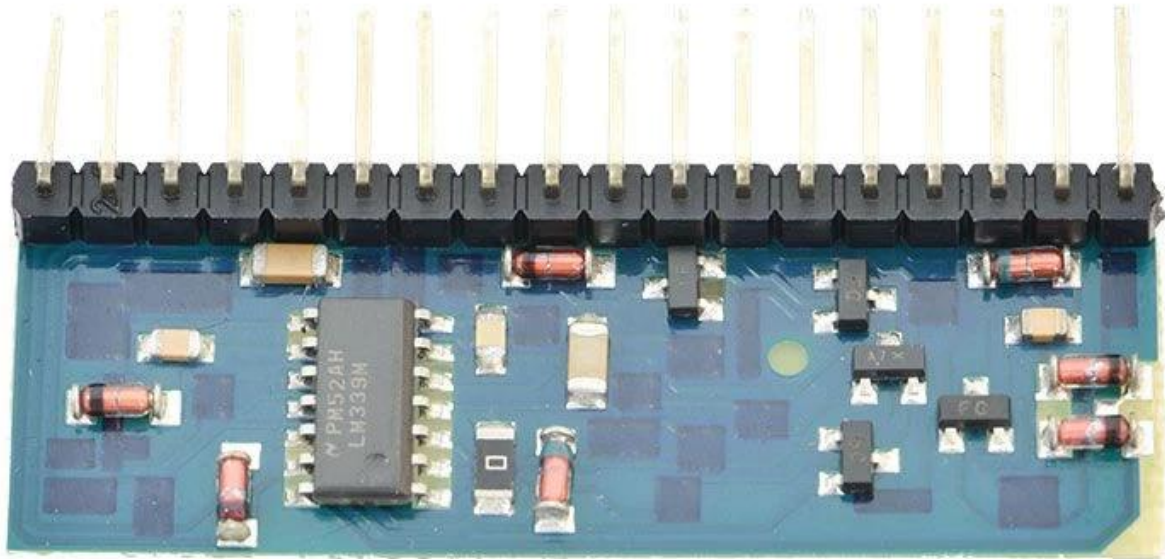


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TOP QUALITY PCBA

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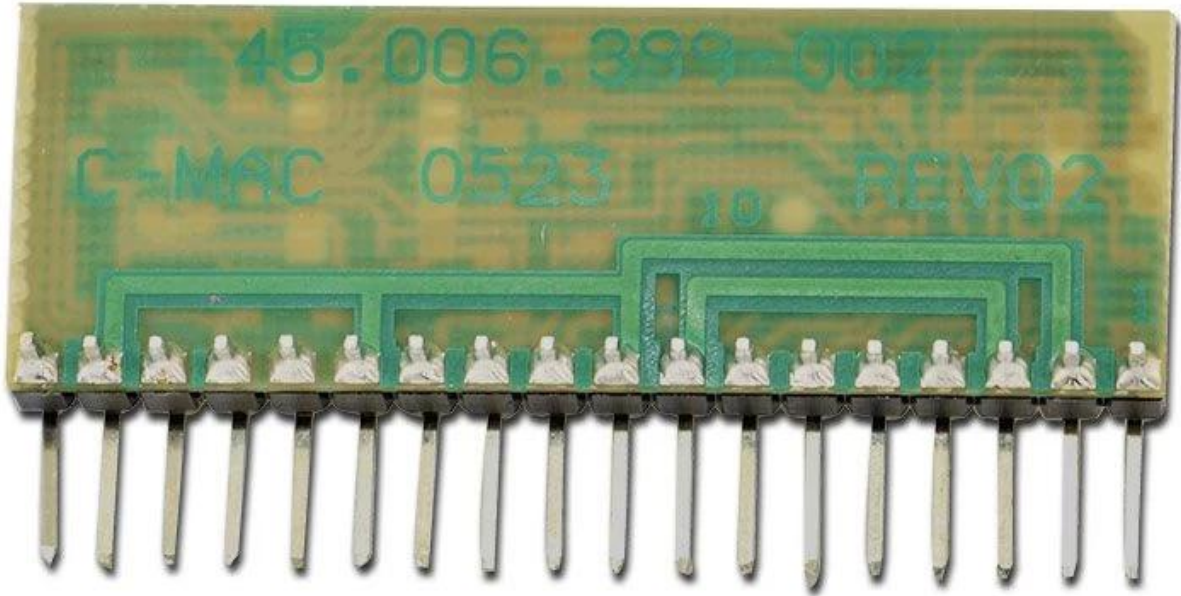


MAKE YOUR IDEA COME **TRUE**

TOP QUALITY PCBA

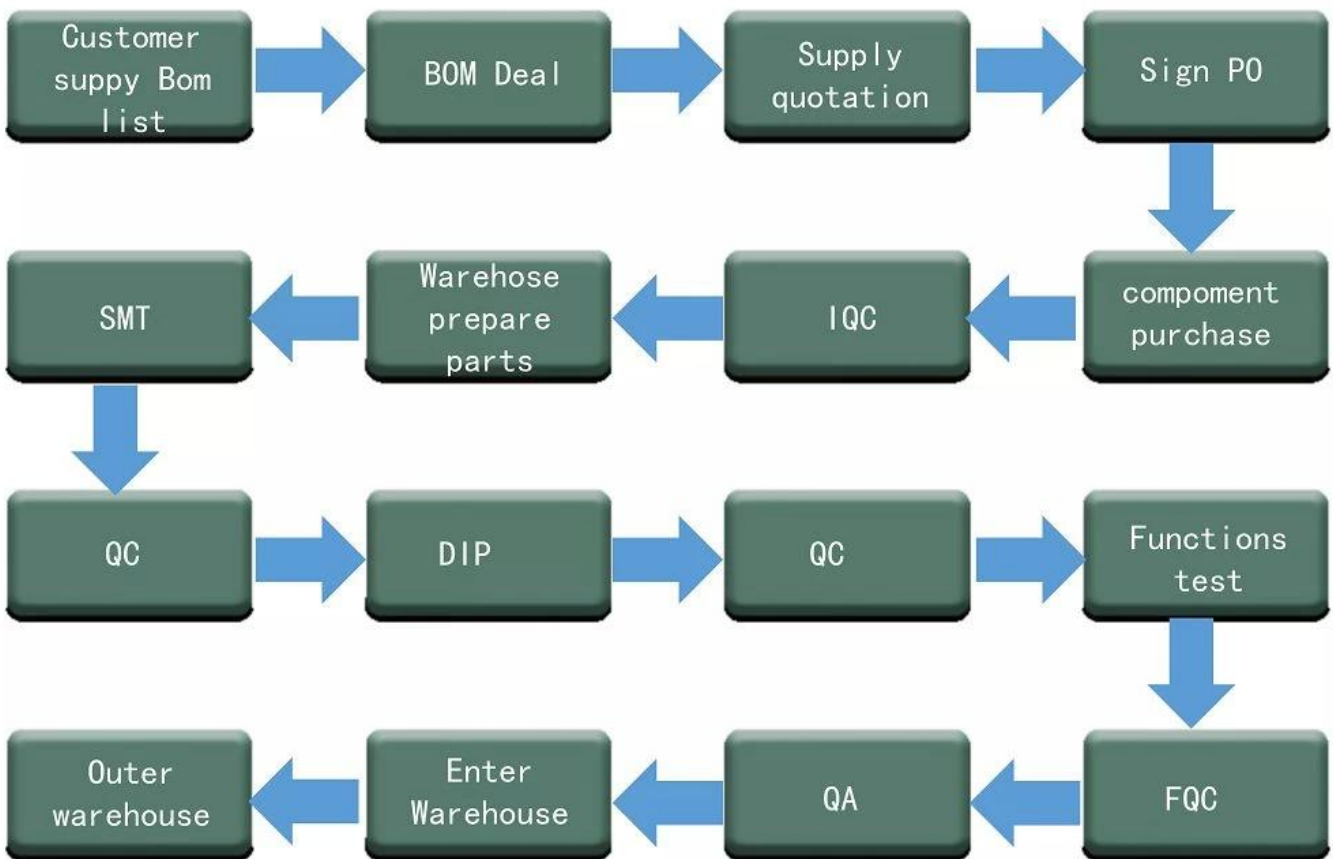
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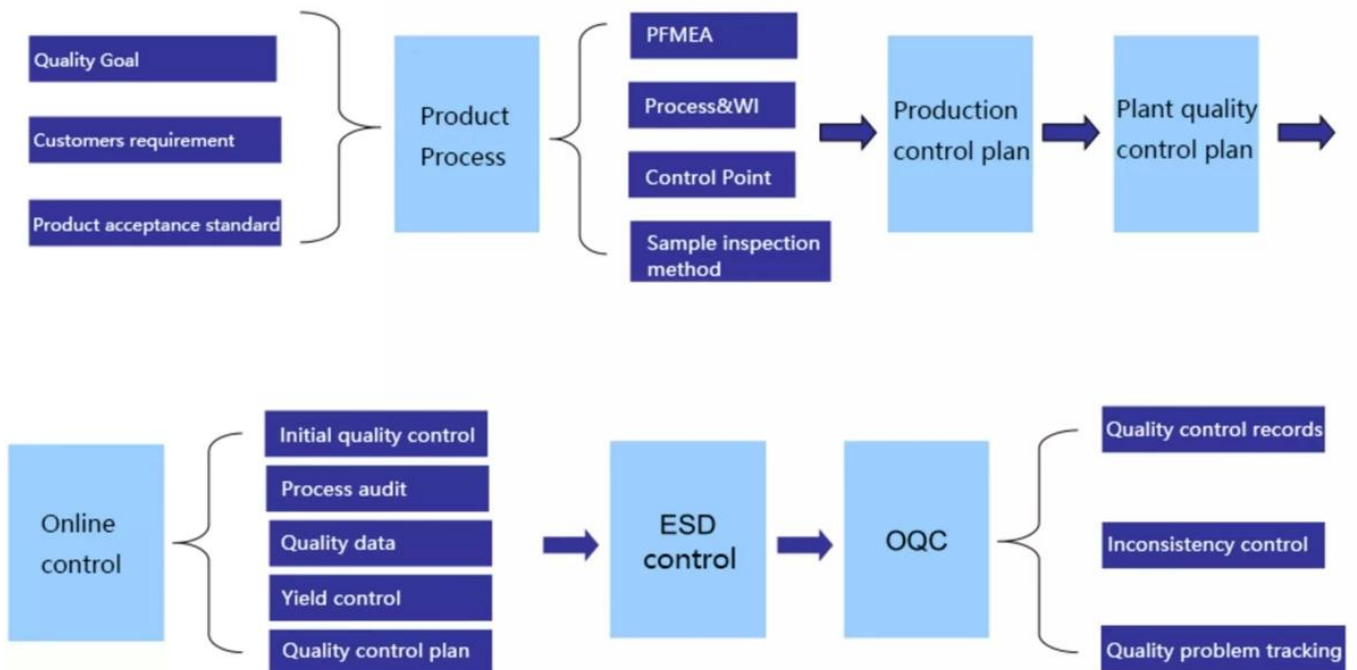


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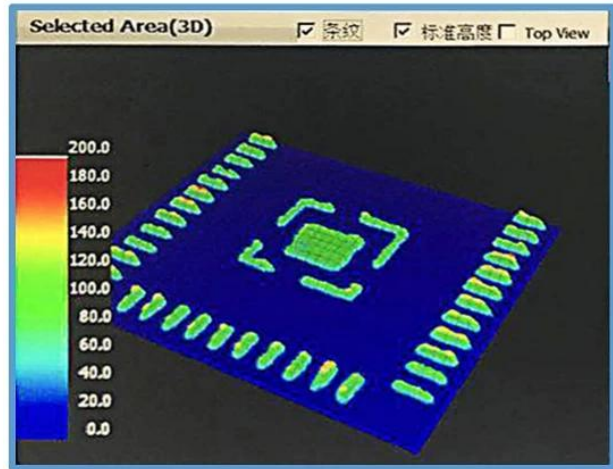
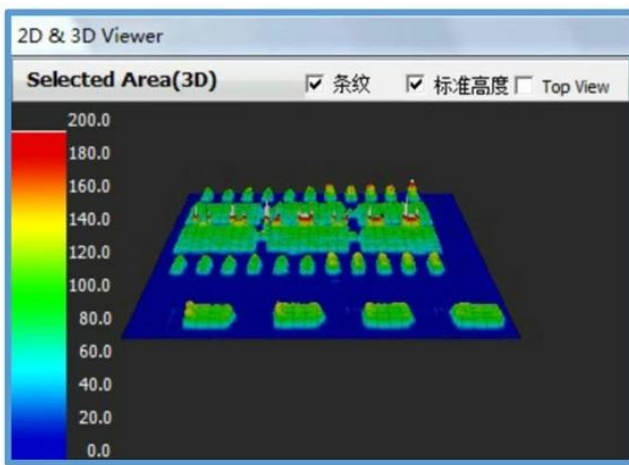
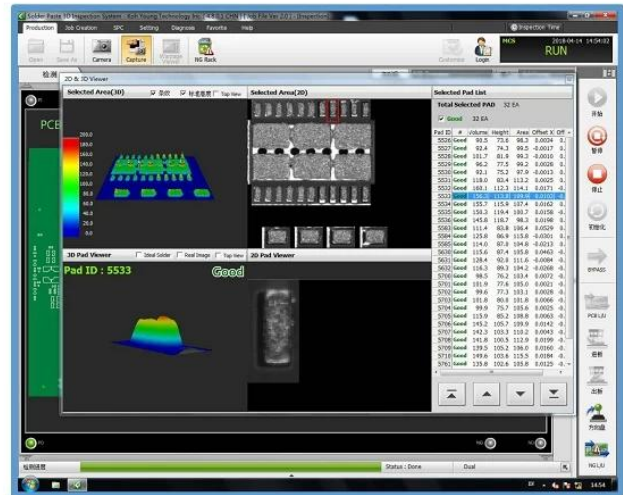
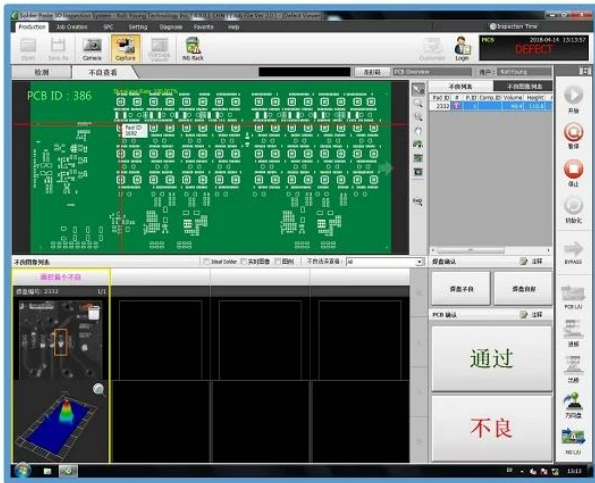
Process Flow Chart



Quality Control Process



KOHYOUNG solder pasteig check SPI Figure 3 d imaging



فریقنا

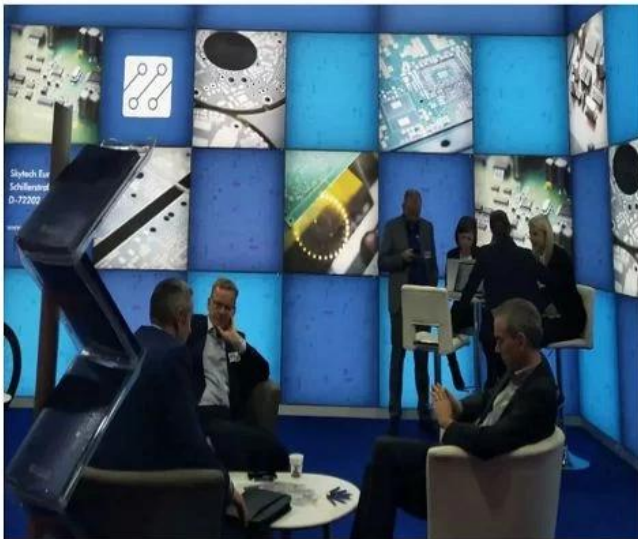
O-LEADING CUSTOMER

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

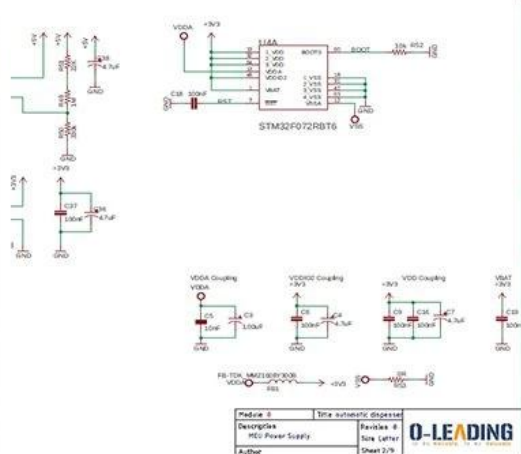
Voltage Table

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

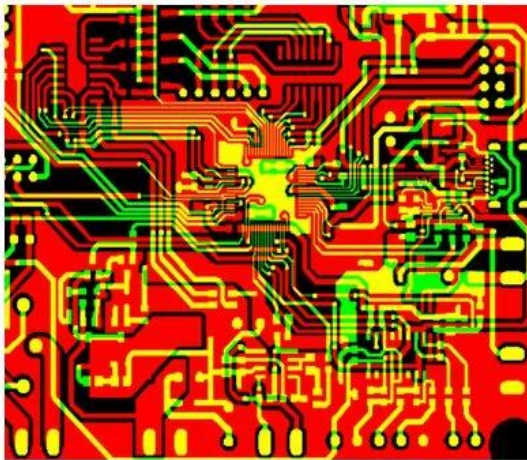
Wire Name	Description	DIO	Mode	Note
SMTN_TOF	Shutdown Time of flight sensor	Output		Logic '0' to shutdown
I2C_SCL_TOF	I2C communication with time of flight sensor	I2C1_SCL		
I2C_SDA_TOF	I2C communication with thermopile sensor	I2C1_SDA		
I2C_SCL_IR	I2C communication with thermopile sensor	I2C2_SCL		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

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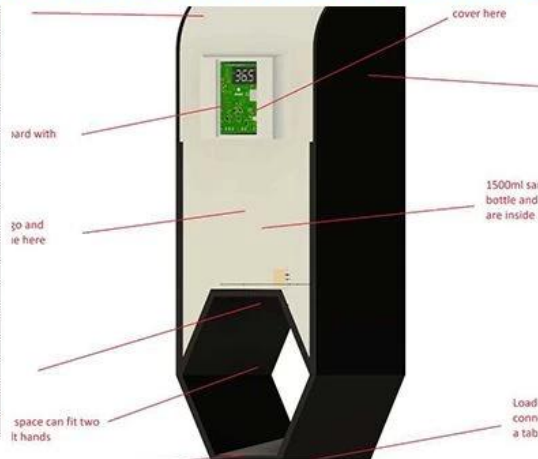
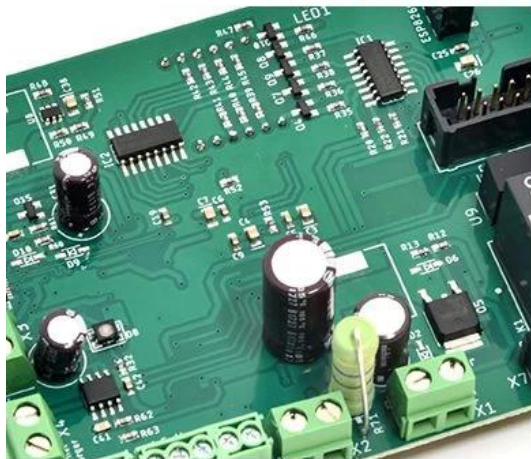


HARDWARE schematics

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: 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: 49924962001024670

United States

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: 499862201024670

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




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)



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!

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 PI W ver...

★★★★★

Fantastic products!!



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

★★★★★

Good!

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

الشهادات

O-LEADING *TRAINING*



Keep *LEARNING*

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

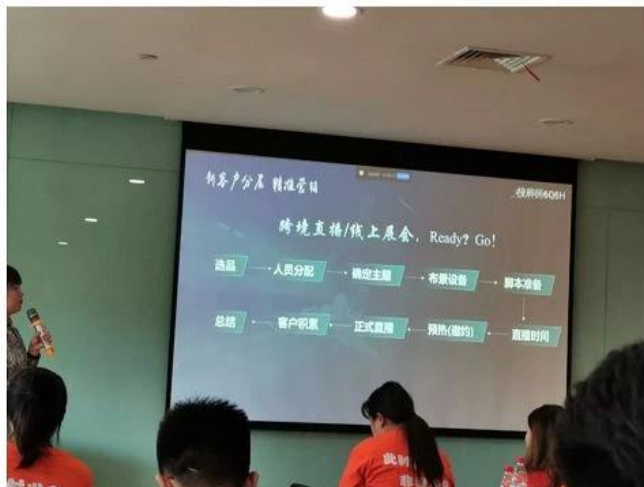
It's wonderful to have a beginner's mind

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
Tri bromobiphenyl	-	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
Tri bromodiphenyl 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	C	I	
	Min	Edge			Area	Solder	Oper				Flame
	mm(in)	mm(in)			Diam mm(in)	Limits C	Temp sec	Class C	UL796 DSR	T	
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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القدرة العملية

القدرة العملية	1 32
القدرة العملية	1/3 12 -
القدرة العملية /	3.0 3.0 /
القدرة العملية /	4.0 4.0 /
القدرة العملية	10: 1
القدرة العملية	0.2 5.0 -
القدرة العملية	635 * 1500
القدرة العملية	4
القدرة العملية	+/- 3
Blind / Buried Vias (All)	
القدرة العملية	
القدرة العملية	FR-4 FR-4high Tg. CEM-1 CEM-3 FPC
القدرة العملية	HASL OSP ENIG HAL-LF Immersion Immersion

القدرة العملية SMT

القدرة العملية	FR-4 CEM-1 CEM-3 FPC
القدرة العملية	510x1500
القدرة العملية	50 x 50
القدرة العملية	0.5 4.5 -
القدرة العملية	0.5-4
القدرة العملية	0201
القدرة العملية	0603
القدرة العملية	15
القدرة العملية	0.3
القدرة العملية	0.4
القدرة العملية	+/- 0.03

التعبئة والتغليف والتسليم

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

التعليمات

1. اختبار O-Leading

يتم اختبار O-Leading وفقًا للمعايير التالية:

- 1.1 ISO 9001: 2008.
- 1.2 اختبار O-Leading وفقًا للمعايير التالية: Flying Probe □ X-ray Inspection □ AOI (Automated Optical Inspector) □ ICT (اختبار التيار المستمر).
- 1.4 اختبار O-Leading وفقًا للمعايير التالية: 1.4
- 1.5 اختبار O-Leading وفقًا للمعايير التالية: 1.5

2 O-Leading

يتم اختبار O-Leading وفقًا للمعايير التالية:

- اختبار O-Leading وفقًا للمعايير التالية: 31 اختبار O-Leading وفقًا للمعايير التالية: 31
- اختبار O-Leading وفقًا للمعايير التالية: 31 اختبار O-Leading وفقًا للمعايير التالية: 31
- اختبار O-Leading وفقًا للمعايير التالية: 31 اختبار O-Leading وفقًا للمعايير التالية: 31

3 O-Leading

FR4 PCB 材料の選定は、Rogers、Arlon、Teflon、PI などの材料を選択する必要がある。

4

4.1 BOM (部品表) の作成は、設計段階から行う必要がある。

4.2 PCB (印刷基板) の設計

4.3 PCB の製造工程 (PCBA) の確認

4.4 検査工程の確認

4.5 最終製品の確認

5

AOI (自動光学検査) と AOI (自動光学検査) の組み合わせによる検査工程の最適化。

6

VCP (真空成形) と LDI (レーザー直接イメージング) の採用による生産性の向上。

Mitsubishi、Hitachi の LDI 装置や Screen (日立) の LDI 装置の導入による品質の向上。

7 O-lead

O-the Leader による ENIG、OSP、LF-HASL、OSP、ENIG、OSP + ENIG、HDI、OSP、OSP + ENIG、BGA などの技術の導入。

8 FPC と **O-Leading** と **SMT**

FPC 2000、O-Leading、SMT による生産性の向上と "Flex Capability" の実現。

9

検査工程の最適化と品質の向上に関する具体的な取り組み。

10 PCB と **PWB** と **FPC**

PCB、PWB、FPC の製造工程と品質管理に関する取り組み。

11

CTE (熱膨張係数) の管理と 250℃ での試験による信頼性の向上。

