

# 專業 PCB 製造商 O-LEADING

O-Leading 提供專業的 PCB 製造服務。我們擁有先進的設備和技術，為客戶提供高品質、高可靠性的 PCB 產品。我們的服務範圍包括：PCB 設計、PCBA 組裝、PCBA 測試、PCBA 維修等。我們擁有豐富的行業經驗，為客戶提供全面的 PCB 解決方案。

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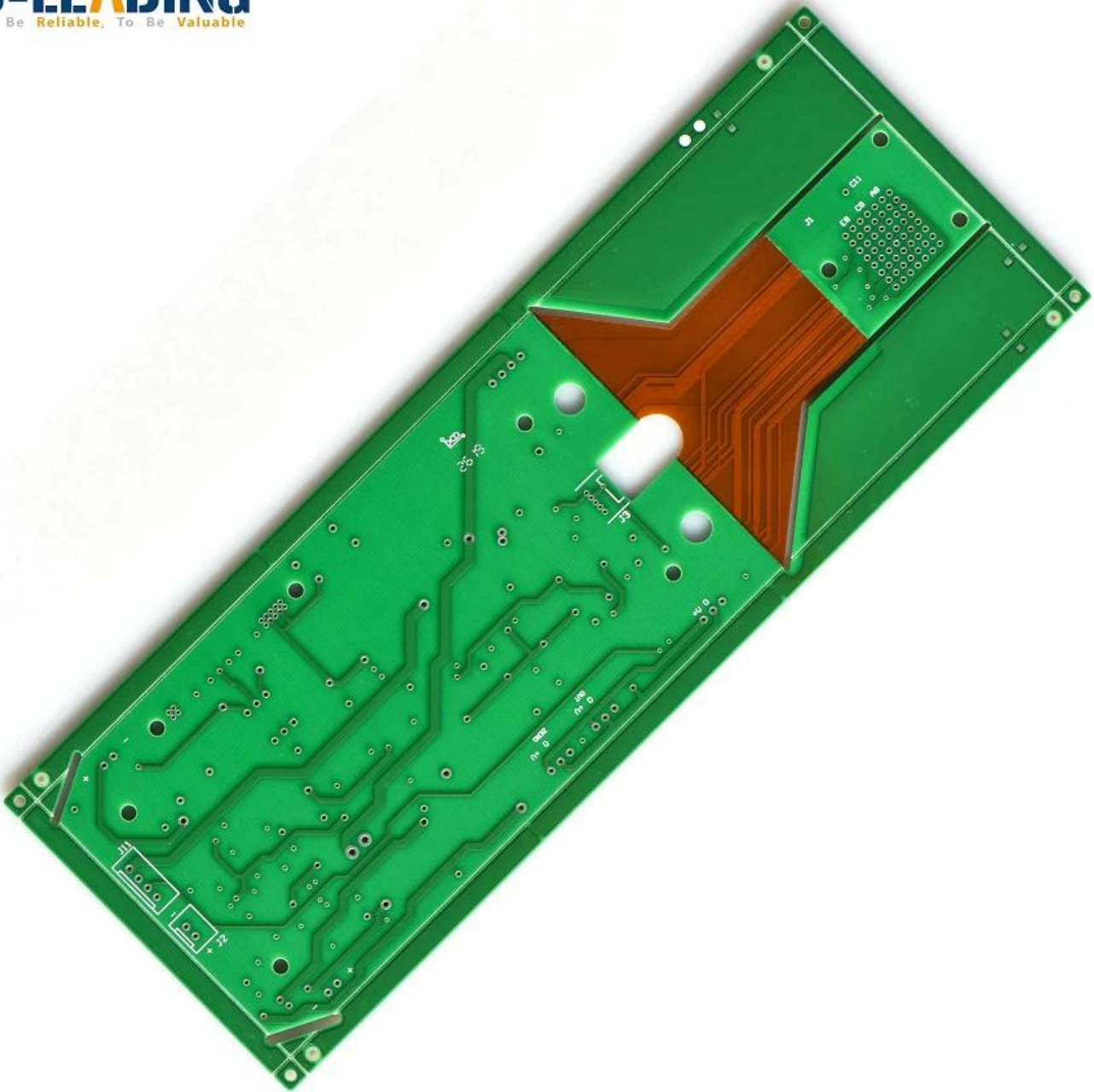
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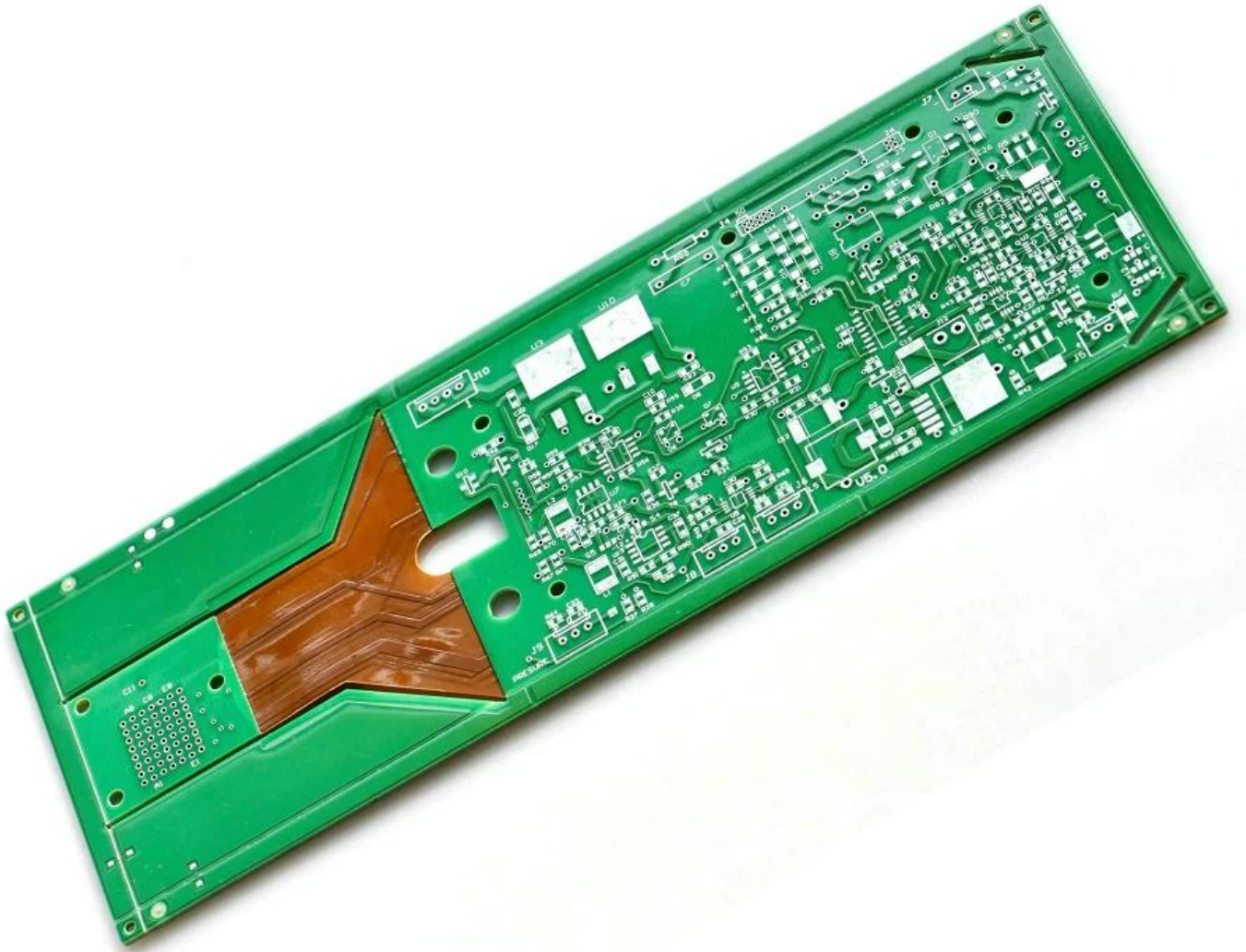
## 專業服務 專業製造













# Production Process

18 years experience in one-stop PCB and PCBA, we can make your idea come true,



CONSUMER ELECTRONICS

AUTOMOTIVE ELECTRONICS

INDUSTRIAL CONTROL

INTELLECTUALIZED HOUSEHOLD CONTROL

OTHER



30%  
CONSUMER ELECTRONICS



18%  
INTELLECTUALIZED HOUSEHOLD CONTROL

20%  
AUTOMOTIVE ELECTRONICS



12%  
OTHER



20%  
INDUSTRIAL CONTROL



فريقنا





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Factory PCB

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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

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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**

الشهادات





**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)		mm(in)	C	sec	C	Class	UL796	DSR	I
<b>Multilayer (mass laminate) printed wiring boards.</b>												
<b>O-LEADING-401</b>	0.1 (0.004)	0.3 (0.012)	34 (1.34)	DS	12.7 (0.5)	260	10	130	V-0	-	-	
<b>O-LEADING-407</b>	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>												
<b>O-LEADING-408</b>	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>												
<b>O-LEADING-002</b>	0.38 (0.015)	1.14 (0.045)	34 (1.34)	SS	19.1 (0.8)	260	10	105	V-0	All	-	
<b>O-LEADING-003</b>	0.38 (0.015)	1.14 (0.045)	34 (1.34)	SS	19.1 (0.8)	260	10	130	V-0	▲	-	
<b>O-LEADING-033</b>	0.15 (0.006)	0.3 (0.012)	34 (1.34)	SS	25.4 (1.0)	260	10	120	V-0	All	-	
<b>O-LEADING-205</b>	0.1 (0.004)	0.3 (0.012)	34 (1.34)	DS	69.6 (2.7)	260	10	130	V-0	All	-	
<b>O-LEADING-206</b>	0.15 (0.006)	0.33 (0.013)	17 (0.67)	DS	69.6 (2.7)	260	10	130	V-0	All	-	
<b>O-LEADING-D01</b>	0.14 (0.006)	0.15 (0.006)	33 (1.30)	DS	25.4 (1.0)	260	10	130	V-0	All	*	
<b>O-LEADING-S01</b>	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

<b>O-LEADING-S02</b>	0.2 (0.008)	0.2 (0.008)	17 (0.67)	SS	25.4 (1.0)	260	4	130	HB	▲	*	
<b>O-LEADING-S03</b>	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	
القدرة العملية	1 32- 32
القدرة العملية	1 / 3oz-12oz
القدرة العملية / القدرة العملية	3.0 3.0 / 3.0
القدرة العملية / القدرة العملية	4.0 4.0 / 4.0
القدرة العملية	10: 1
القدرة العملية	0.2 5.0 - 5.0
القدرة العملية (القدرة العملية)	635 * 1500
القدرة العملية	4
القدرة العملية Plated	+/- 3
Blind / Buried Vias (All)	
القدرة العملية (القدرة العملية)	
القدرة العملية	FR-4 FR-4hg Tg. Rogers
القدرة العملية	HASL OSP ENIG HAL-LF Immersion silver

## القدرة العملية SMT

القدرة العملية	FR-4 CEM-1 CEM-3
القدرة العملية	510x460
القدرة العملية	50x50
القدرة العملية	0.5 4.5 - 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

1.1 اختبار O-Leading هو اختبار يتم إجراؤه على العينات المأخوذة من الإنتاج اليومي للتحقق من جودة المنتج النهائي. يتم إجراء هذا الاختبار وفقًا للمواصفة 1.1 ISO 9001: 2008.

1.2 يتم إجراء اختبار O-Leading على العينات المأخوذة من الإنتاج اليومي للتحقق من جودة المنتج النهائي. يتم إجراء هذا الاختبار وفقًا للمواصفة 1.3 AOI (اختبار الرؤية الآلية) للتحقق من جودة المنتج النهائي. يتم إجراء هذا الاختبار وفقًا للمواصفة 1.4.

1.5 يتم إجراء اختبار O-Leading على العينات المأخوذة من الإنتاج اليومي للتحقق من جودة المنتج النهائي. يتم إجراء هذا الاختبار وفقًا للمواصفة 1.5.

## 2 O-Leading

2 O-Leading هو اختبار يتم إجراؤه على العينات المأخوذة من الإنتاج اليومي للتحقق من جودة المنتج النهائي. يتم إجراء هذا الاختبار وفقًا للمواصفة 2 O-Leading للتحقق من جودة المنتج النهائي. يتم إجراء هذا الاختبار وفقًا للمواصفة 2 O-Leading للتحقق من جودة المنتج النهائي. يتم إجراء هذا الاختبار وفقًا للمواصفة 2 O-Leading للتحقق من جودة المنتج النهائي.

2 O-Leading هو اختبار يتم إجراؤه على العينات المأخوذة من الإنتاج اليومي للتحقق من جودة المنتج النهائي. يتم إجراء هذا الاختبار وفقًا للمواصفة 2 O-Leading للتحقق من جودة المنتج النهائي. يتم إجراء هذا الاختبار وفقًا للمواصفة 2 O-Leading للتحقق من جودة المنتج النهائي.



**.3 O-Leading**

FR4 Rogers Arlon Telfon / PI

**.4**

4.1 4.2 PCB Gerber.

4.3 PCB PCBA.

4.4

4.5

**.5**

AOI PTH AOI E / T

**.6 HDI**

VCP LDI

Screen Hitachi

**.7**

ENIG OSP LF-HASL OSP ENIG + ENIG HDI OSP OSP + ENIG BGA PAD 0.3

**.8 FPC O-Leading SMT**

2000mm \* 240mm "Flex Flexability" SMT

**- 9**

**.10 PCB PWB FPC**

PWB Wire Wire Board FPC

**.11 PCB**

Tg CTE 250

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POLAR INSTRUMENTS.

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