



**O-LEADING**  
To Be **Reliable**, To Be **Valuable**

**Fast delivery and top quality**  
**Rigid Flexible PCB**

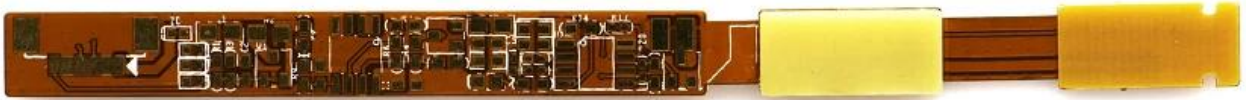


**O-LEADING**  
To Be **Reliable**, To Be **Valuable**



# O-LEADING

To Be Reliable, To Be Valuable



# O-LEADING

To Be Reliable, To Be Valuable





# 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



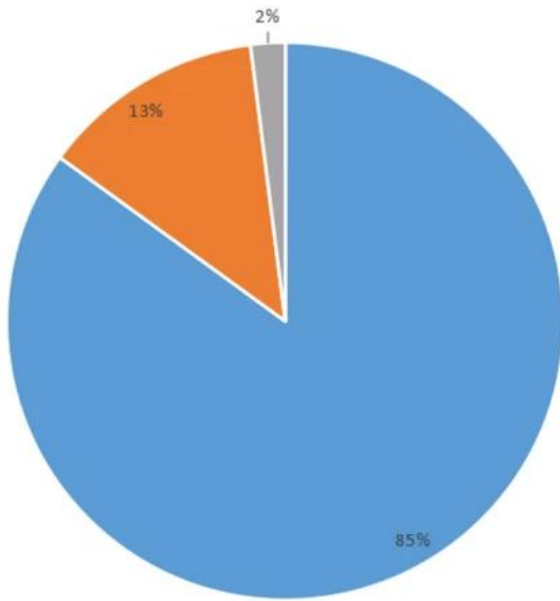
**12%**  
OTHER



**20%**  
INDUSTRIAL CONTROL



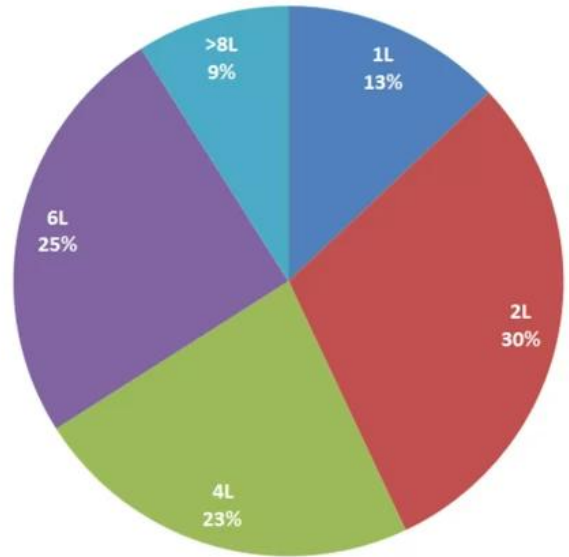
## Product types



■ FR-4 PCB ■ MC PCB ■ rigid-flexible PCB

## Product layers

■ 1L ■ 2L ■ 4L ■ 6L ■ >8L



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)		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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# القدرة العملية

القدرة العملية	
القدرة العملية	1 32
القدرة العملية	1 / 3oz-12oz
القدرة العملية / القدرة العملية	3.0 3.0 /
القدرة العملية / القدرة العملية	4.0 4.0 /
القدرة العملية	10: 1
القدرة العملية	0.2 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 القدرة العملية القدرة العملية القدرة العملية القدرة العملية
القدرة العملية	HASL OSP ENIG HAL-LF Immersion silver Immersion القدرة العملية القدرة العملية

القدرة العملية SMT	
القدرة العملية	FR-4 CEM-1 CEM-3 القدرة العملية
القدرة العملية	510x460
القدرة العملية	50x50
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 في جميع الحالات حيثما كان ذلك ممكناً وفقاً للمواصفات القياسية ISO 9001: 2008. 1.1  
 1.2 يتم اختبار O-Leading في جميع الحالات حيثما كان ذلك ممكناً وفقاً للمواصفات القياسية ISO 9001: 2008. 1.2  
 1.3 يتم اختبار O-Leading في جميع الحالات حيثما كان ذلك ممكناً وفقاً للمواصفات القياسية ISO 9001: 2008. 1.3  
 1.4 يتم اختبار O-Leading في جميع الحالات حيثما كان ذلك ممكناً وفقاً للمواصفات القياسية ISO 9001: 2008. 1.4  
 1.5 يتم اختبار O-Leading في جميع الحالات حيثما كان ذلك ممكناً وفقاً للمواصفات القياسية ISO 9001: 2008. 1.5

## 2 O-Leading

يتم اختبار O-Leading في جميع الحالات حيثما كان ذلك ممكناً وفقاً للمواصفات القياسية ISO 9001: 2008. 2  
 يتم اختبار O-Leading في جميع الحالات حيثما كان ذلك ممكناً وفقاً للمواصفات القياسية ISO 9001: 2008. 2  
 يتم اختبار O-Leading في جميع الحالات حيثما كان ذلك ممكناً وفقاً للمواصفات القياسية ISO 9001: 2008. 2  
 يتم اختبار O-Leading في جميع الحالات حيثما كان ذلك ممكناً وفقاً للمواصفات القياسية ISO 9001: 2008. 2  
 يتم اختبار O-Leading في جميع الحالات حيثما كان ذلك ممكناً وفقاً للمواصفات القياسية ISO 9001: 2008. 2

**.3 O-Leading**

FR4 TG / 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 .

Mitsubishi Hitachi LDI Screen Hitachi .

**.7**

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

**.8 FPC O-Leading SMT**

8 2000mm \* 240mm "Flex Flexability" SMT .

**- 9**

**.10 PCB PWB FPC**

PWB FPC .

**.11 PCB**

Tg CTE 250 °C



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0000000 000000 000000000 000000 000000 00 00 **.12 ridid-flex** 00000000 000000 000000000 000000  
000000 PCB 00 0000000 000000 O-00 00 00000000 0000 000000000 FPC 0 PCB 0 000 00 0000000000 00000 00000  
0000000000 000000000 000000 00 000000 00 00000 0 000 0000000 000000 000000 00000 00000 000000000 0000 .00000000 0000000000  
.00000000 00000000 00000000 0000 00000000 0 00000000

00000000000 000000 00000 0000 **.13**  
0000000000 000000 0000 00000000000 0000000000 00000000 00000 000000 0000 0 SI6000 soft 00000000 CITS 500s 00  
POLAR INSTRUMENTS.  
0000000000 000000 00000 00000000 00000000 00000 0000000000 00000000 000000 000000 00000000 0000000 00000.