

O-leading 00 00 000000

O-Leading PCB 00, PCB 00 0 PCB 000 000 EMS 0000 0 00 000 000000 00 000000 (00 PCB 0000 PCBA 00 00), 000 HDI PCBs, 00 PCBs, Rigid-Flexible PCBs 0000 00 00 0 PCB 000 000 000000. 000 00 00 000 000 0 00 0 00 0000 000 0 0000.

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O-leading 000 00000 00 00 00 000 000 0000 0000 PCB 0 PCBA 0 00 00000 000000 0000 00 0000 0000 0000 0 00 0000 00 0 0000.

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O-LEADING
To Be Reliable, To Be Valuable

WE ALWAYS PROVIDE YOU

BEST HIGH DENSITY INTERCONNECT PCB

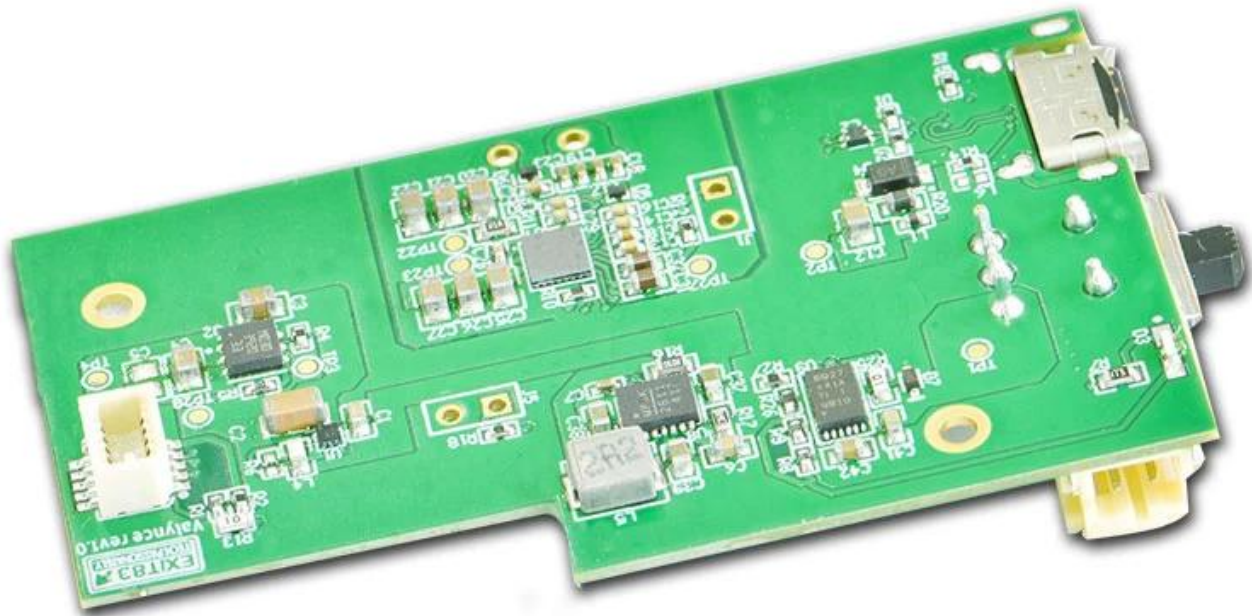
WE ALWAYS PROVIDE YOU

BEST RIGID-FLEXIBLE CIRCUIT

TOP QUALITY PCBA

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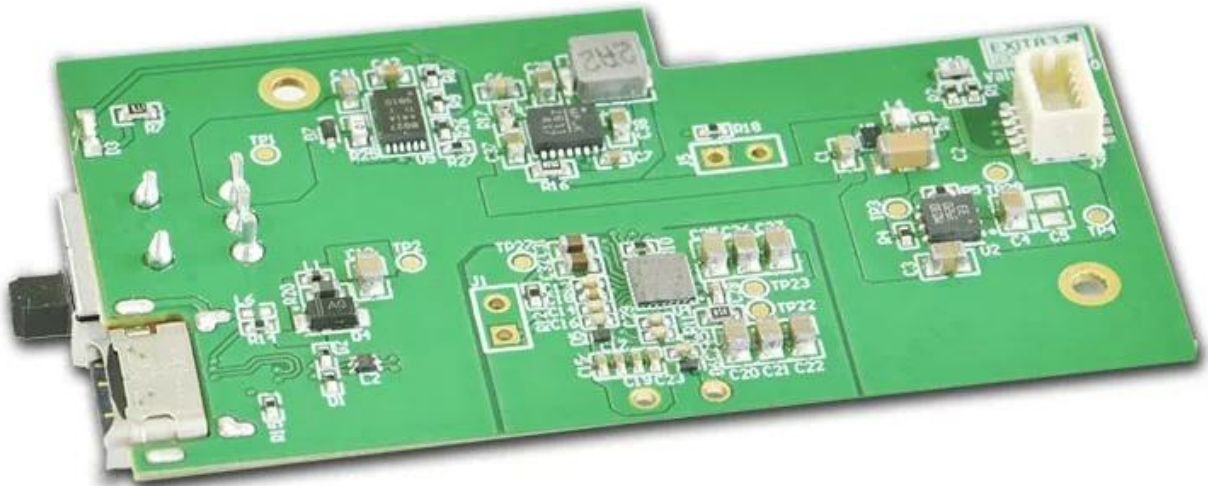


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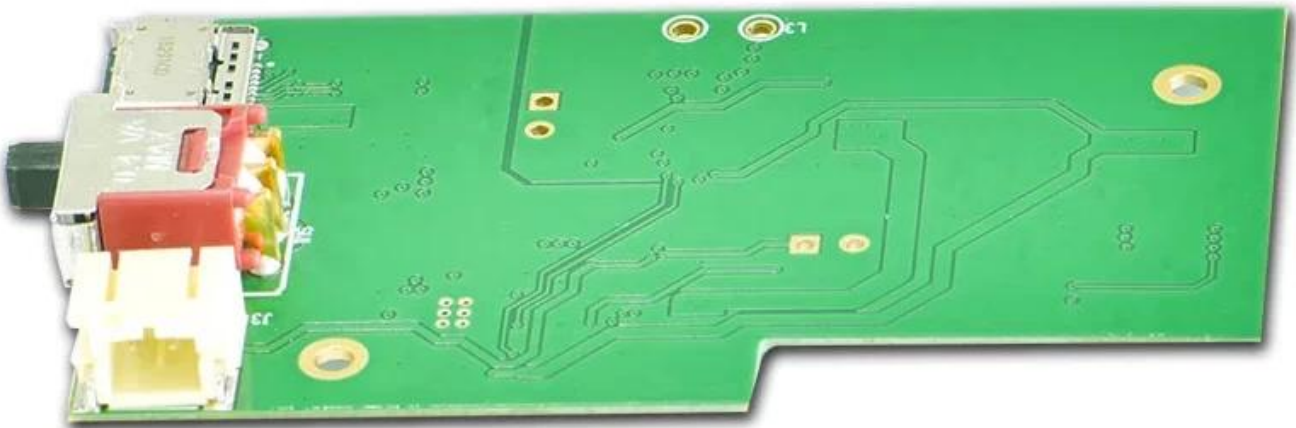


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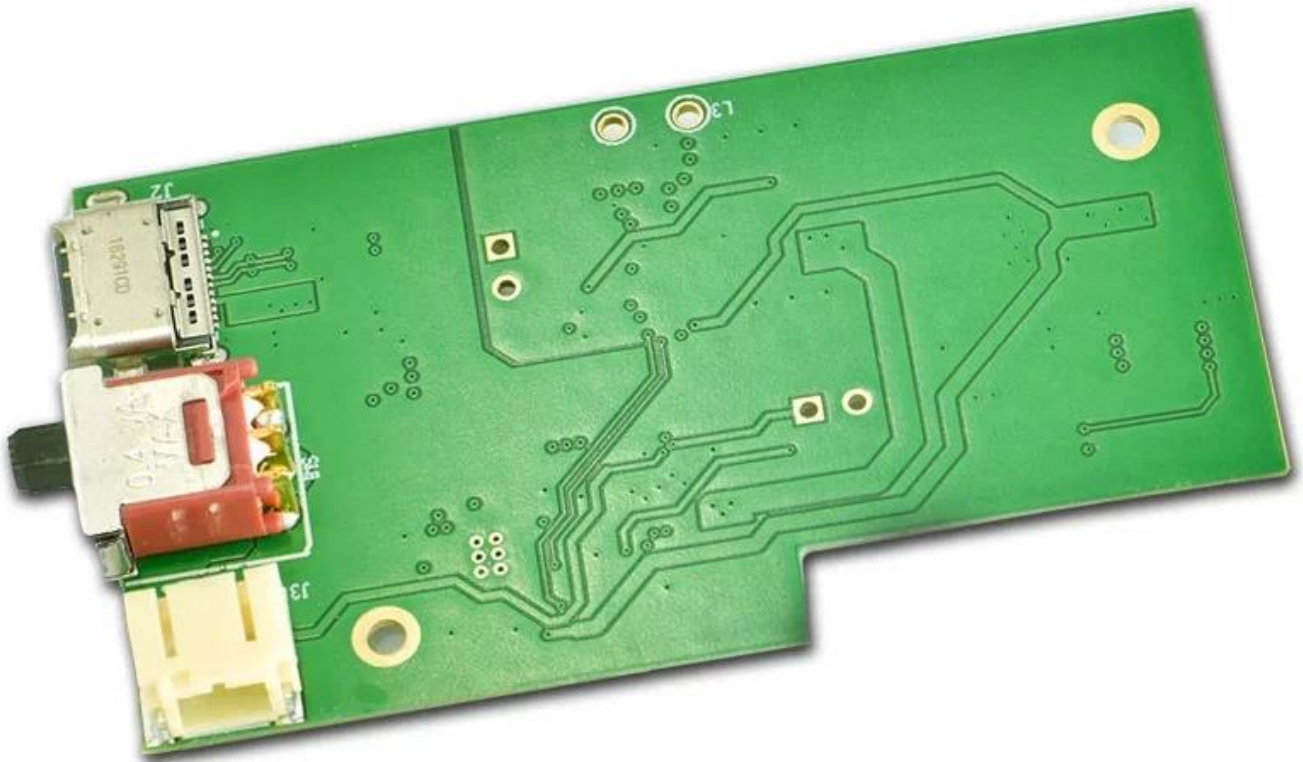


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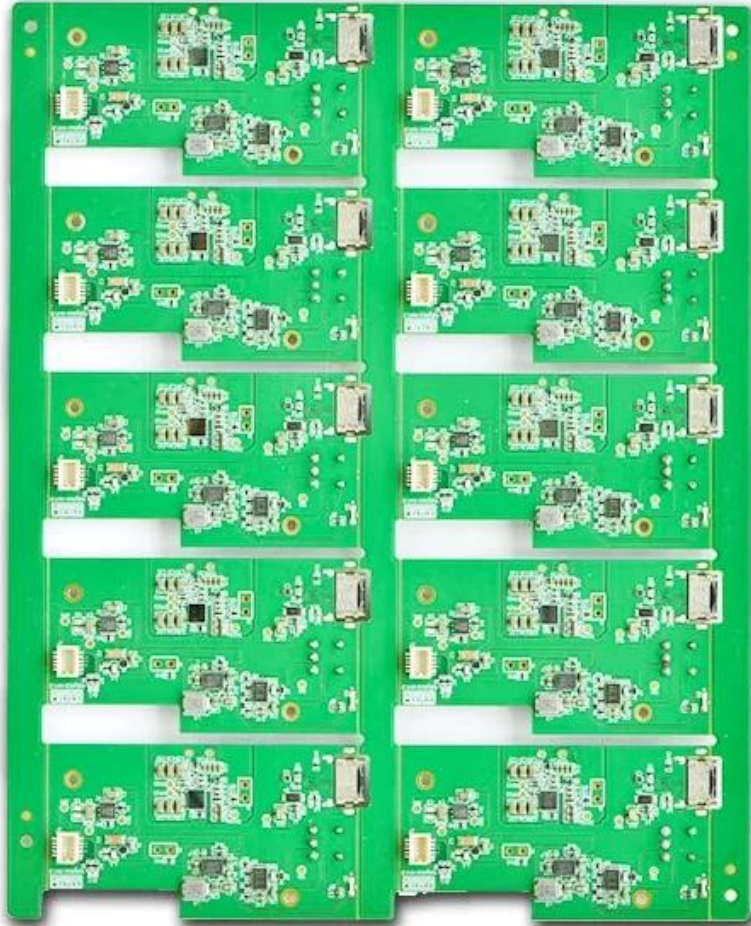


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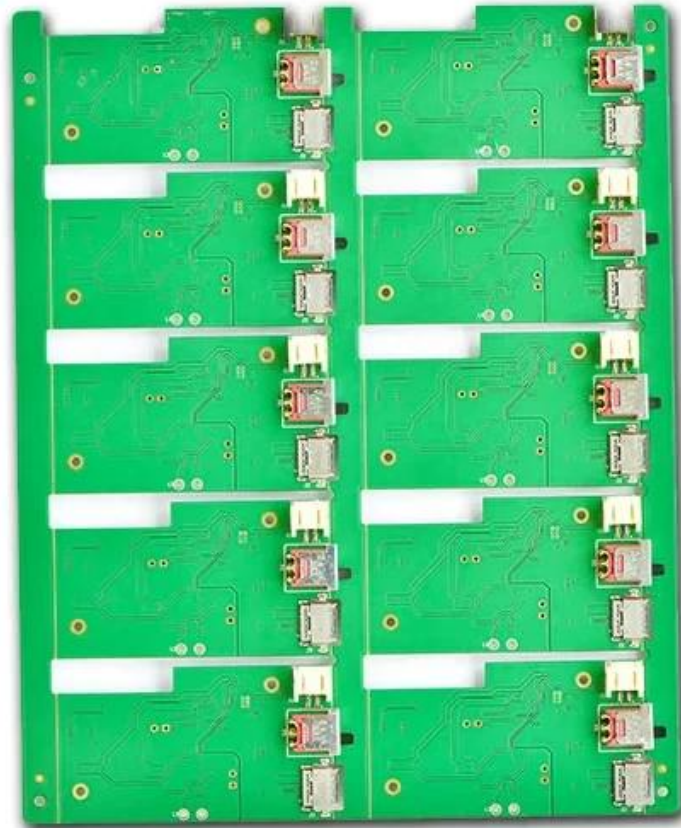


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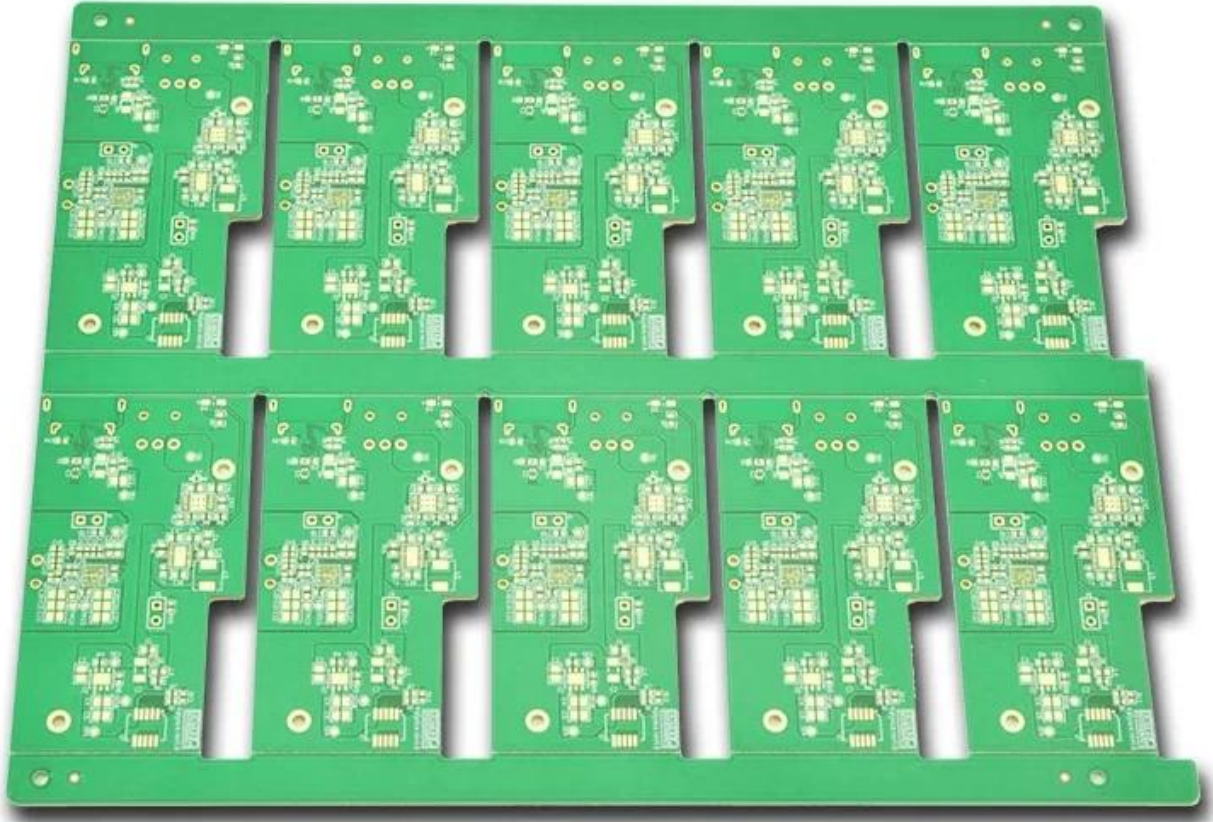


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TOP QUALITY PCBA

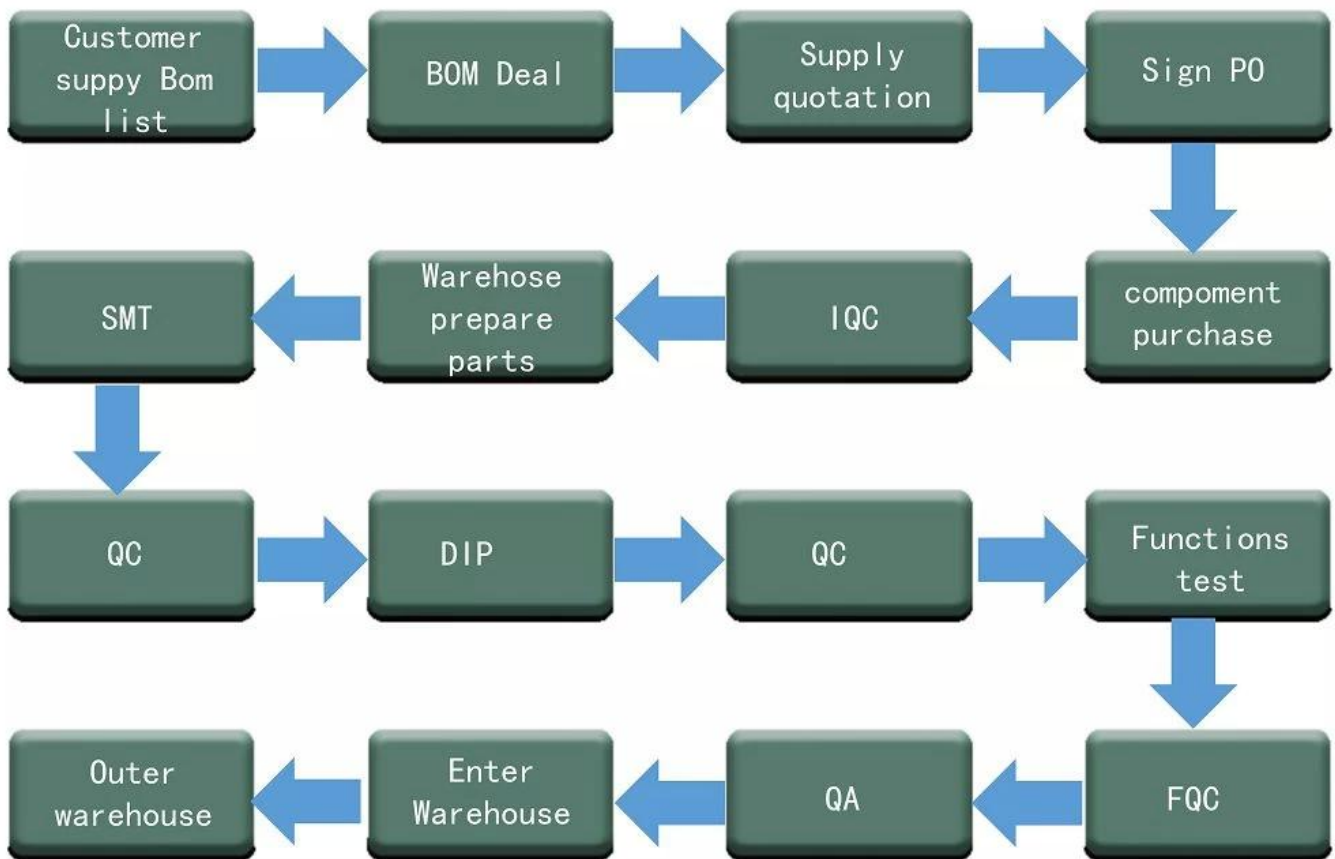
O-LEADING

To Be **Reliable**, To Be **Valuable**

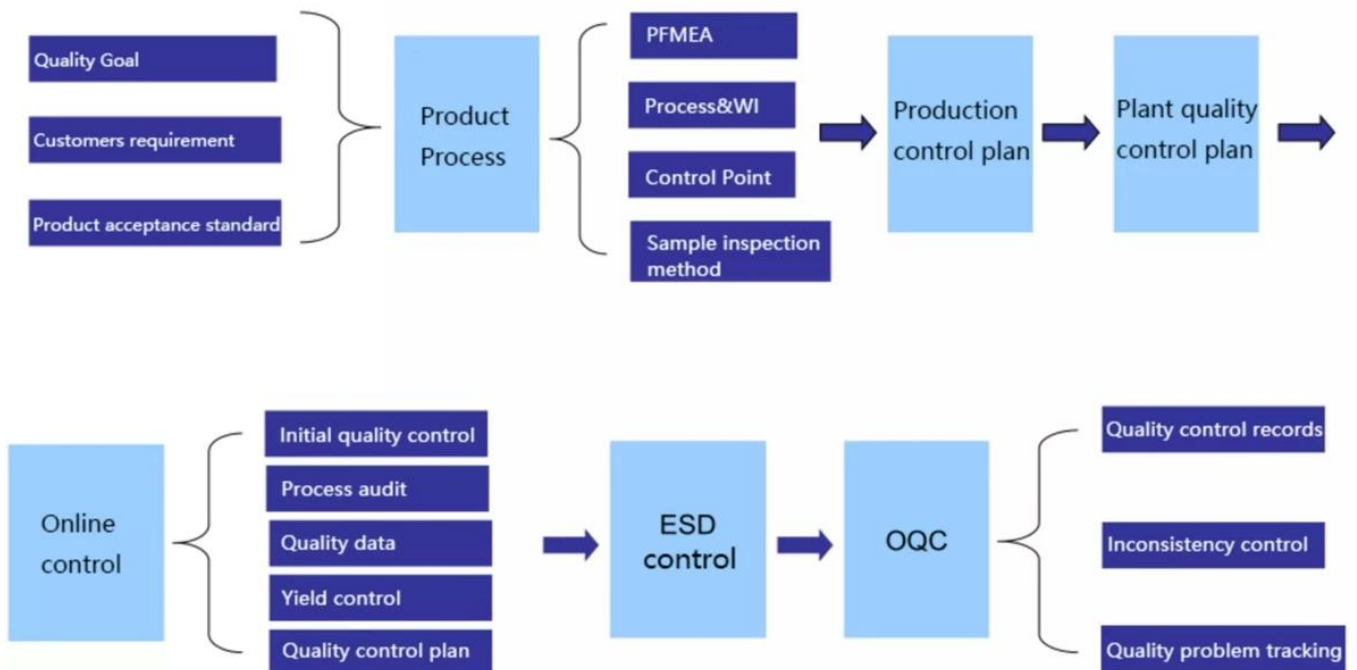


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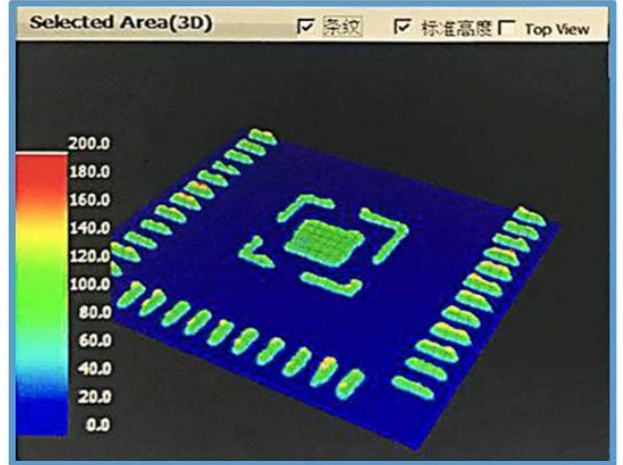
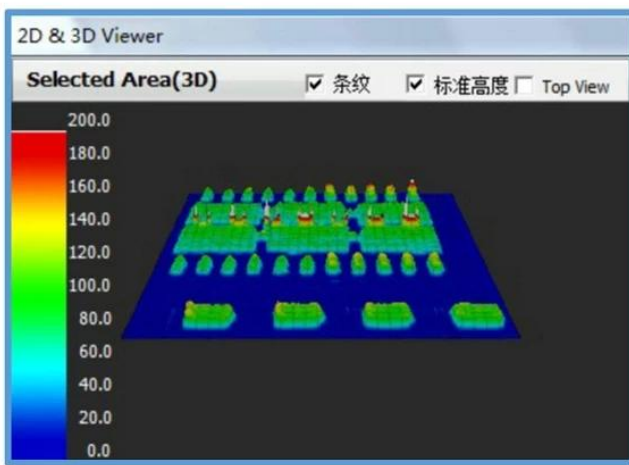
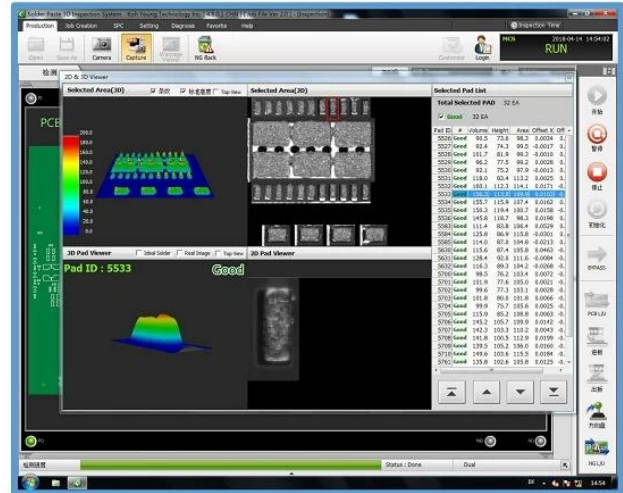
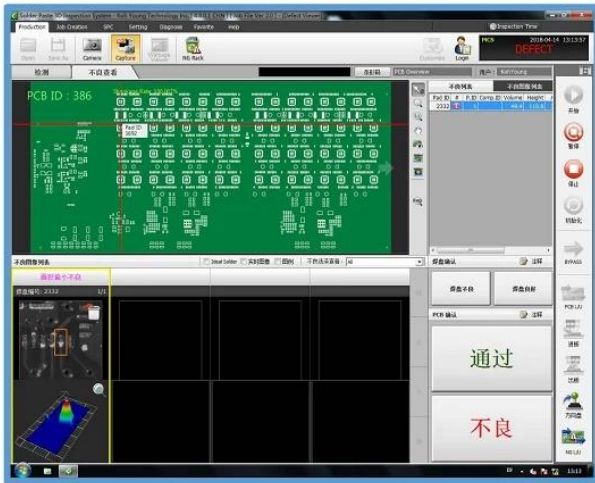
Process Flow Chart



Quality Control Process



KOHYOUNG solder pasteig check SPI Figure 3 d imaging



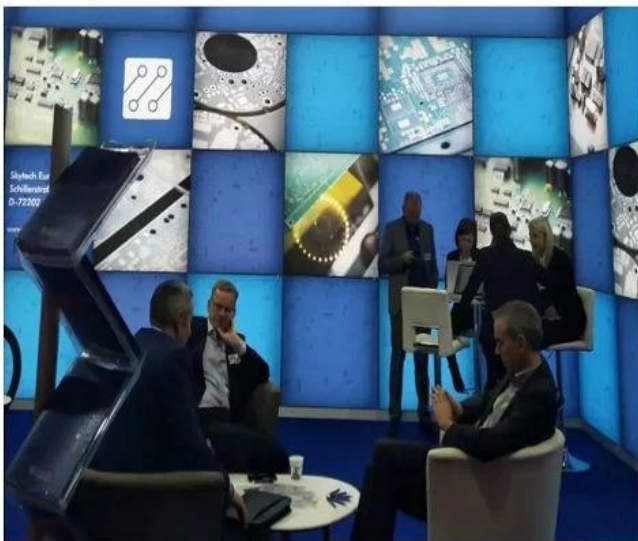
O-LEADING CUSTOMER

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

Factory SMT



HOW O-LEADING MAKE A PROJECT FOR YOU

Hardware Dispenser Application Not

Automatic Dispenser Application Not

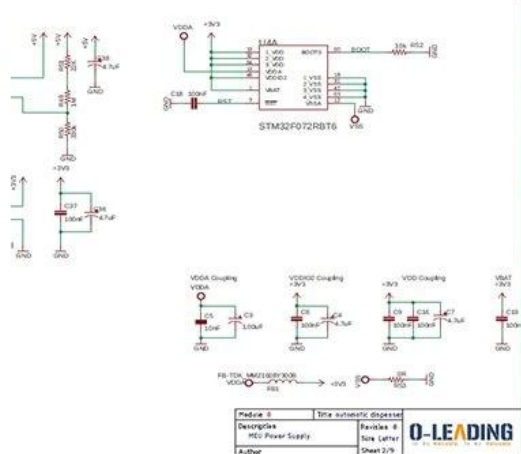
Voltage Table

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

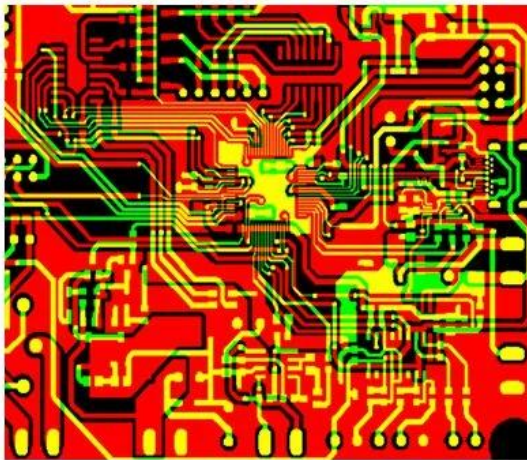
Wire Name	Description	DIO	Mode	Note
SMTN_TOF	Shutdown Time of flight sensor	Output		Logic '0' to shutdown
I2C_SCL_TOF	I2C communication with time of flight sensor	I2C1_SCL		
I2C_SDA_TOF	I2C communication with thermopile sensor	I2C1_SDA		
I2C_SCL_IR	I2C communication with thermopile sensor	I2C2_SCL		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

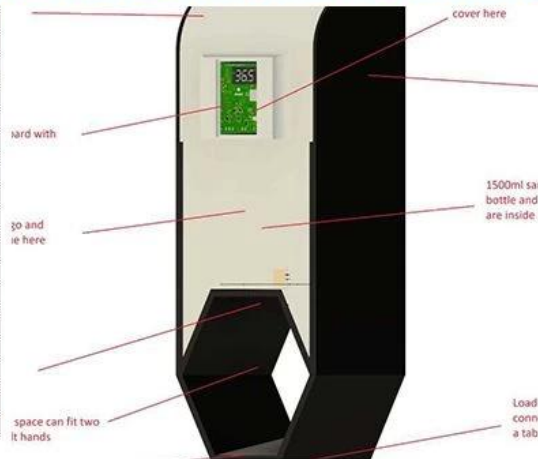
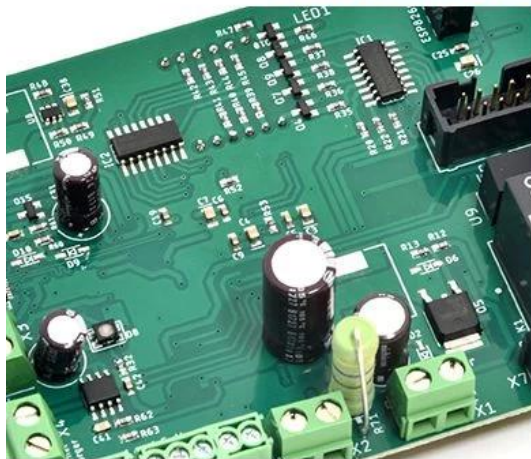


HARDWARE schematics

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
1	100k	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

<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>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!</p> <p>回复该评论</p> <p>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.</p> <p>回复该评论</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>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.</p> <p>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.</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>High TG180 FR-4 Circuit HDI PCB 94V0 Board... ★★★★★ perfect product, perfect PCB supplier!</p> <p>回复该评论</p> <p>oem customized rohs pcb drawing schematic s... ★★★★★ Very good and professional PCB product as usual!</p> <p>回复该评论</p> <p>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!</p> <p>回复该评论</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>High quality Keyboard pcb & pcba Factory SMT... ★★★★★ Top quality, it's the right choice to choose O-leading to make the PCB & PCBA</p> <p>回复该评论</p>
<p>订单编号: 4093347501024670</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>Strip LED Aluminum FR-4 lighting PCB board 9... ★★★★★ Very fast delivery! Fantastic, good job!!!</p> <p>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!</p>	<p>订单编号: 4093862201024670</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>Professional Printed Circuit Board Manufactur... ★★★★★ 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>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!</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>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!</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>Strip LED Aluminum FR-4 lighting PCB board 9... ★★★★★ Very fast delivery! Fantastic, good job!!!</p> <p>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!</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>AML-S802 Quad-core Android embedded boar... ★★★★★ Good products</p> <p>Fast delivery low cost pcb fabrication O-leadin... ★★★★★ Good supplier</p>
<p>hot sale rigid-flexible PCB with 0.2mm BGA an... ★★★★★ very professional supplier</p> <p>High Quality custom FPCB/Flex PCB/FPC/Flexi... ★★★★★ Good product</p> <p>OEM ODM PCBA Bluetooth Wireless Marking G... ★★★★★ high soldering quality</p> <p>Electronic parts haptic pcba Circuit Board asse... ★★★★★ Very Good product</p>	<p>Lidar IR Sensor board pcba(H08R6x) ★★★★★ perfect product</p> <p>Customized PCBA design PCB design ★★★★★ perfect</p> <p>Audio Speaker and Headphone Jack (H07R3x) ★★★★★ 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>Raspberry pi 0 Zero Raspberry Pi Zero PI W ver... ★★★★★ Fantastic products!!!</p> <p>double layer pcb with red S/M and LF-HASL su... ★★★★★ Good!</p>	<p>half hole pcb, half hole pcb module, half hole m... ★★★★★ Top half hole pcb supplier, very perfect goods</p> <p>High Quality custom FPCB/Flex PCB/FPC/Flexi... ★★★★★ this rigid-flexible pcb quality is perfect!</p> <p>Electronic parts haptic pcba Circuit Board asse... ★★★★★ 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.'

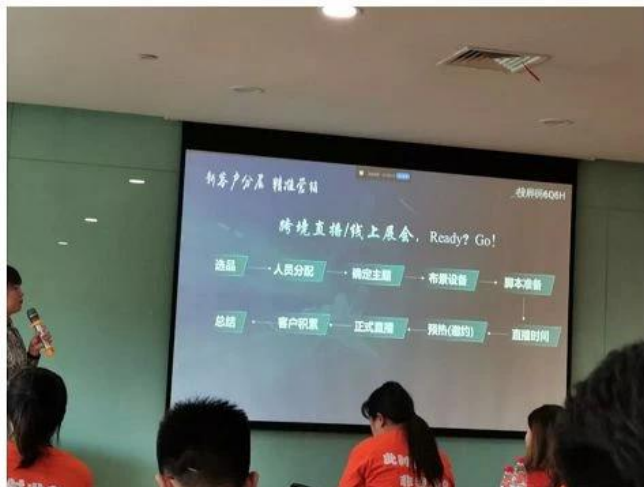
It's wonderful to have a beginner's mind

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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Attention: To check the authenticity of testing SGS-CSTC Report & certificate, please contact us at telephone: (86-755) 8307 1443 or website: CN.sgs.com

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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
 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	
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**

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 (ABV)	
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?

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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?

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

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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?

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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 "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?

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- 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 物料清單 Printed Wire Board 物料清單 物料清單 物料清單 物料清單 物料清單.
FPC 物料清單 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.
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12. O-leading rigid-flex PCB 物料清單 物料清單?

O-leading rigid-flex PCB 物料清單 FPC 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 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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