

O-LEADING

O-Leading PCB PCB PCB PCBA EMS

O PCB PCBA

HF1R0x Hexabitz Raspberry Pi Raspberry Pi 3B / 4B Raspberry Pi Hat Pi-Hat

* Raspberry Pi UART Hexabitz Raspberry Pi 3B / 3B + / 4B

* Hexabitz Raspberry Pi 3.3V

* Raspberry Pi Hat

* Hexabitz M2 / M2.5 / M3 / M4 H00R1

* Explore Hexabitz

* C ++ Python Raspbian Ubuntu Linux C ++ Hexabitz

* HF1R0x Raspberry Pi Hat Hat EEPROM Linux

* Raspberry Pi 3B 3B + 4B 1GB 4B 2GB 4B 4GB

* ON Semiconductors CAT24C32WI-GT3 32-Kb I2C EPROM

* Raspberry Pi EEPROM WP

* Raspberry Pi GPIO Sullins Connector Solutions PPTC202LFBN-RC 40 2

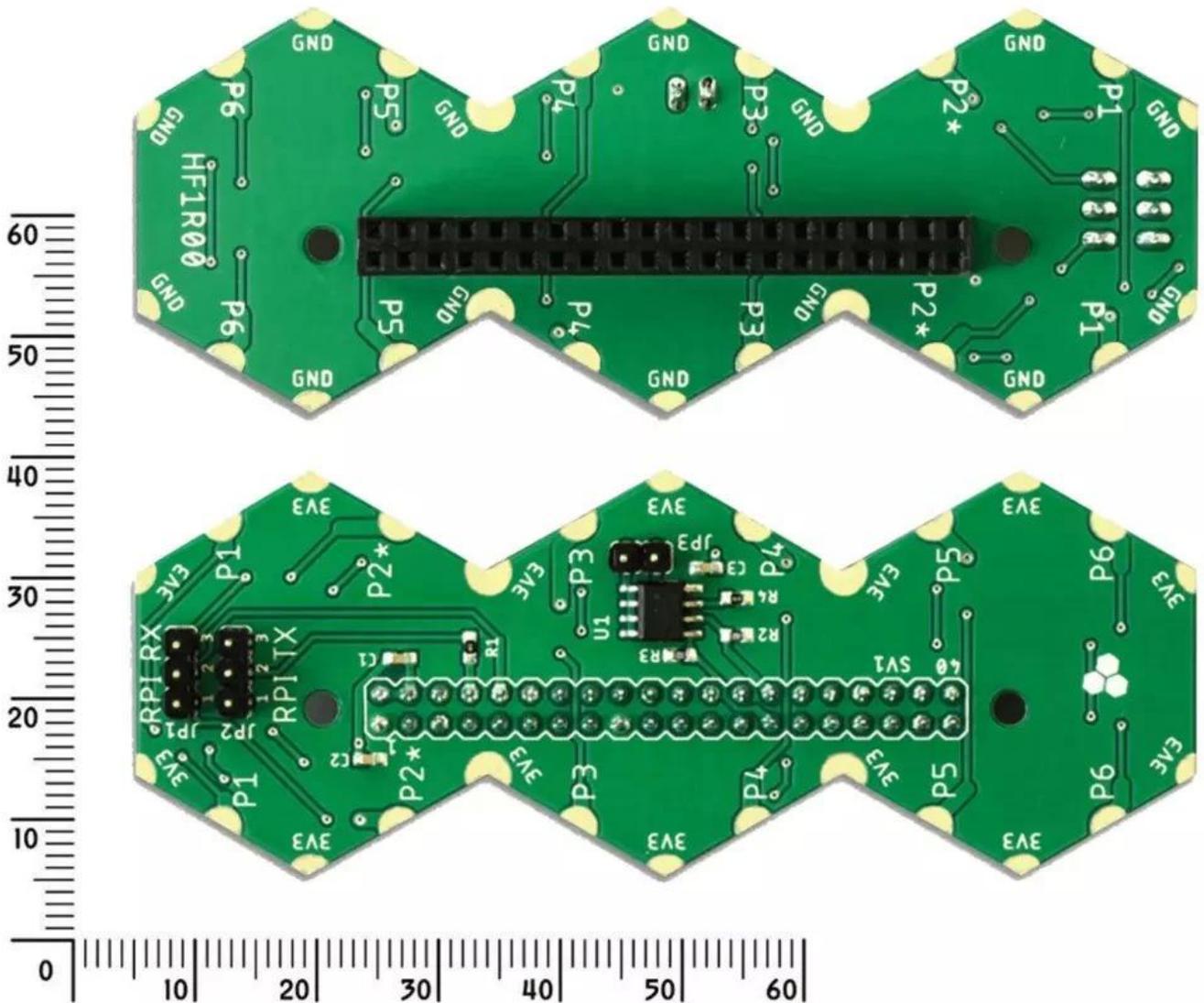
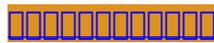
2x20 0.100 2.54mm 3.20mm 12mm

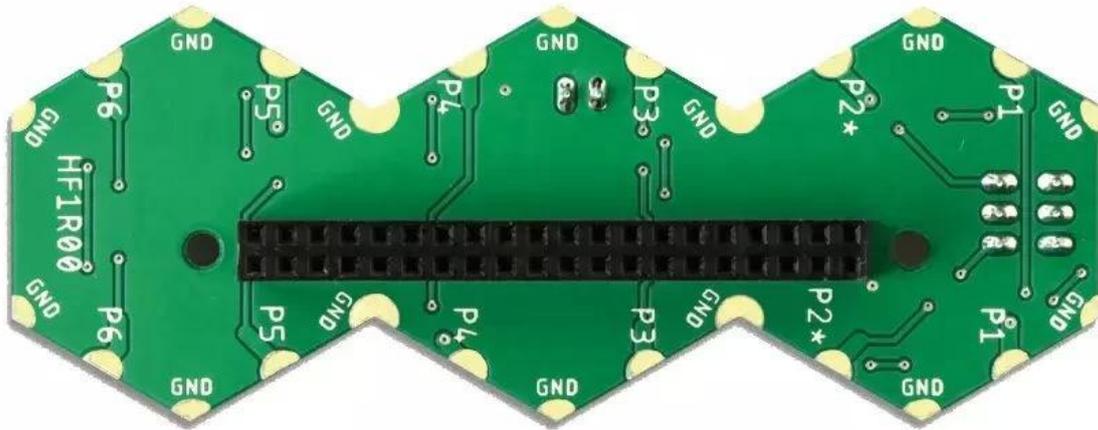
* Raspberry Pi Hat 2 M2 2.75mm

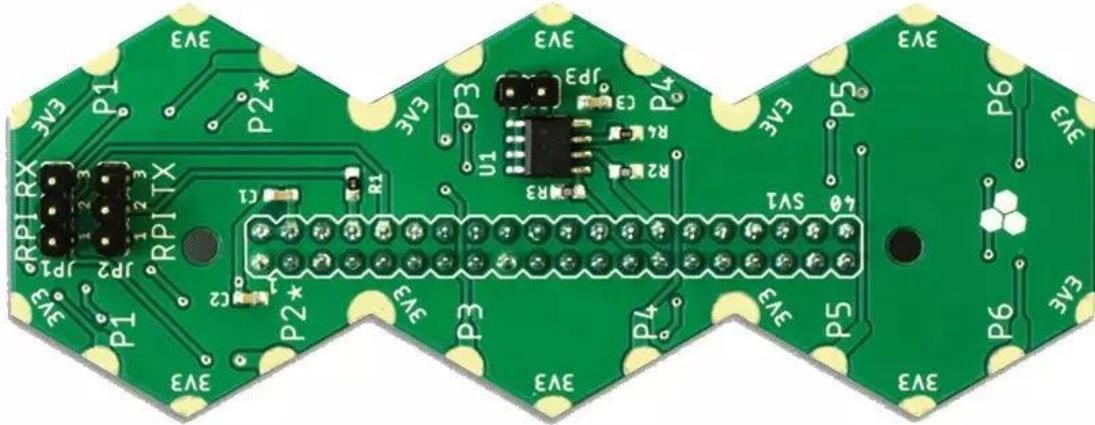
* 6 14 + 3.3V GND

- * P2 Raspberry Pi RXD0 TXD0
- * P1 P3 P4 P5 P6
- * Raspberry Pi 3.3V 3.3V

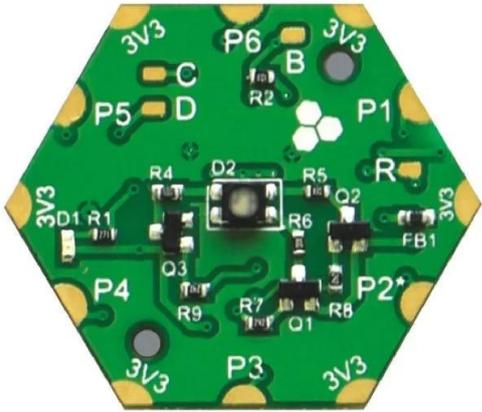
- * 3 x
- * 30 mm 17.32 mm 90mm x 34.64mm
- * 23.4 cm ^ 2
- * 14 g
- * ENIG HASL-LF







HEXABITZ QUICK START GUIDE

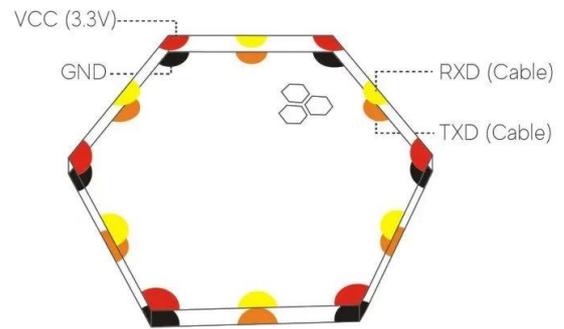
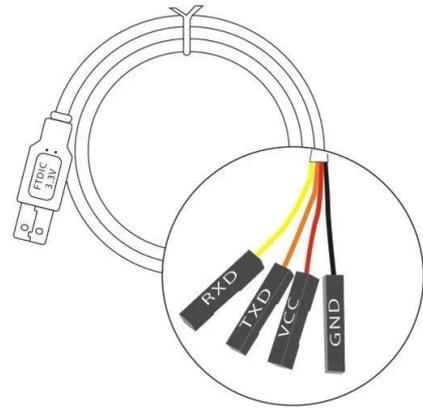


HOIROx RGB LED

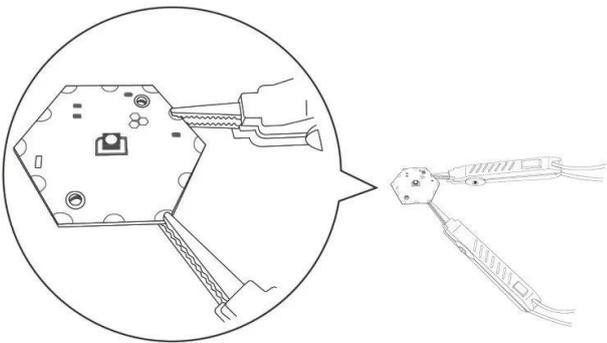
link



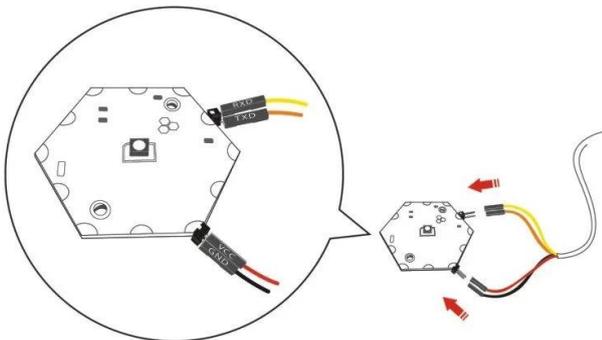
Re-37-19



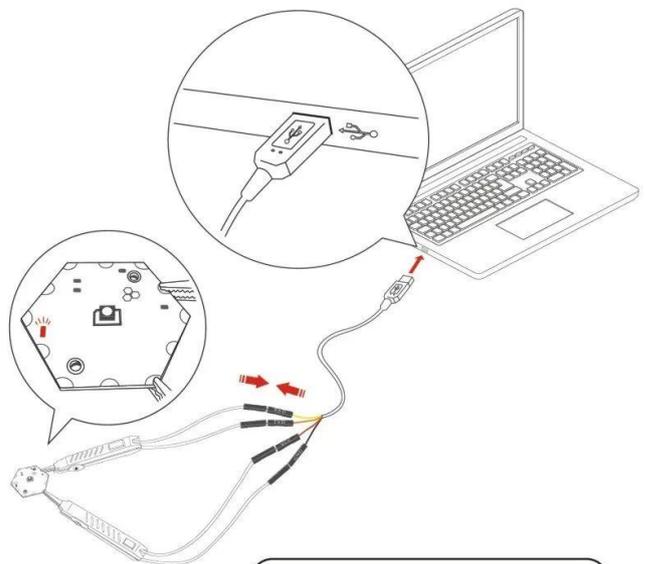
1



OR



2

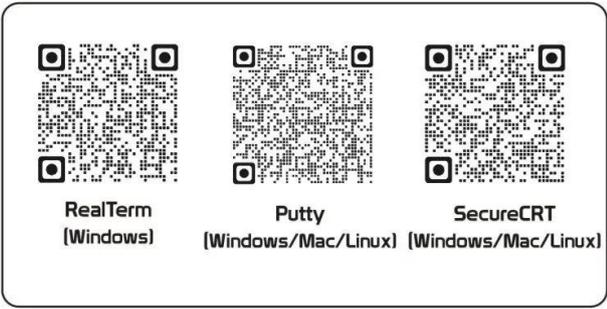


**Need to
update firmware?**



link

3



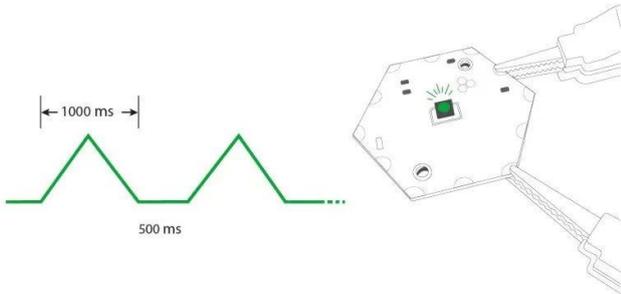
Use your favorite terminal software with these settings:

- o Baudrate: 921600
- o Display Format: Ansi
- o Parity: none
- o Data Bits: 8
- o Stop Blt: 1
- o Hardware Flow Control: none

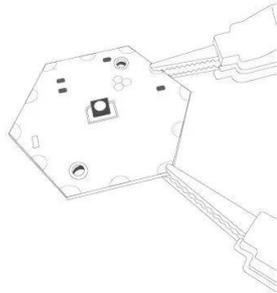
Open the virtual COM port and hit the ENTER key. Module will respond with a welcome message.

4

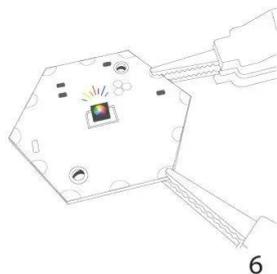
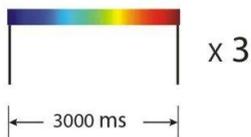
» dim green updownwait 1000 500 inf



» off



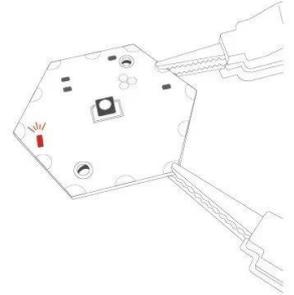
» sweep fine 3000 3



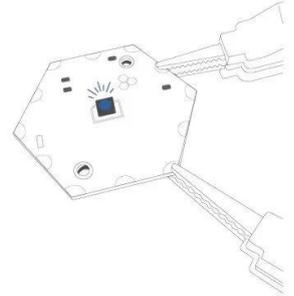
6

Try some CLI commands:

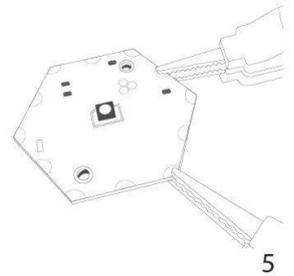
» ping



» color blue 30



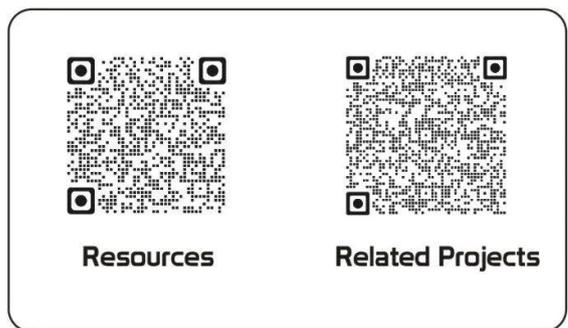
» off



5

Type » help for more CLI commands.

Check module documentation, schematics, firmware and design files in the Resources tab.



7

O-LEADING

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

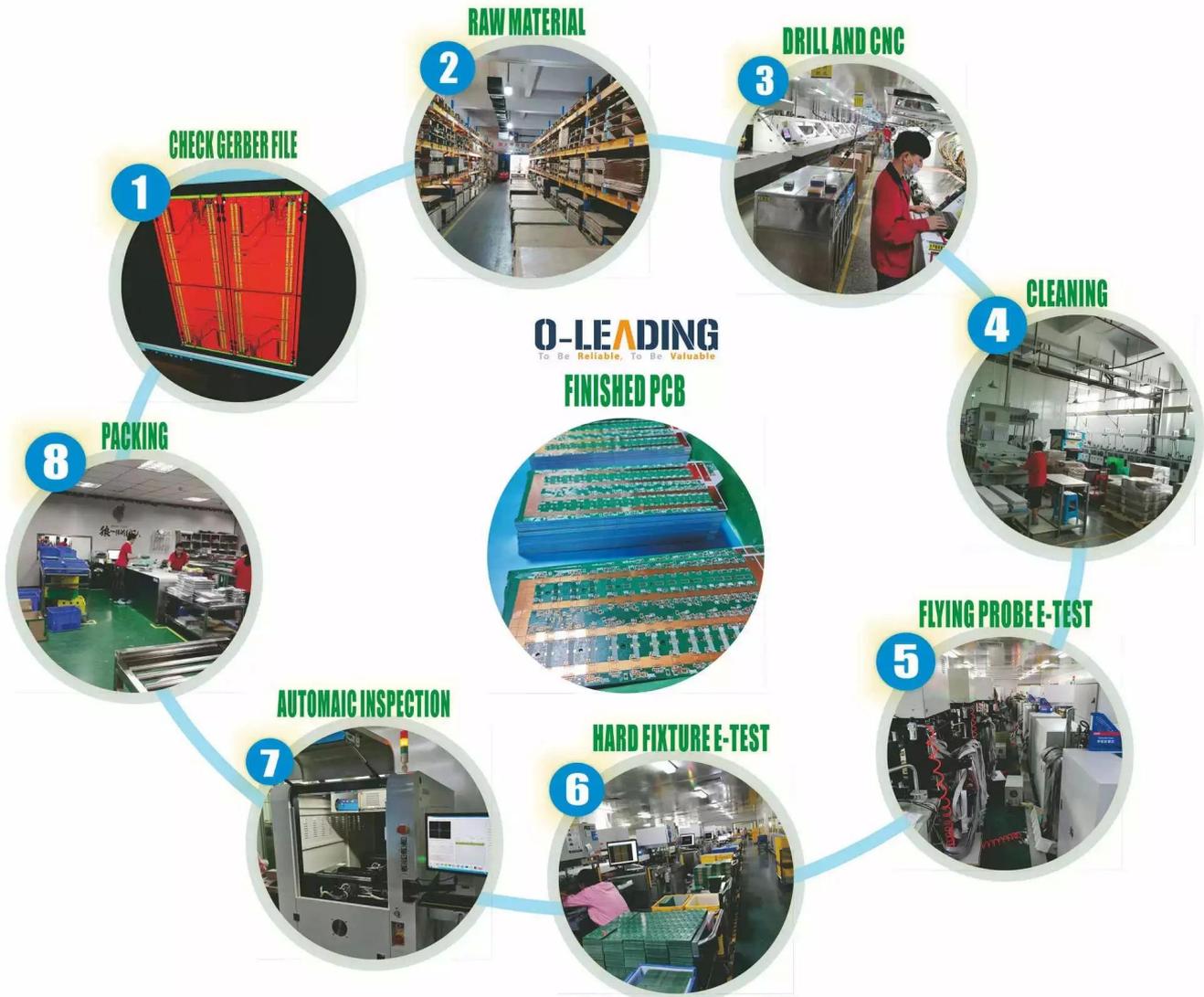
QUALITY IS OUR CULTURAL



SOCOMEQ-877789

Production Process

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





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





CICC INSPECTION CERTIFICATION



嘉泰认证

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 18118Q10347R05

We hereby certify that

O-LEADING SUPPLY CHAIN(HK) CO.,LIMITED

Credit No: 61691591-000-07-18-7

Registration Add: FLAT/RM 1205 12/F TAI SANG BANK BUILDING 130-132 DES VODEUS ROAD CENTRAL HK

Business Add: 1213, Floor 13, Fortune Building, Danshui Town, Huiyang District, Huizhou, Guangdong, China

Has implemented and maintains a **Quality Management System** Which fulfills the requirements of the following standards
GB/T19001-2016 idt ISO9001:2015

Scope of certification
Sales of printed circuit boards

Initial issuance period: February 27, 2018
Renewal date: April 22, 2019
This certificate is valid during: April 22, 2019 – February 26, 2021
This certificate is invalid without CICC qualified label in the following period

First supervision and audit	Second supervision and audit	Qualified mark
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The certificate registration number does not include those production stages which fail to be covered by the relevant effective administrative procedures and qualification procedures stipulated by the state. The effectiveness of this certificate shall be restricted to those activities which are covered by the certificate. The actual information of this certificate can be searched on the internet of CICC. See china.cicc.com






CICC INSPECTION CERTIFICATION



嘉泰认证

质量管理体系认证证书

证书号: 18118Q10347R05

兹证明

诚领供应链(香港)有限公司

统一社会信用代码: 61691591-000-07-18-7

注册地址: 香港中環德輔道中130-132號大生銀行大廈1205室

经营地址: 广东惠州惠阳淡水南亨西路财富大厦13楼1313

建立的质量管理体系符合
GB/T19001-2016 idt ISO9001:2015 质量标准适用条款的要求

认证范围
印刷线路板的销售

初次获证日期: 2018年02月27日
换证日期: 2019年04月22日
证书有效期: 自2019年04月22日至2021年02月26日
在下列期限内, 未经CICC黏贴合格标贴, 本证书无效

第一次监督	第二次监督	黏贴处
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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
Tina Fan
Approved Signatory



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SGS (China) Co., Ltd. Shenzhen Branch (深圳分公司) 地址: 深圳市福田区福强路430号工业大厦505A室 邮编: 518129 电话: 86-755-25288888 传真: 86-755-83106190 电子邮箱: sgs.shenzhen@sgs.com
Member of the SGS Group (SGS SA)



Test Report

No. SZXEC1900530401 Date: 30 Mar 2019 Page 2 of 6

Test Results :

Test Part Description :

Table with 3 columns: Specimen No., SGS Sample ID, Description. Row 1: 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.

Table with 5 columns: Test Item(s), Limit, Unit, MDL, 0/1. Lists various substances like Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs, PBDEs, and Phthalates with their respective limits and detection results.



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Member of the SGS Group (SGS SA)



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			SS/ DS/ DSO	Max	Max		Meets UL796	C T	
	Min	Cond	Area		Solder	Oper	Flame			
	mm(in)	Edge Thk	Diam		Limits	Temp				Class
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		SMT	
Layer Count	1-32	PCB	FR-4, CEM-1, CEM-3
Weight	1 / 3oz-12oz		
Thickness	3.0mil / 3.0mil	PCB	510x460mm
Thickness	4.0mil / 4.0mil	PCB	50x50mm
Drill Size	10µ	PCB	0.5mm-4.5mm
Drill	0.2mm-5.0mm	Drill	0.5-4mm
Panel Size	635 * 1500mm	Panel Size	0201
Core Thickness	4mil	Core Thickness	0603
Plated Hole Tolerance	+/- 3mil	Plated Hole Tolerance	15mm
Blind / Buried Vias	Yes	Blind / Buried Vias	0.3mm
Via Fill	Yes	Via Fill	0.4mm
Material	FR-4, FR-4high Tg	Material	+/- 0.03mm
Surface Finish	HASL, OSP, ENIG, HAL-LF		



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

- 1.1
- 1.2
- 1.3
- 1.4
- 1.5

2. O

10 2 3 4 31 O Win-Win

3. O-Leading

FR4 TG PI

4. PCB PCBA

- 4.1 BOM
- 4.2 PCB Gerber
- 4.3 PCB PCBA
- 4.4
- 4.5

5. PCB

→ → AOI → → PTH → → → AOI → → → E / T →

6. HDI

VCP LDI LDI

7. O

O- ENIG OSP LF-HASL / HDI OSP ENIG OSP + ENIG BGAPAD 0.3 mm OSP OSP + ENIG

8. FPC O-Leading SMT

O-Leading FPC 8 2000mm * 240mm SMT

9. PCB

; ; ; PCB ; ;

10. PCB PWB FPC

PCB Printed Circuit Board PWB Printed Wire Board Printed Circuit Board FPC Flexible Printed Board

11. PCB

PCB Tg CTE PCB 50 250°C PCB

12. O-rigid-flex PCB

O-leading PCB FPC PCB

13.

SI6000 POLAR INSTRUMENTS CITS 500s

