

O-Leading 00 00 00000

O-Lead PCB, PCB, PCB, PCB (PCBA) EMS, HDI PCB, Rigid-Flexible PCB

[illegible][illegible]

በቅድመ 10 ዓመት በሙሉ የሚኖር የሆነውን PCB ማስተካከል፡፡ በዚያ - ጊዜ፣ የሚኖር የሆነውን PCB፣ የሚኖር የሆነውን MCPCB.We 48-96 ሰዓት HRS በየ
የሰዓት 4-8 ሰዓት 4-8 ሰዓት በየሰዓት የሚኖር የሆነውን በ 1 ዓመት መለኪያ፡፡

00 0000 00 00 .025 AVG, .020 min .. 0000 0000 00 0 0000.

[illegible]

11 12

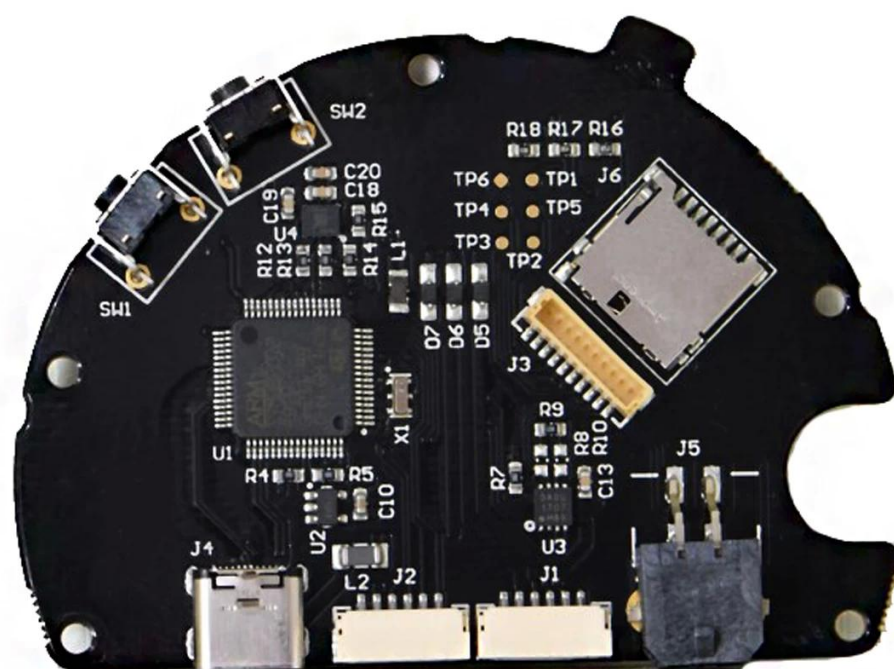
11 11 11

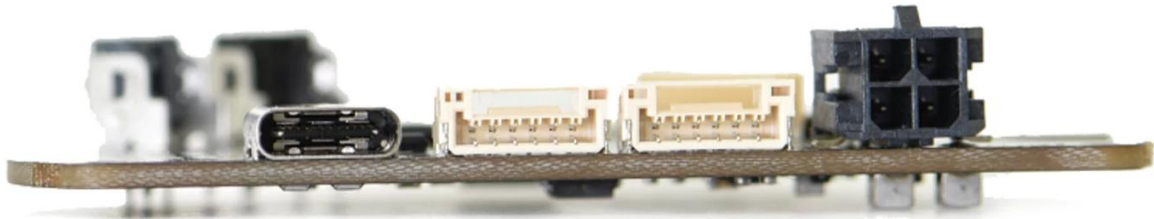
工厂	Guang Dong, China (中国)	工厂	o-leading.
材料	FR-4, 铝基板	材料	0.5oz-5oz.
厚度	0.2mm.	厚度	0.2mm.
表面处理	喷锡, OSP, 沉金 HASL.	表面处理	0.1-5mm.
光源	LED, 贴片LED, 铝基板, 铝基板	光源	铝基板 贴片 PCB
认证	ISO9001, UL, RoHS, SGS.	Q / CTN :	10pcs-100pcs.
重量	0.01kg -5kg.	MOQ :	10pcs.
公差	±0.1, ±0.2, ±0.3, ±0.4	公差	0.2mm.
材料	铝基板 PCB 铝基板 PCBA 铝基板	材料	\$ 0.1- \$ 10.
design 铝	铝基板 铝	铝	0.01m3-10m3.

11/11

16 16 OEM PCB 16 16

項目	2014 年		2015 ~ 2016.		2017 ~ 2018.	
	10月	11月	10月	11月	10月	11月
総計	32.	42.	38.	44.	42.	48.
10月 / 11月 (μm)	50/50.	40/45.	40/45.	40/40.	35/40.	35/35.
Min Drill Hole. 径 (mm)	0.15.	0.10.	0.15.	0.10.	0.15.	0.10.
10月 11月	14 : 1.	16 : 1.	16 : 1.	18 : 1.	18 : 1.	20 : 1.
N + C + N.	4 + C + 4.	5 + C + 5.	5 + C + 5.	6 + C + 6.	5 + C + 5.	6 + C + 6.
10月 11月 10月 11月	5 + 2 + 5.	6 + 2 + 6.	5 + 2 + 5.	6 + 2 + 6.	5 + 2 + 5.	6 + 2 + 6.





A horizontal yellow bar represents a 1D lattice with 10 sites. Below the bar, there are 10 vertical rectangles. The first 6 rectangles are blue with black outlines, and the last 4 are yellow with black outlines. A blue line connects the bottom of the first 6 rectangles.





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







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 Fan
Approved Signatory



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No. SZXEC1900530401

Date: 30 Mar 2019

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Test Results :

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	SZX19-005304.001	Green™PCB

Remarks :

(1) $1 \text{ mg/kg} = 1 \text{ ppm} = 0.0001\%$

(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	Q27
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
	Min	Min			Area	Solder	Oper	Flame	UL796		
	mm(in)	mm(in)			Diam	Limits	Temp	Class	DSR		
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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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



PCB 材料 規格

層數 : 1Layer-32layer.
 銅厚 : 1 / 3oz-12oz.
 線寬 / 線距 : 3.0mil / 3.0mil
 線寬 / 線距 : 4.0mil / 4.0mil
 孔徑 : 10 : 1.
 厚度 : 0.2mm-5.0mm.
 板面尺寸 (mm) : 635 * 1500mm
 最小線寬 : 4mil.
 公差 : +/- 3mil.
 BLIND / 盲孔 (All 孔) : □
 VIA 通孔 (通孔, 盲孔) : □
 材料 : FR-4, FR-4High TG.Halogen 無鹵, 有鹵, 無鹵FR-4,FR-4
 表面處理 : HASL, OSP, ENIG, HAL-LF, LMMersion 無錫,Immersion tin, 有錫, 有錫

SMT 材料 規格

PCB 材料 : FR-4, CEM-1, CEM-3, 銅箔 銅 板

銅 PCB 板 : 510x460mm

銅 PCB 板 : 50x50mm.

PCB 板 : 0.5mm-4.5mm

銅 板 : 0.5-4mm.

銅 板 板 板 : 0201.

銅 板 板 板 板 : 0603 板

銅 板 板 板 : 15mm

銅 板 板 : 0.3mm.

銅 BGA 板 板 : 0.4mm.

銅 板板 : +/- 0.03mm.