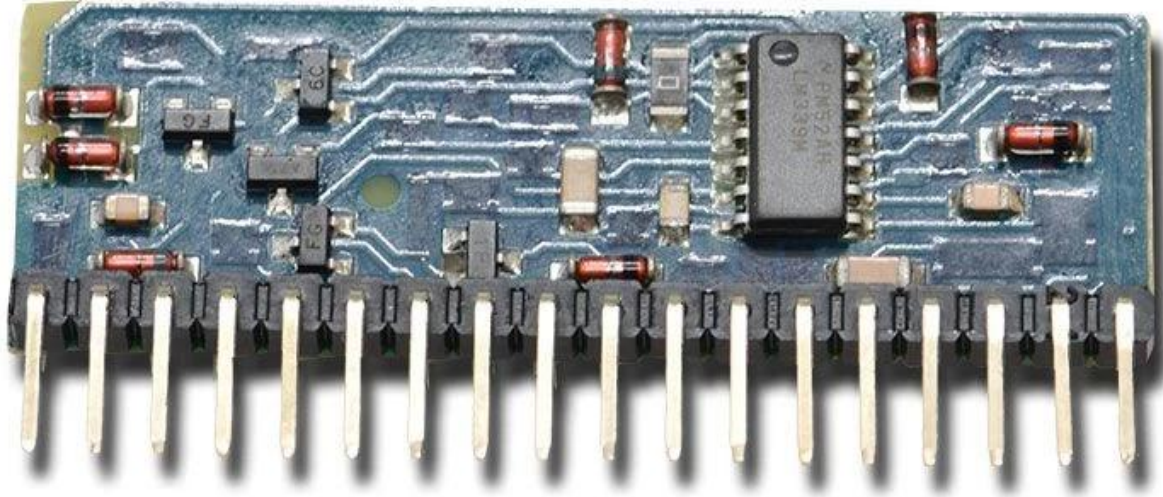




TOP QUALITY PCBA

**O-LEADING**

To Be Reliable, To Be Valuable

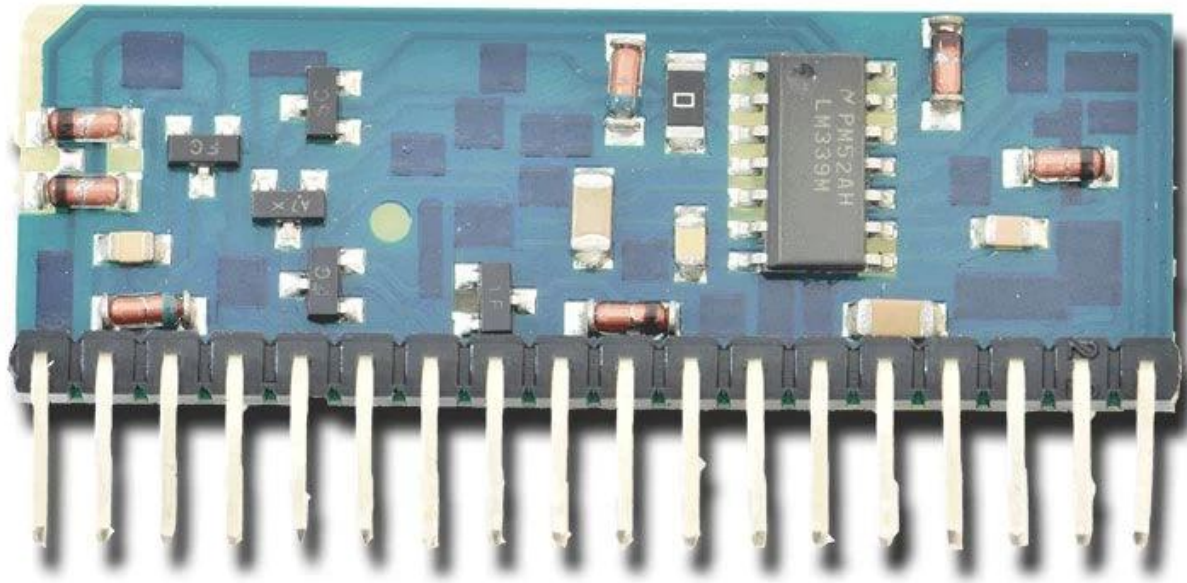


MAKE YOUR IDEA COME **TRUE**

TOP QUALITY PCBA

**O-LEADING**

To Be Reliable, To Be Valuable

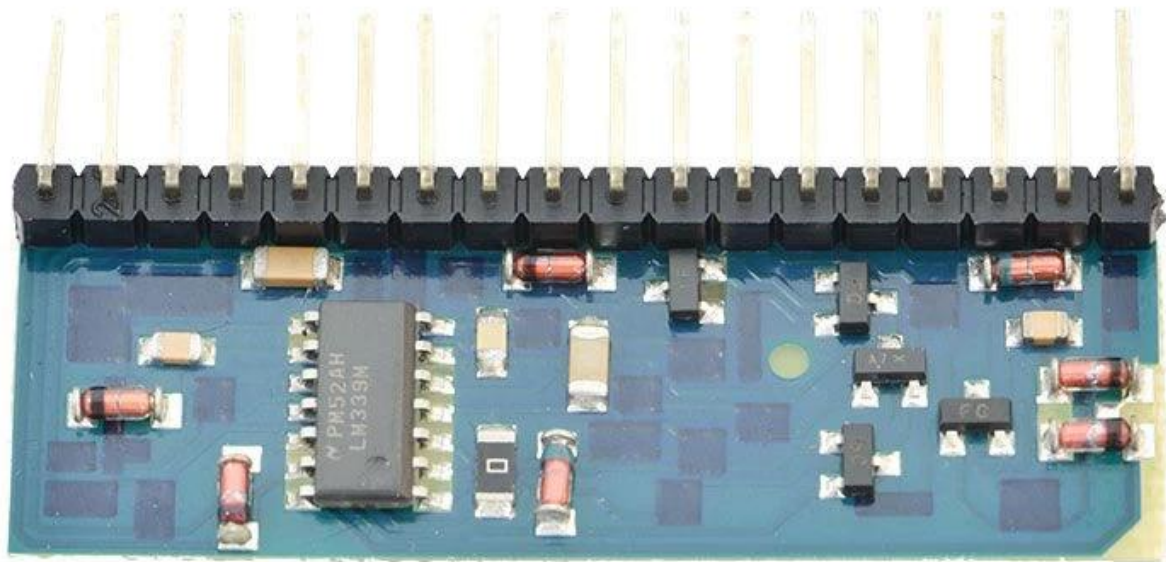


MAKE YOUR IDEA COME **TRUE**

TOP QUALITY PCBA

**O-LEADING**

To Be Reliable, To Be Valuable

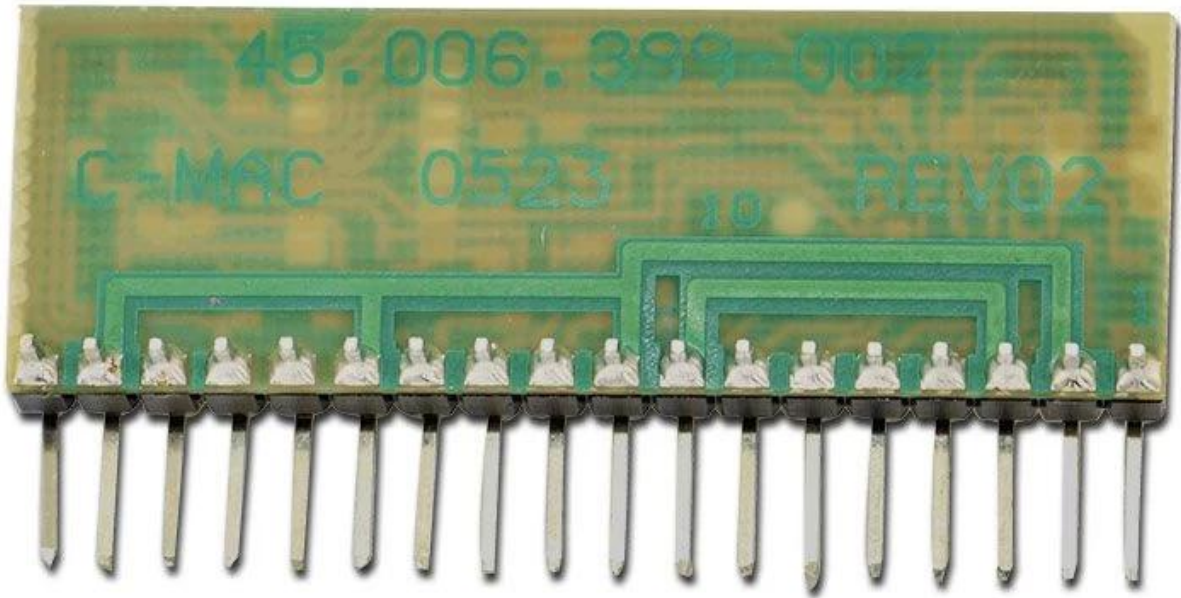


MAKE YOUR IDEA COME **TRUE**

TOP QUALITY PCBA

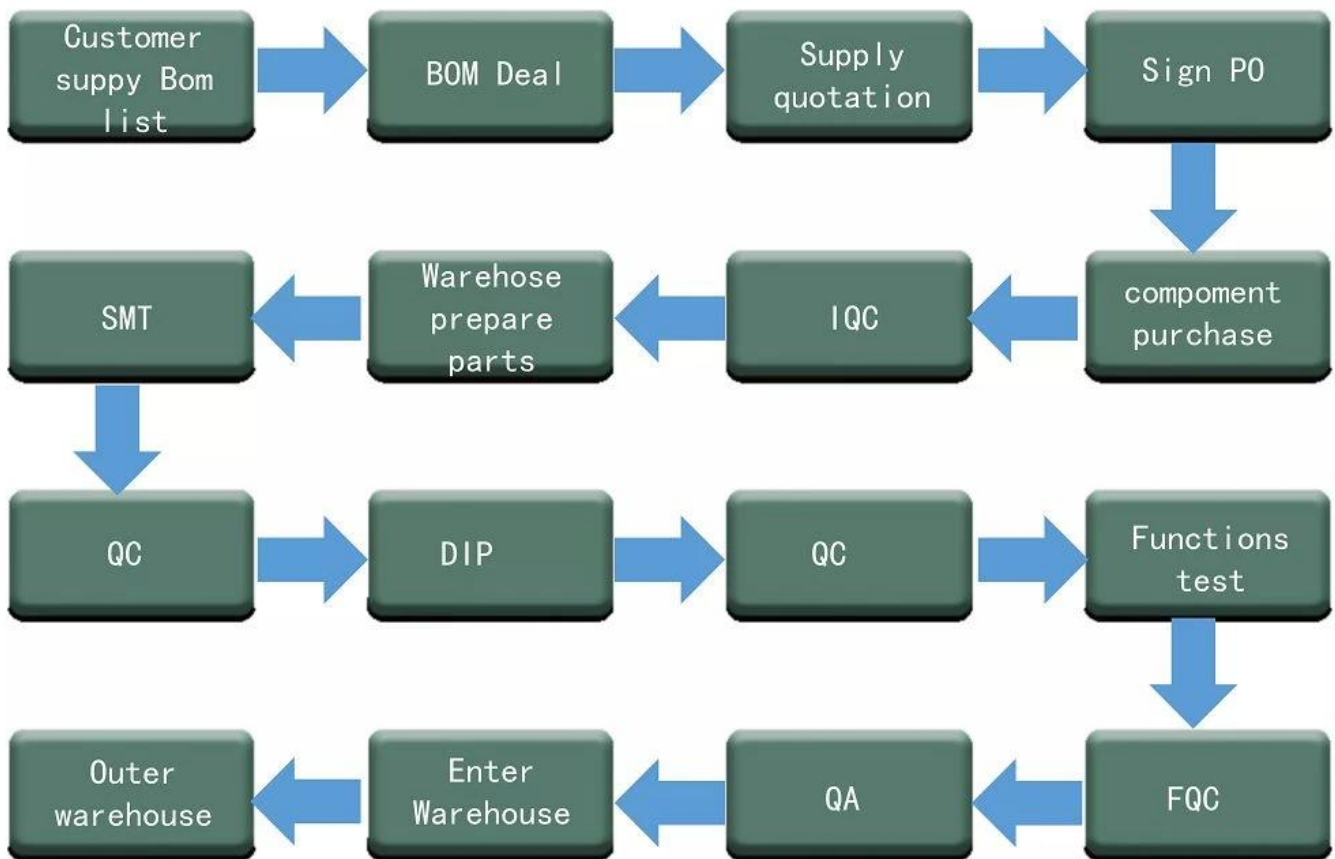
**O-LEADING**

To Be Reliable, To Be Valuable

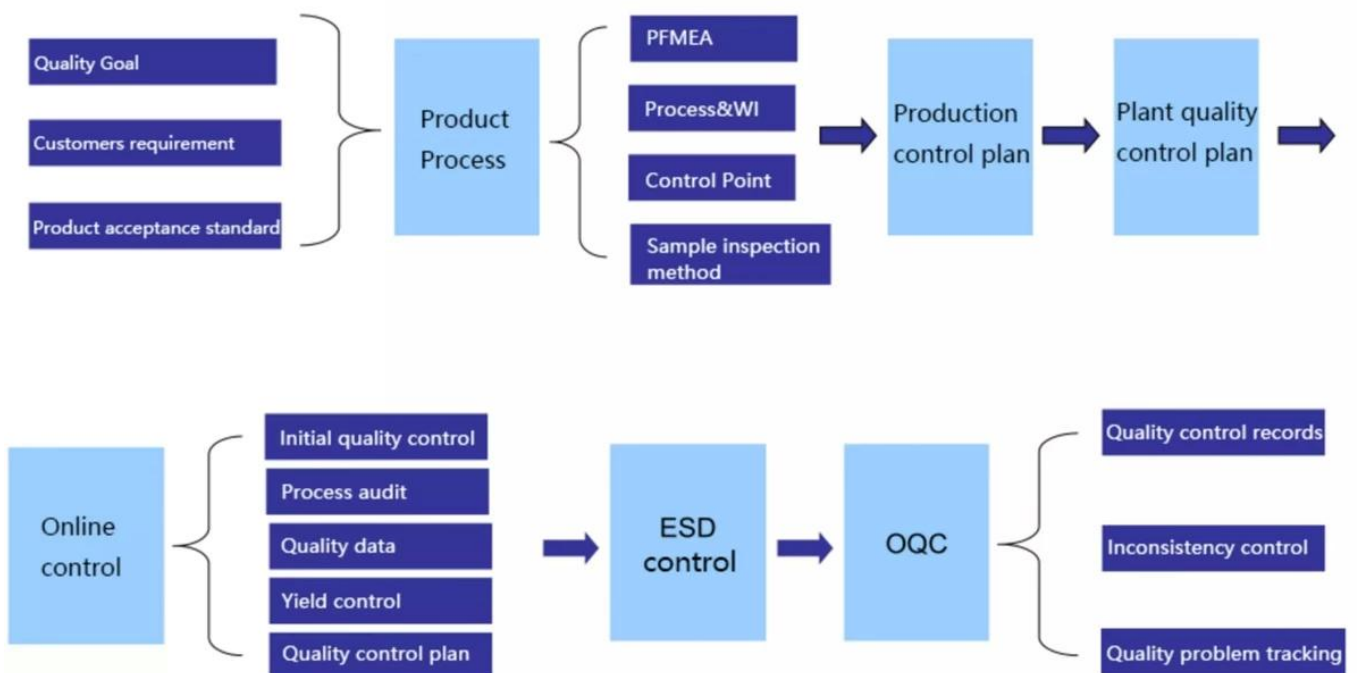


MAKE YOUR IDEA COME **TRUE**

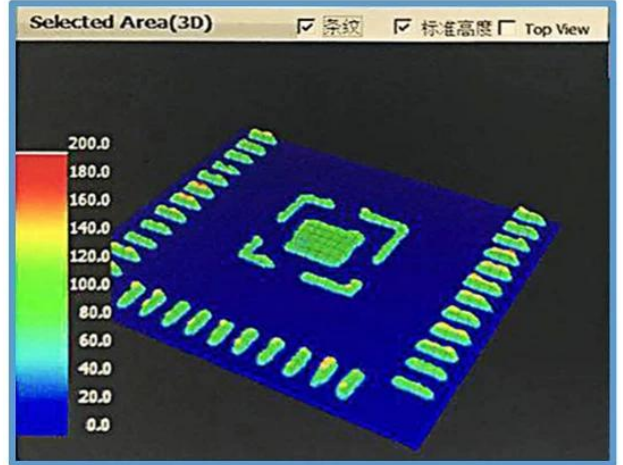
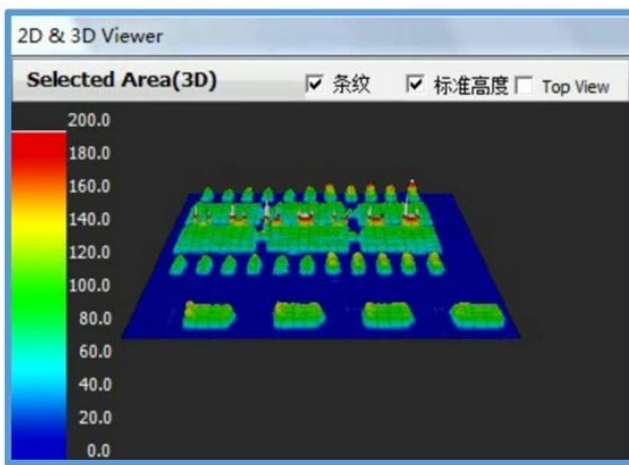
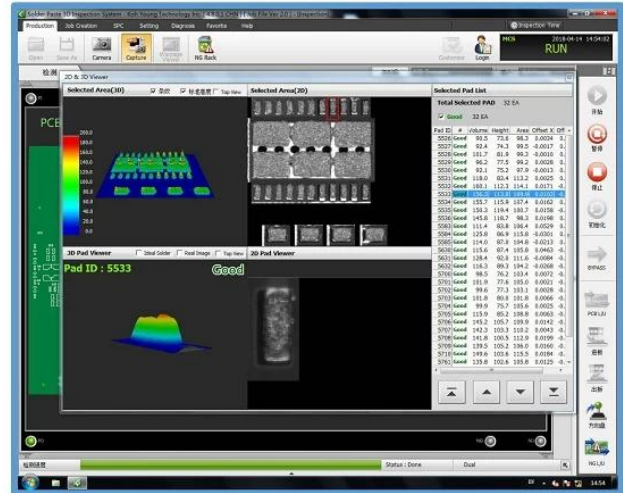
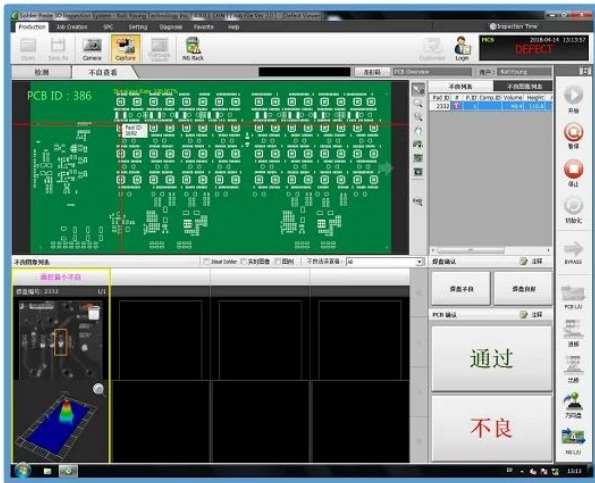
## Process Flow Chart



## Quality Control Process



# KOHYOUNG solder pasteig check SPI Figure 3 d imaging



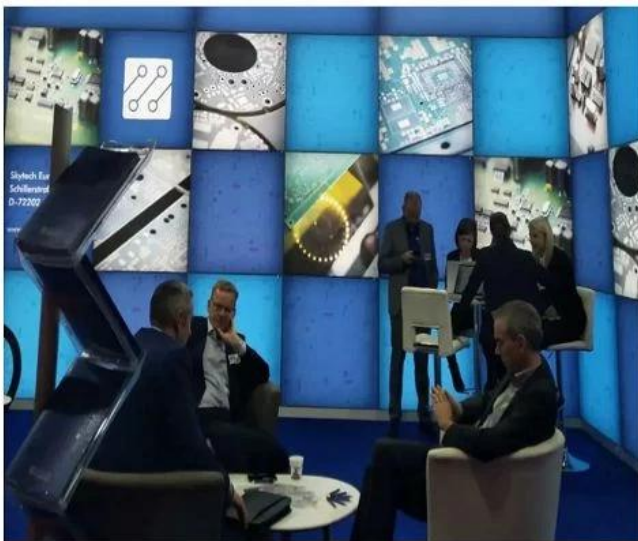
**O-LEADING CUSTOMER**

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

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Factory SMT

---



# HOW O-LEADING MAKE A PROJECT FOR YOU

Hardware Dispenser Application Not

## Automatic Dispenser Application Not

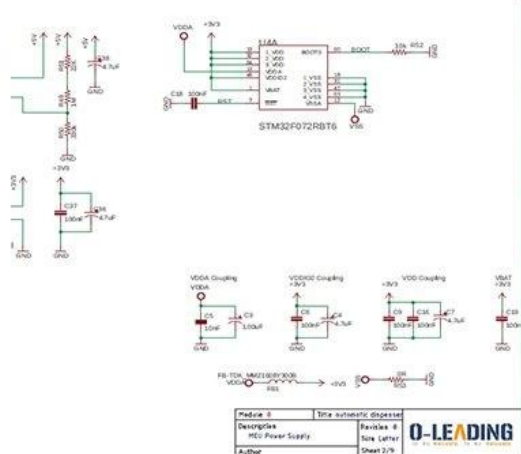
Voltage Table

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

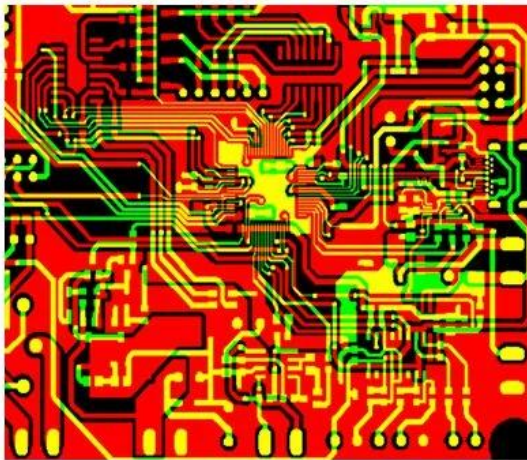
Wire Name	Description	DIO	Mode	Note
SMTN_TOF	Shutdown Time of flight sensor	Output	Logic '0' to shutdown	
I2C_SCL_TOF	I2C communication with time of flight sensor	I2C1_SCL		
I2C_SDA_TOF	I2C communication with thermopile sensor	I2C1_SDA		
I2C_SCL_IR	I2C communication with thermopile sensor	I2C2_SCL		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

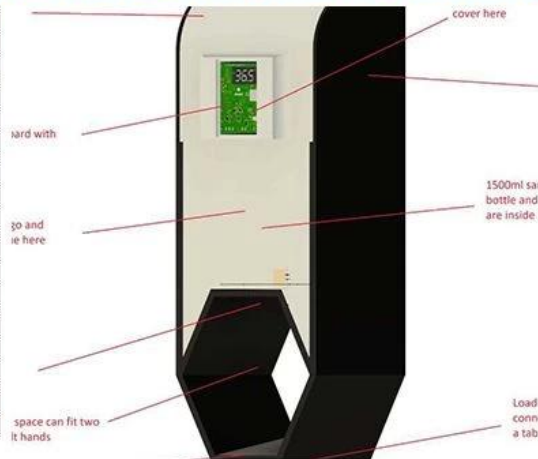


## HARDWARE schematics

## 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**<sup>®</sup>

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

<p>订单编号: 49335463501024670</p> <p>供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)</p> <p><b>High quality usb power pcb , pcba manufacturer</b> ★★★★★ 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!</p> <p><a href="#">回复该评论</a></p> <p><b>oem customized rohs pcb drawing schematic s...</b> ★★★★★ We received the boards, the quality is very good, the price is very reasonable, Fancy is very nice &amp; smart &amp; experienced, the logistics is super fast, I will come to see more in the future.</p> <p><a href="#">回复该评论</a></p>	<p>订单编号: 49922411001024670</p> <p>供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)</p> <p><b>High TG180 FR-4 Circuit HDI PCB 94V0 Board...</b> ★★★★★ 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.</p> <p><b>universal FR4 Multilayer PCB washing machine...</b> ★★★★★ 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.</p>
<p>订单编号: 49298271001024670</p> <p>供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)</p> <p><b>High TG180 FR-4 Circuit HDI PCB 94V0 Board...</b> ★★★★★ perfect product, perfect PCB supplier!</p> <p><a href="#">回复该评论</a></p> <p><b>oem customized rohs pcb drawing schematic s...</b> ★★★★★ Very good and professional PCB product as usual!</p> <p><a href="#">回复该评论</a></p> <p><b>Strip LED Aluminum FR-4 lighting PCB board 9...</b> ★★★★★ High quality, fast delivery, good service, competitive price, lucky and happy to purchase from O-leading!</p> <p><a href="#">回复该评论</a></p>	<p>订单编号: 49024962001024670</p> <p>United States 供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)</p> <p><b>High quality Keyboard pcb &amp; pcba Factory SMT...</b> ★★★★★ Top quality, it's the right choice to choose O-leading to make the PCB &amp; PCBA</p> <p><a href="#">回复该评论</a></p>
	<p>订单编号: 499862201024670</p> <p>供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)</p> <p><b>Professional Printed Circuit Board Manufactur...</b> ★★★★★ Very high quality PCB products, O-leading is the best PCB supplier that we have ever worked with.</p>
	<p>订单编号: 44068794501034670</p> <p>供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)</p> <p><b>High TG180 FR-4 Circuit HDI PCB 94V0 Board...</b> ★★★★★ We bought two batches, one by DHL, the other one by air, good quality and fast delivery!</p>

LISTEN TO **CUSTOMER VOICE**

<p>订单编号: 40903347501024670</p> <p>供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)</p> <p><b>Strip LED Aluminum FR-4 lighting PCB board 9...</b> ★★★★★ Very fast delivery! Fantastic, good job!!!</p> <p><b>Professional Printed Circuit Board Manufactur...</b> ★★★★★ 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!</p>	<p>订单编号: 36919647001024670</p> <p>供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)</p> <p><b>AML-S802 Quad-core Android embedded boar...</b> ★★★★★ Good products</p> <p><b>Fast delivery low cost pcb fabrication O-leadin...</b> ★★★★★ Good supplier</p>
<p><b>hot sale rigid-flexible PCB with 0.2mm BGA an...</b> ★★★★★ very professional supplier</p> <p><b>High Quality custom FPCB/Flex PCB/FPC/Flexi...</b> ★★★★★ Good product</p> <p><b>OEM ODM PCBA Bluetooth Wireless Marking G...</b> ★★★★★ high soldering quality</p> <p><b>Electronic parts haptic pcba Circuit Board asse...</b> ★★★★★ Very Good product</p>	<p><b>Lidar IR Sensor board pcba(H08R6x)</b> ★★★★★ perfect product</p> <p><b>Customized PCBA design PCB design</b> ★★★★★ perfect</p> <p><b>Audio Speaker and Headphone Jack (H07R3x)</b> ★★★★★ High quality, good</p>
<p>订单编号: 37378603001024670</p> <p>供应商服务: 非常满意 (5 stars) 按时发货: 非常满意 (5 stars)</p> <p><b>Raspberry pi 0 Zero Raspberry Pi Zero PI W ver...</b> ★★★★★ Fantastic products!!!</p> <p><b>double layer pcb with red S/M and LF-HASL su...</b> ★★★★★ Good!</p>	<p><b>half hole pcb, half hole pcb module, half hole m...</b> ★★★★★ Top half hole pcb supplier, very perfect goods</p> <p><b>High Quality custom FPCB/Flex PCB/FPC/Flexi...</b> ★★★★★ this rigid-flexible pcb quality is perfect!</p> <p><b>Electronic parts haptic pcba Circuit Board asse...</b> ★★★★★ Very satisfied with O-leading products and quality, especially their on-time delivery, fantastic!</p>

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.'

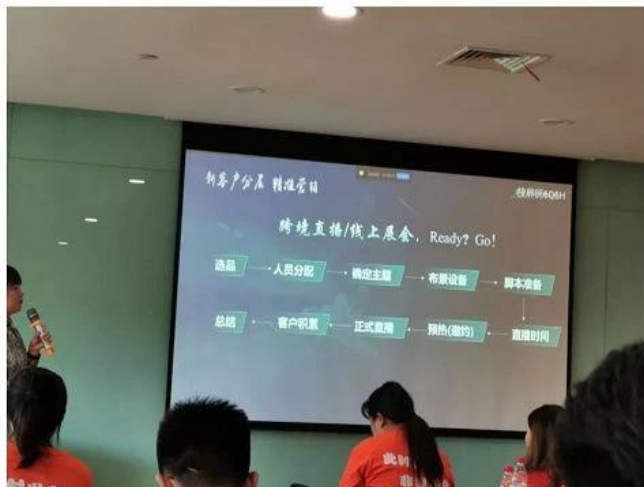
It's wonderful to have a beginner's mind

## 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**  
 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>											
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	
<b>Multilayer printed wiring boards.</b>											
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	*
<b>Single layer printed wiring boards.</b>											
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**

Layer Count	1 - 32
Weight	1 / 3oz-12oz
Min Thickness / Max Thickness	3.0mil / 3.0mil
Min Thickness / Max Thickness	4.0mil / 4.0mil
Max Aspect Ratio	10 : 1
Min Drill	0.2mm ~ 5.0mm
Min Drill (Micro)	635 * 1500mm
Min Drill (Micro)	400
Plated Thickness	+/- 3mil
Blind / Buried Via (All)	
Via Fill (Micro, Micro)	
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 Size	50x50mm
PCB Thickness	0.5mm ~ 4.5mm
Min Drill	0.5-4mm
Min Drill (Micro)	0201
Min Drill (Micro)	0603
Min Drill (Micro)	15mm
Min Drill (Micro)	0.3mm
Min Drill (Micro)	0.4mm
Min Drill (Micro)	+/- 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 00000000. 0000 0000 RMB 0000 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 00 0 0000 000000 00 000000 000000.

0000 000000 00 00000000 000000. 0000 0000 0000 0000 00 0 0000 0000 00000000 0000 00 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 及 PCBA 的製造過程是什麼?**

- 4.1 物料清單 BOM (Bill of Materials) : 物料清單, 物料清單 及 物料清單.
- 4.2 PCB Gerber 檔.
- 4.3 PCB 物料清單 及 PCBA 物料清單.
- 4.4 物料清單.
- 4.5 物料清單 物料清單 物料清單 物料清單.

**5. PCB 的製造過程是什麼?**

物料清單 → 物料清單 物料清單 → 物料清單 → 物料清單 AOI → 物料清單 → 物料清單 物料清單 → 物料清單 → PTH → 物料清單 → 物料清單 物料清單 → 物料清單 → 物料清單 → 物料清單 AOI → 物料清單 → 物料清單 → 物料清單 → 物料清單 → E / T → 物料清單.

**6. HDI 是什麼?**

物料清單 物料清單 物料清單 : 物料清單 物料清單, 物料清單, VCP 物料清單, 物料清單, LDI 物料清單.  
物料清單 物料清單 物料清單, 物料清單 物料清單 Mitsubishi Hitachi 物料清單, LDI 物料清單 Screen (物料清單)物料清單, 物料清單 物料清單 Hitachi 物料清單 物料清單 物料清單 物料清單 物料清單.

**7. 物料清單 物料清單 物料清單 O- 物料清單 物料清單?**

O-the 物料清單 ENIG, OSP, LF-HASL, 物料清單 (物料清單 / 物料清單), 物料清單, 物料清單 物料清單, 物料清單 物料清單, 物料清單 物料清單 物料清單 物料清單 物料清單 物料清單 物料清單.  
HDI 物料清單 物料清單 OSP, ENIG, OSP + ENIG, BGA PAD 物料清單 0.3mm 物料清單 物料清單 物料清單 物料清單 物料清單 OSP OSP + ENIG 物料清單 物料清單.

**8. FPC 物料清單 物料清單 物料清單? O-Leading 物料清單 SMT 物料清單 物料清單 物料清單?**

O-Leading 物料清單 物料清單 8 物料清單 FPC 物料清單 物料清單. 物料清單 物料清單 物料清單 2000mm \* 240mm 物料清單 物料清單. 物料清單 物料清單 "Flex Capability" 物料清單 物料清單.  
物料清單 物料清單 SMT 物料清單 物料清單 物料清單.

**9. PCB 物料清單 物料清單 物料清單 物料清單 物料清單?**

- 物料清單;
- 物料清單;
- 物料清單;
- 物料清單 物料清單;
- PCB 物料清單;
- 物料清單;
- 物料清單 物料清單.

**10. PCB, PWB 及 FPC 物料清單 物料清單 物料清單?**

PCB 物料清單 物料清單 物料清單.  
PWB Printed Wire Board 物料清單 物料清單 物料清單 物料清單 物料清單.  
FPC Flexible Printed Board 物料清單.

**11. PCB 物料清單 物料清單 物料清單 物料清單 物料清單?**

PCB 物料清單 物料清單 物料清單 物料清單 物料清單.  
物料清單 Tg 物料清單 物料清單 物料清單.  
物料清單 CTE 物料清單 物料清單 物料清單.  
物料清單 物料清單 : 物料清單 PCB 物料清單 物料清單 50 物料清單 物料清單 250 °C 物料清單 物料清單 物料清單.  
物料清單 物料清單; 物料清單 物料清單 物料清單 PCB 物料清單 物料清單 / 物料清單 物料清單 物料清單. 物料清單 PCB 物料清單 物料清單 物料清單 物料清單 物料清單; 物料清單 物料清單 物料清單 物料清單 物料清單 物料清單 物料清單.

**12. O-leading rigid-flex PCB 物料清單 物料清單?**

O-leading rigid-flex PCB FPC PCB 物料清單 物料清單 物料清單 物料清單 物料清單 物料清單. 物料清單 物料清單 物料清單 物料清單 物料清單 物料清單 物料清單.

**13. 物料清單 物料清單 物料清單?**

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