

□□ □□□ □□□□□□ O-□□□□□□

[illegible]

000000.000000.000000.000000.000000.000000.000000.000000000000:0000000000 00 000000 000 000 000000 0000
00000

11111111 11111111

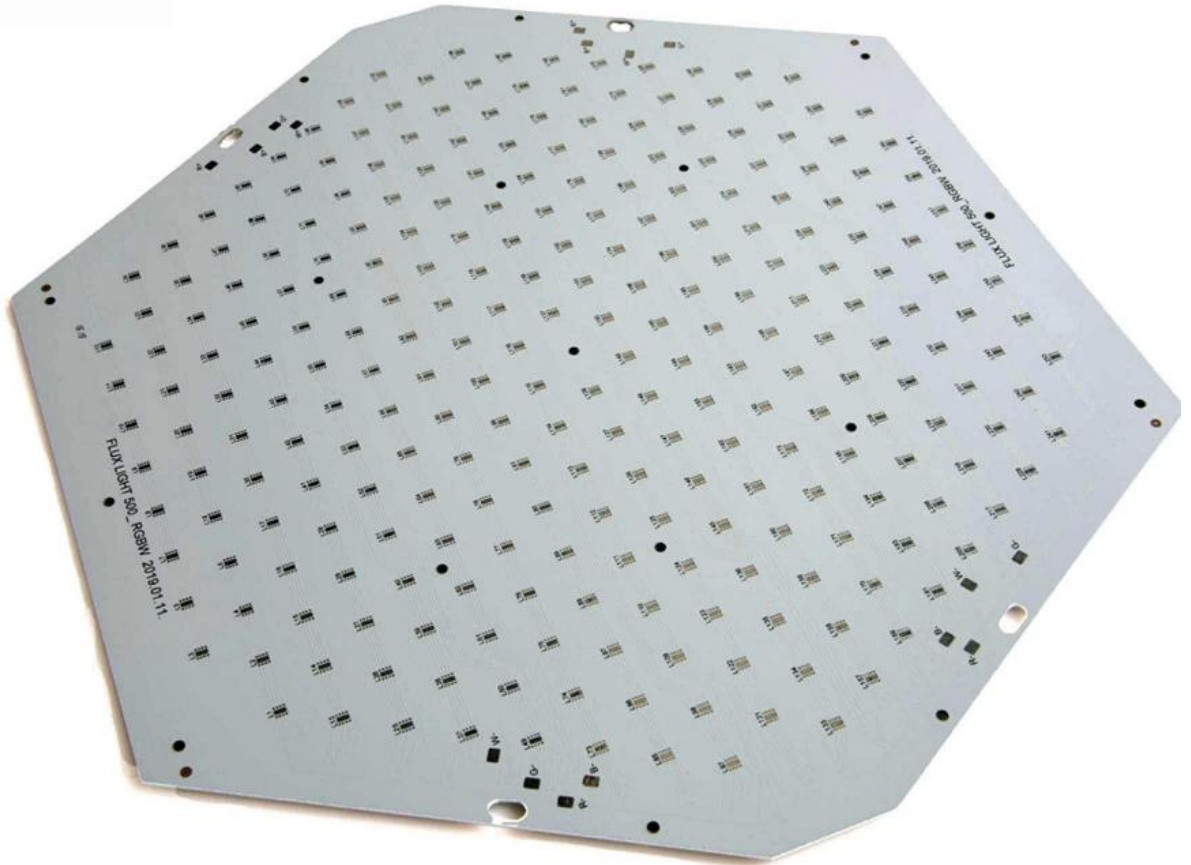
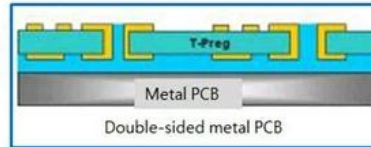
11/11/2019

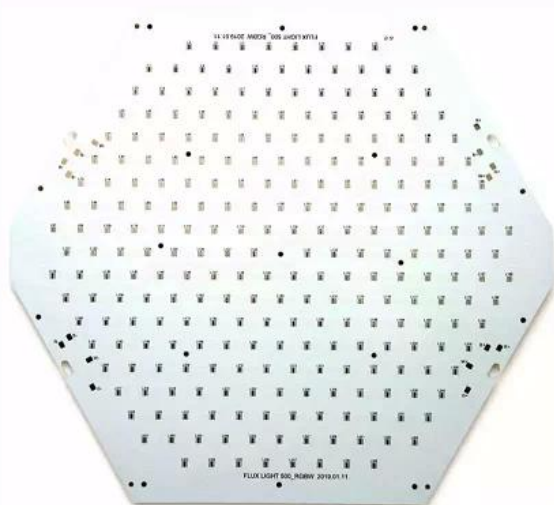
Metal PCB structure

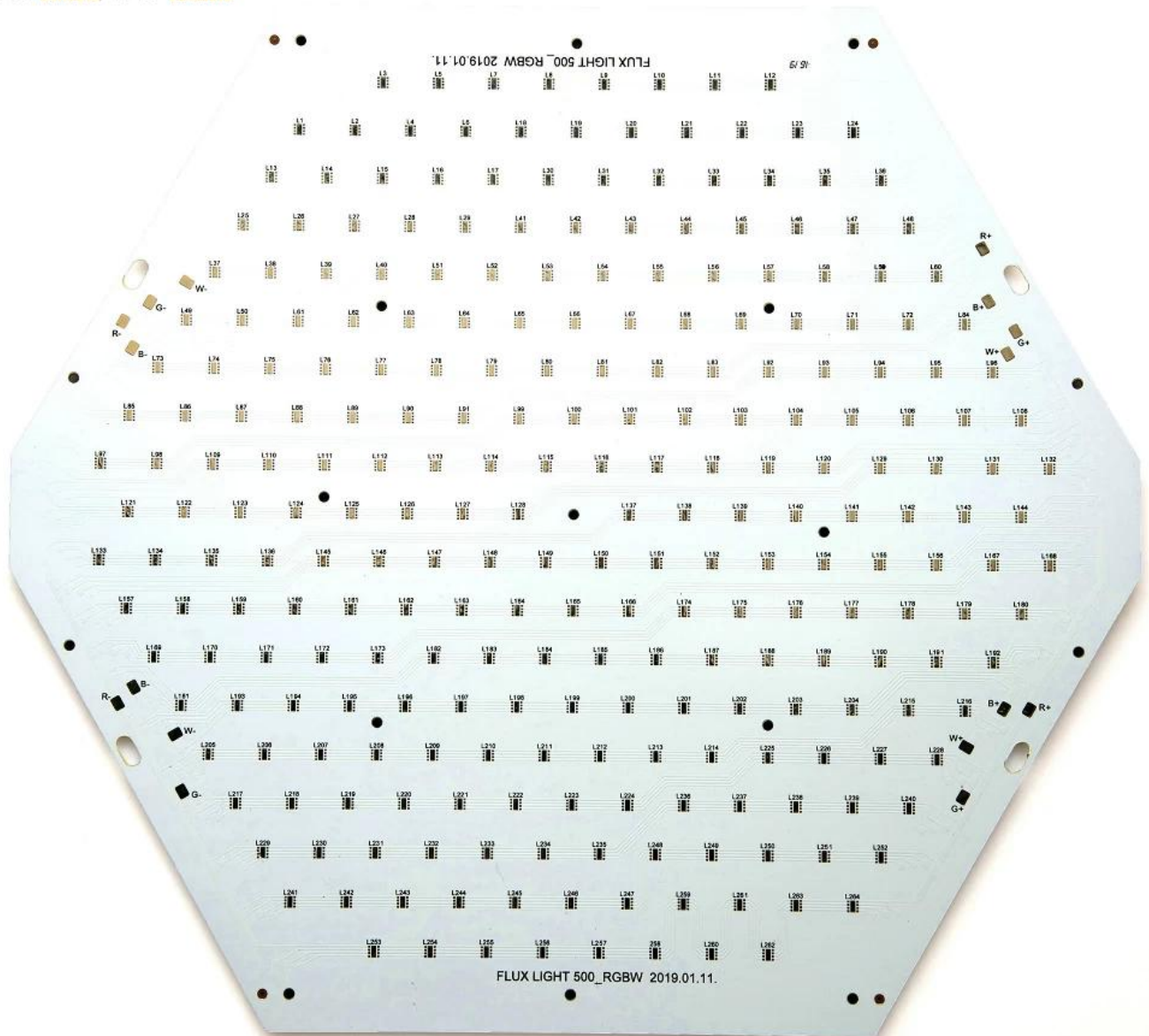
**Double-sided
Aluminum PCB**

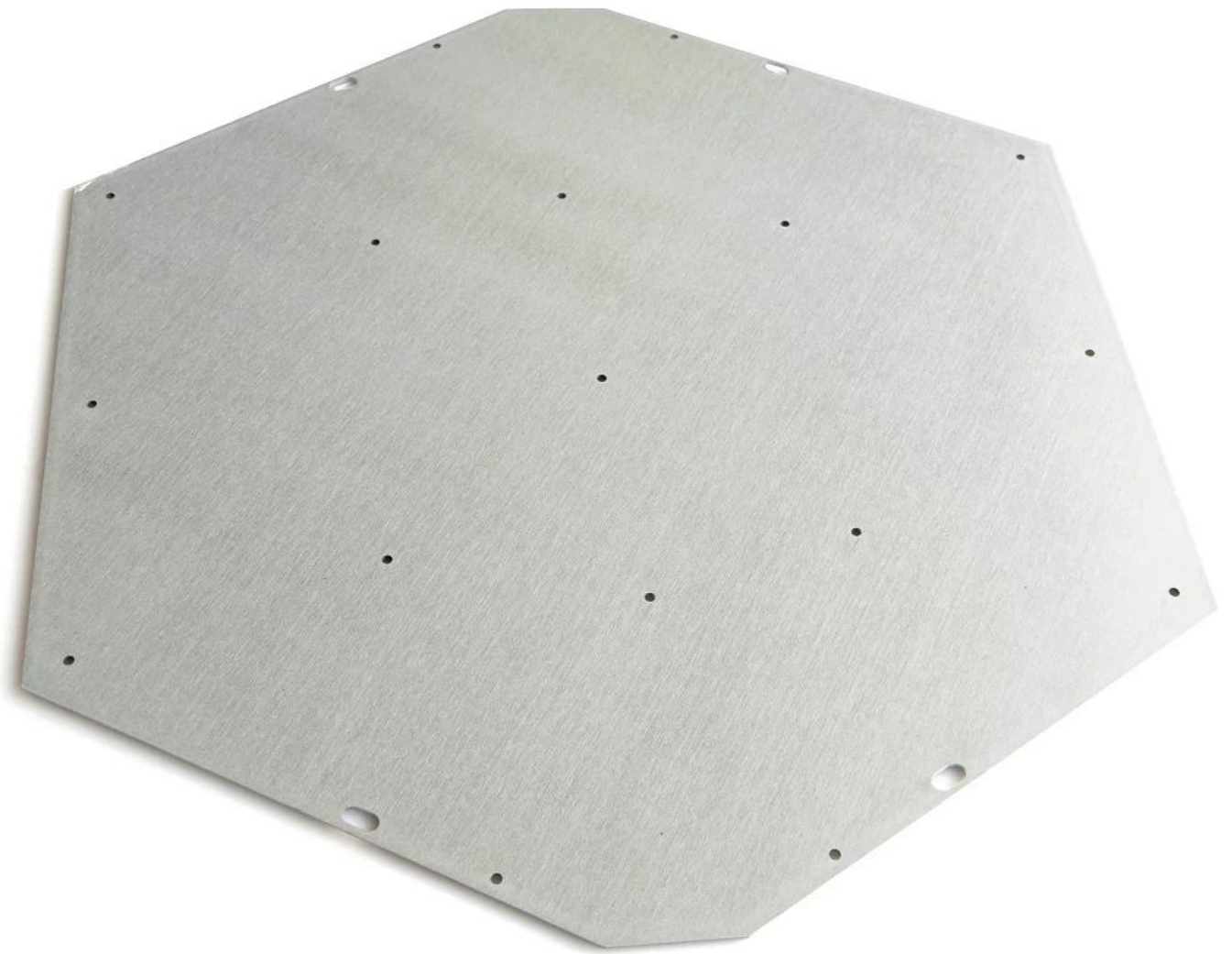
O-LEADING

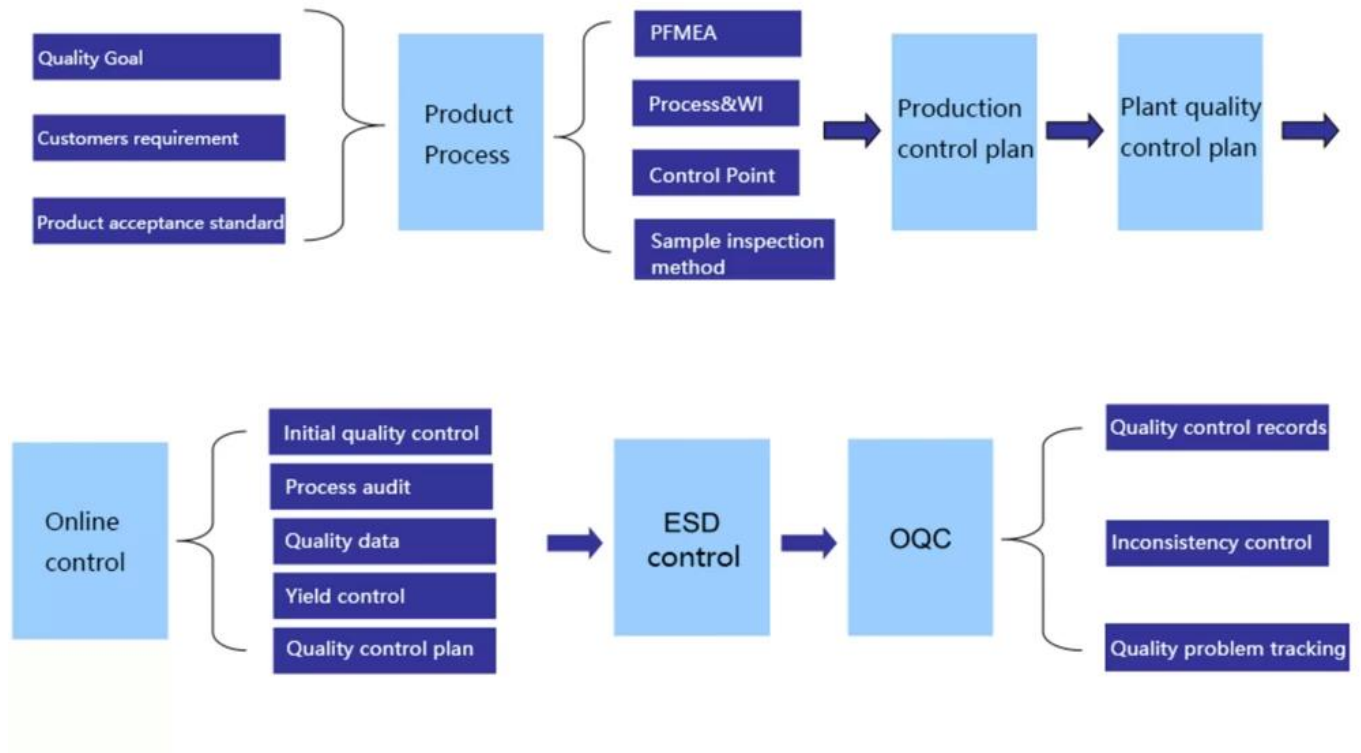
To Be Reliable, To Be Valuable











Market Share

 CONSUMER ELECTRONICS

 AUTOMOTIVE ELECTRONICS

 INDUSTRIAL CONTROL

 INTELLECTUALIZED HOUSEHOLD CONTROL

 OTHER



30%
CONSUMER ELECTRONICS



18%
INTELLECTUALIZED HOUSEHOLD CONTROL

20%
AUTOMOTIVE ELECTRONICS

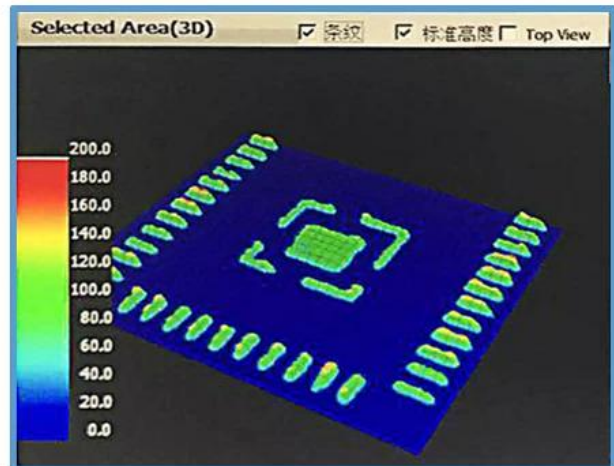
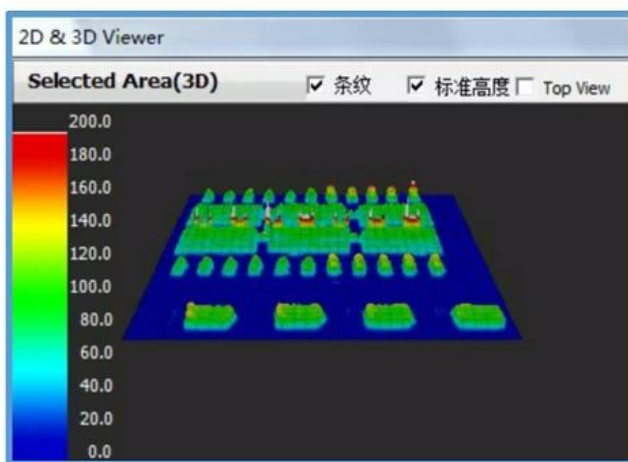
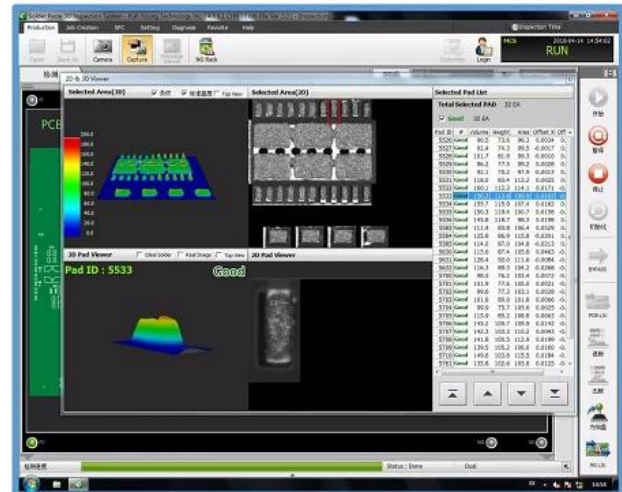


12%
OTHER

20%
INDUSTRIAL CONTROL



KOHOYOUNG solder pasteig check SPI Figure 3 d imaging



فریقنا



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



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 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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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, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test item(s)	Limit	Unit	MDL	Q/Z
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

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		Solder Limits C	Oper Temp C	Flame Class	Meets UL796 DSR	C T I
	Min	Min			Area	Area						
	mm(in)	mm(in)			Diam	sec						
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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القدرة العملية

الخصائص العامة للمنتج	
الوزن	1 كجم 32 كجم
الوقت اللازم للتجهيز	1 / 3oz-12oz
الوقت اللازم للتجهيز / الوقت اللازم للتجهيز	3.0 كجم 3.0 / كجم
الوقت اللازم للتجهيز / الوقت اللازم للتجهيز	4.0 كجم 4.0 / كجم
الوقت اللازم للتجهيز	10: 1
الوقت اللازم للتجهيز	0.2 كجم 5.0 - كجم
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	635 * 1500 كجم
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	4 كجم
الوقت اللازم للتجهيز Plated	+/- 3 كجم
Blind / Buried Vias (الوقت اللازم AII)	كجم
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	كجم
الوقت اللازم للتجهيز	FR-4 كجم FR-4hg Tg. الوقت اللازم للتجهيز كجم Rogers كجم الوقت اللازم للتجهيز كجم الوقت اللازم للتجهيز كجم الوقت اللازم للتجهيز كجم
الوقت اللازم للتجهيز	HASL كجم OSP كجم ENIG كجم HAL-LF كجم Immersion silver كجم Immersion كجم الوقت اللازم للتجهيز كجم الوقت اللازم للتجهيز كجم

الوقت اللازم للتجهيز SMT	
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	FR-4 كجم CEM-1 كجم CEM-3 كجم الوقت اللازم للتجهيز كجم الوقت اللازم للتجهيز كجم
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	510x460 كجم
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	50x50 كجم
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	0.5 كجم 4.5 - كجم
الوقت اللازم للتجهيز	0.5-4 كجم
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	0201
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	0603 كجم
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	15 كجم
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	0.3 كجم
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	0.4 كجم
الوقت اللازم للتجهيز (الوقت اللازم للتجهيز)	+/- 0.03 كجم

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

.اختبار O-Leading هو اختبار جودة

مستند إلى معيار ISO 9001: 2008.

1.2 اختبار O-Leading هو اختبار جودة

مستند إلى معيار ISO 9001: 2008. 1.3 اختبار AOI

(.اختبار O-Leading) هو اختبار جودة

مستند إلى معيار ISO 9001: 2008. 1.4

اختبار O-Leading هو اختبار جودة

2. اختبار O-Leading

هو اختبار جودة مستند إلى معيار ISO 9001: 2008

.اختبار O-Leading هو اختبار جودة مستند إلى معيار ISO 9001: 2008

.اختبار O-Leading هو اختبار جودة

مستند إلى معيار ISO 9001: 2008. اختبار O-Leading هو اختبار جودة

مستند إلى معيار ISO 9001: 2008. اختبار O-Leading هو اختبار جودة

مستند إلى معيار ISO 9001: 2008. اختبار O-Leading هو اختبار جودة

.اختبار O-Leading

000000 00000 00 00000 00000 000000000 000000 00 00 **.3 O-Leading**

FR4 00000000000 00 00000000 00000000000 00 000000 000000 000000 0 000000000 0 Rogers 0 Arlon 0 Telfon 0 000000 0000000 / 00000000000 00 0 PI 0 .0000

00000000 000000 000000000 000000 0 00000000 000000 00000000 000000 00000000 000000000 00 00 **.4**

.000000 00000 000000000 00000000 00000 00000 0000 :000000000 000000000 00 (00000000 000000) 0000000 000000 4.1

000000 4.2 PCB Gerber.

4.3 000000 0000 PCB 000000 000000 PCBA.

4.4 .0000000000 000000000

.000000000 00000000 000000000 0000 0000000000 00000 00 4.5

000000000 000000 00000000 000000 00000000 00000000 00000000 00000000 000000 00 00 **.5**

000000 0000 ← 0000000 0000 000000 0000 ← AOI 000000 ← 00000000 00000000 000000 ← 00000000 000000 ← 0000000
← PTH ← 0000000 ← 0000000 0000 ← 0000000 000000 ← 0000000 000000 AOI ← 000000 ← 00000000 000000
00000000 ← 000000 000000 ← 00000000000 ← E / T ← .00000000 000000

00000000 0000000000 000000000 00 00 **.6 HDI**

00 0 000000 0000 0 000000000 000000 0000 :0000 0000 00 0000000000 000000000 000000 VCP 0 0000000000 000000000 0000 0 LDI .00000000

00 00 000000000 0000000 000000 0 000000000 00 00000000 00 000000 00000 000000000 Mitsubishi 0 Hitachi 0 000000 LDI
00 Screen (00 000000 00 00000000000 000000000 000000 0 (000000000 Hitachi 0 000000 00000000 00000000 000000
.00000000 00000000 000000000000

00000000 00000000 00 00000 00000 000000000 00000000000 000000 0000 00 **.7**

O- 0000 0 000000000 00000000000 00 000000 000000 00000 00000000: ENIG 0 OSP 0 LF-HASL 0 / 00000) 0000000 00000
00000000 000000000 0000000 0 000000 0000000000 00000 0 0000000 0 0000000 000000 0 (0000. OSP 0 ENIG
0 OSP + ENIG 0000 000000000000 00000 HDI 0 00 00000 00000000000 000000 00000 OSP OSP + ENIG 0000 0000 0000
BGA PAD .000 0.3 00 0000

0000 000000 00 00 **.8 FPC**000000 00000 00 0 **O-Leading** 00000 000000 **SMT** 00000000

00000 00 00000 O-Leading 00000000 FPC 00000 0000000 00000 0000 0000 00 00000 00 00000 0000 0000 00
2000mm * 240mm 0 00000 00 00000000000 0000 000000000 00000 "Flex Flexability"
00000 00000 0000 SMT .0000000000 0000000 000000

000000000 000000 000000000 000000 0000 0000 000000 00000 0000000000 000000000 00 00 **- 9**

0000000

000000000 0000

00000000000000000 000000

0 00000000000 00000000 00000000

0 00000000 0000000 000000000 0000000 000000

00000000 00000

.00000000000 00000000000 0000000

000000 00 00 **.10 PCB 0 PWB 0 FPC** 00000000 0000

0 00000000000 0000000000 000000 000000 00 00000000 0000000 00000000 000000

PWB 0 00000000000 000000000 00000 0000 0000 0000 0 0000000000 000000000 000000 00000000

FPC .00000 00000000 0000000 00000000

000000 00000000 00000000 00000000 0000 000000000 00 000000 0000 00000 000000000 00 00 **.11 PCB**

:000000000 0000000 000000000 000000 00000 0000000 0000 000000000 000000000 00000000 0000

00000 00000 00 0000 Tg 0 0000000000 0000000 00000 00 00000 00000000

00000 0000000 CTE 0 0000000000 000000000000 000000 0000000000 0000000000

°C 250 000000000 000000000 00000000 0000000 000000000 0000000 0000000 00000 00 00000 :0000000000 0000000000 0000 00000

