

O-leading □ □ □ □ □ □ □ □

O-Leading PCB 板, PCB 板 及 PCB 电路板 (PCBA) 的 EMS 制造商。我们提供 HDI PCB, 多层 PCB, 刚-挠性 PCB 以及柔性 PCB 制造服务。我们拥有先进的设备和技术，能够满足您的各种需求。

[illegible][illegible]

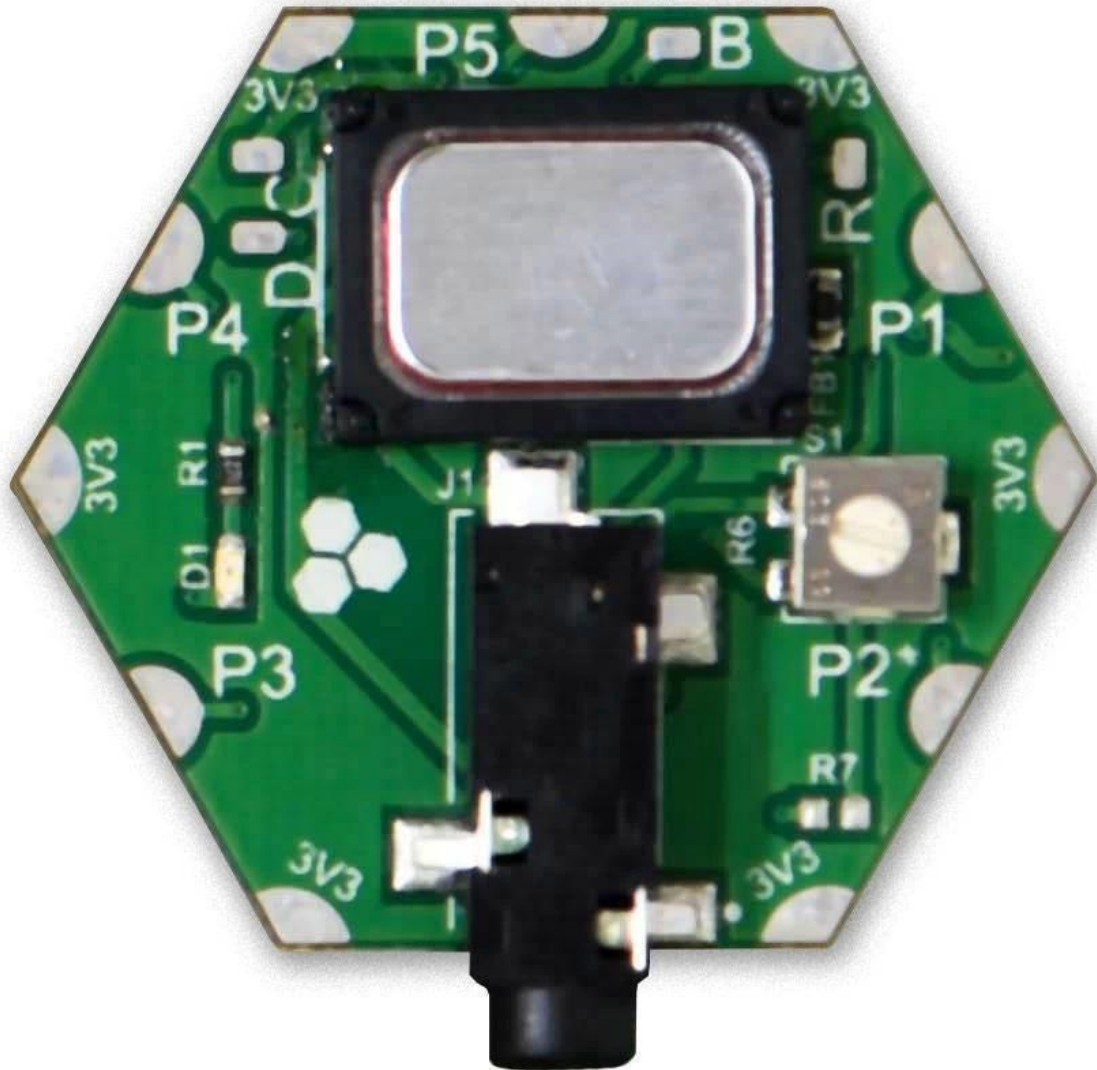
□□ □□ □□ □□□□. □□ PCB □□ BP □□ □□

11 11

H07R3x ST TS4990 1.2W 3pin 3pin 3 **STM32F0 MCU** 100pin 3pin 3pin 3 3pin 3pin 3pin.

□ □□□ □□ 8 □ □□□ CUI □□□□ □□ □□ □□□□.

MCU 的 運 算 能 力 可 以 通 過 以 下 的 運 算 速 度 來 衡 量 。



□□ □ □□ □□ :

□□ □□

□□□ □□

* ST TS4990IST □□□ □□ □□□ :

* VCC□□ 1.2W □□ □□ = 5V, THD = 1 %,F = 1kHz, 8Ω □□

* □□ □□□□ 217Hz□□ 62dB PSRR.

* □□ □□ □ □ □□.

* CUI CDS-15118B 1W, Nd-Fe-B, 8Ω □□□.

* CUI SJ-3524-SMT-TR 3.5mm, □□□ □□□□ □□□ □.

* 50kΩ □□□□□ □□□ □□ (□□ □□)□ □□□□□.

□□□

* STM32F091CBU6 32 □□ ARM Cortex-M0 MCU.

* 8MHz □□ □□□.

* 5 □□ □□□ □□ □ 6 □□ □□ □□ (+ 3.3V □ GND).

* 5xUART, 2xI2C, SWD, BOOT0, RESET□ □□□□□□.

0000 000 00

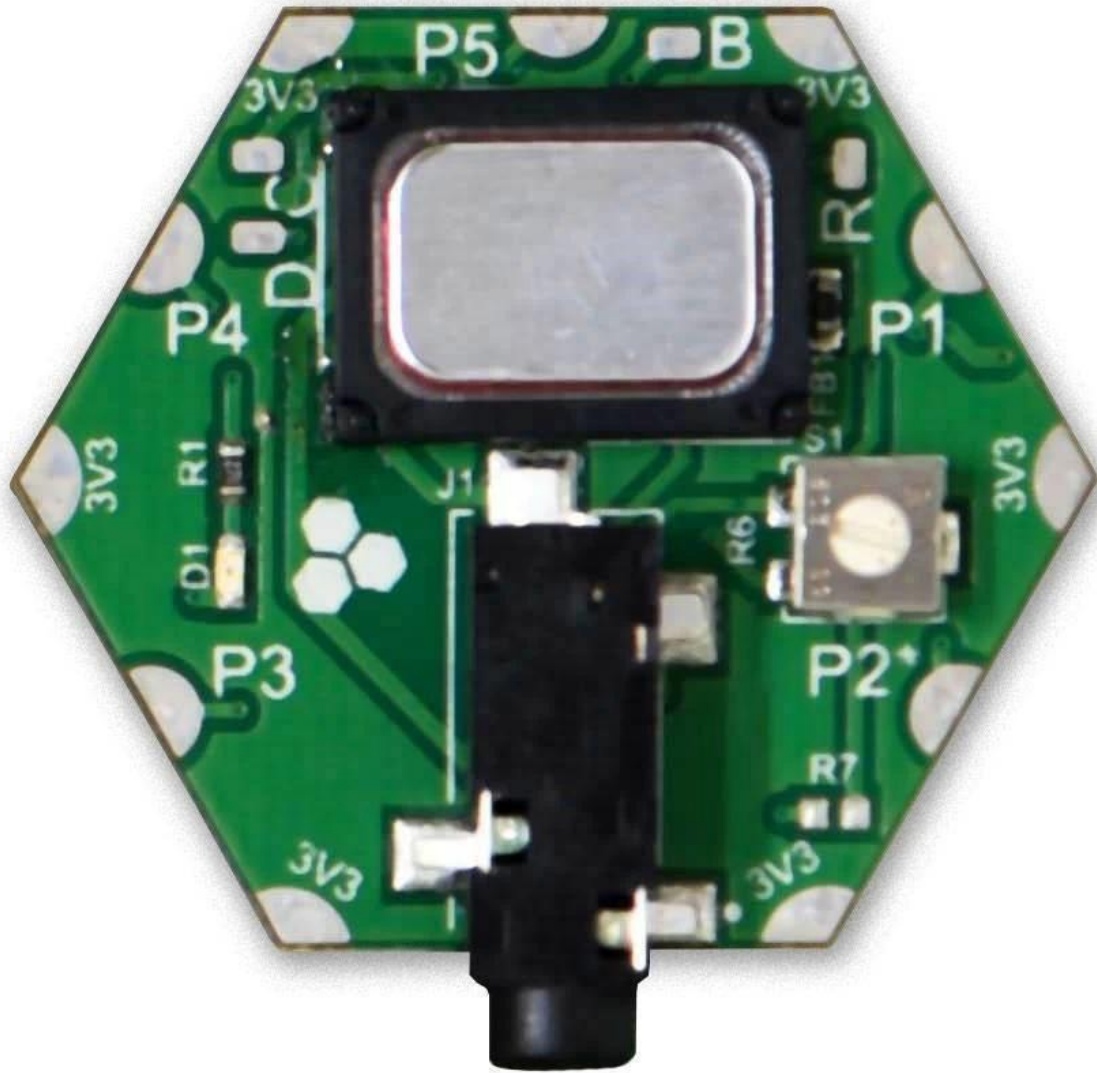
H07R30

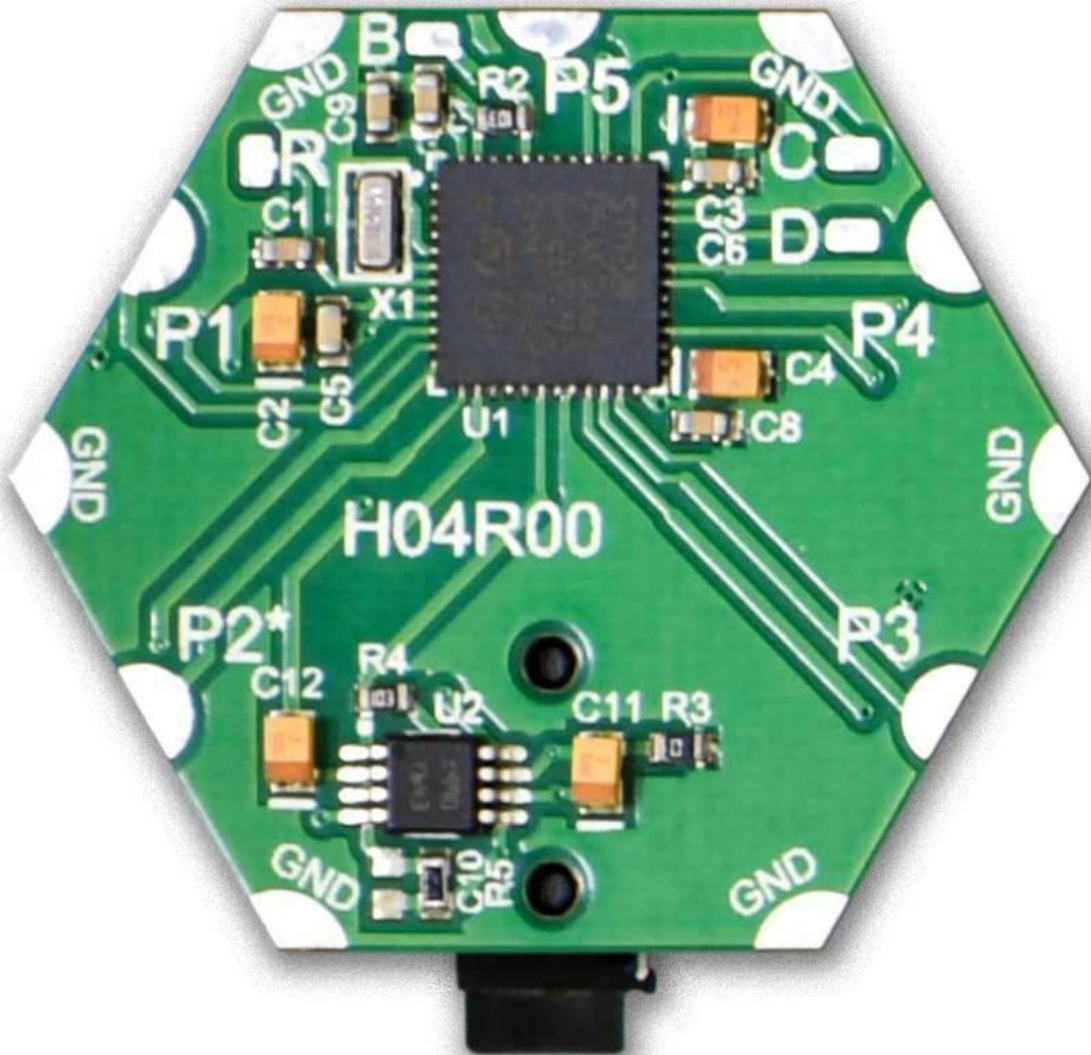
* 00 0000 000.

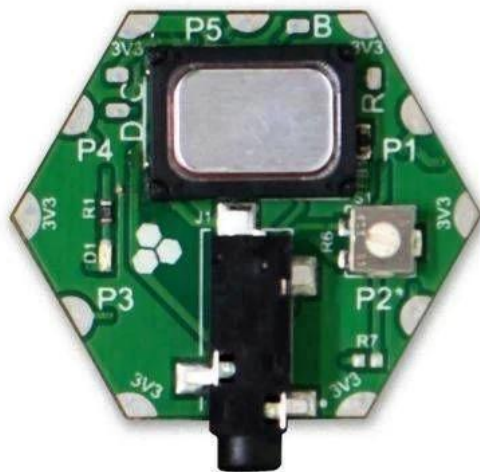
H07R31

- * 00 000 000 00 DC 00 0000 (C12)0 0000000.
- * 00 00 00 00 00 00 (DNP)0 00000000.
- * 00 000 00 0 0000 00 00000000000.
- * 000 000 256Kb0 000 00 MCU0 STM32F091CCU60 0000000.

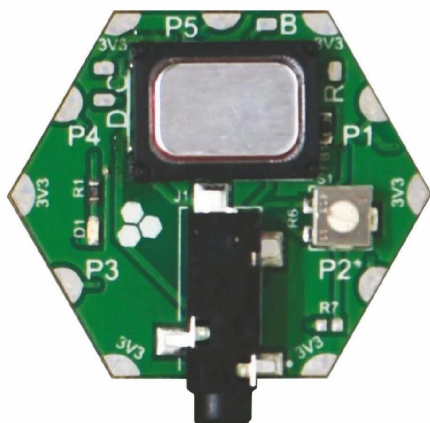
0000 00	
00:	000
00:	00 000 30mm, 00 17.32mm
00:	7.8 00 00 ^ 2
00:	0 0
00 000 00 :	00 00
00 000 :	ENIG (0) 00 HASL-LF (00)







HEXABITZ QUICK START GUIDE



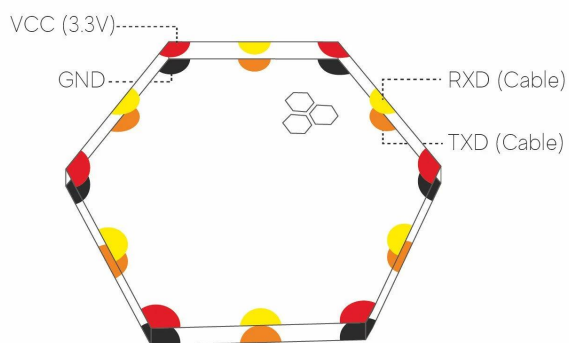
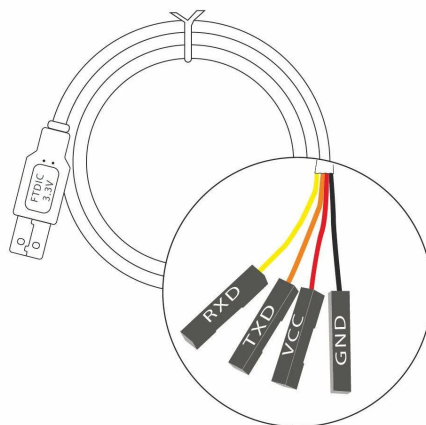
H07R3x

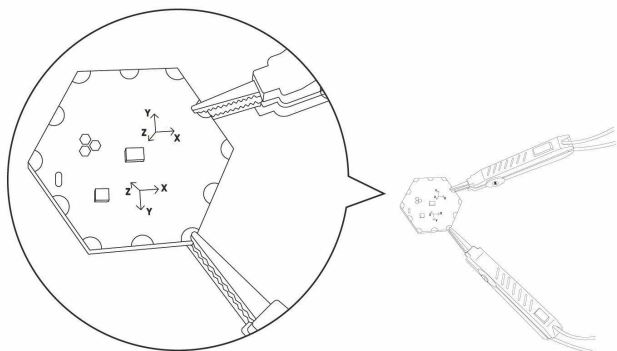
Audio speaker and
Headphone Jack

link

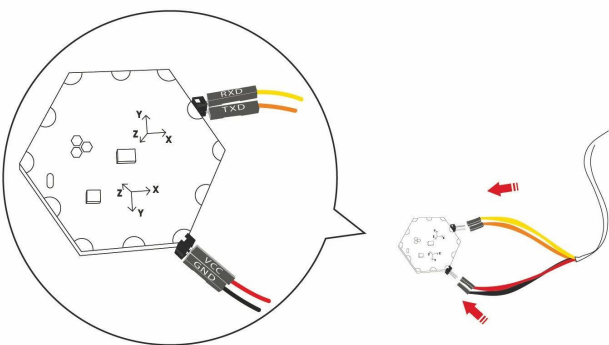


Rev-37-19

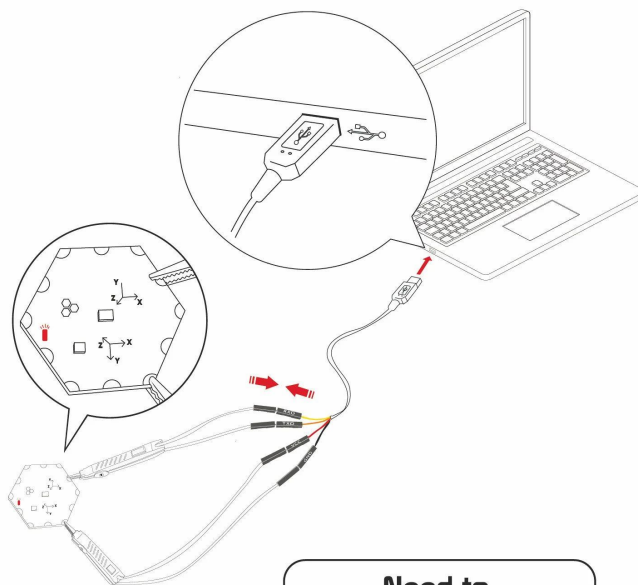




OR



2



Need to
update firmware?



link

3



RealTerm
(Windows)



Putty
(Windows/Mac/Linux)



SecureCRT
(Windows/Mac/Linux)

Use your favorite terminal software with these settings:

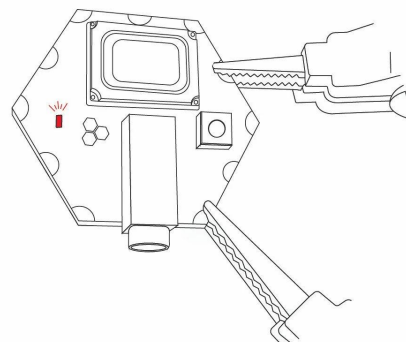
- Baudrate: 921600
- Display Format: Ansi
- Parity: none
- Data Bits: 8
- Stop Bit: 1
- Hardware Flow Control: none

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

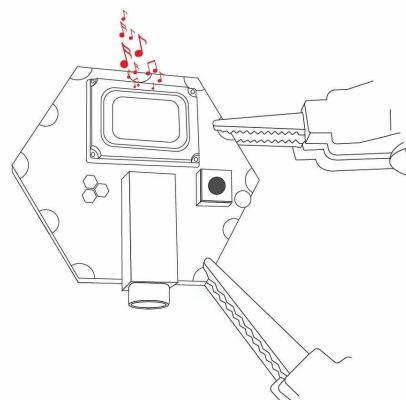
4

Try some CLI commands:

» ping



» play tune do re mi fa sol la si



5

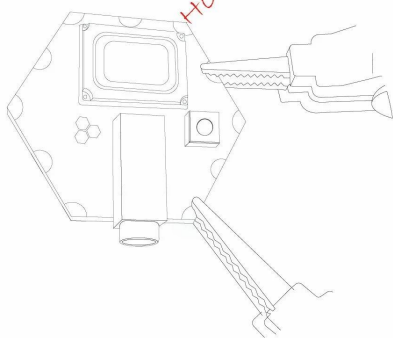
» list

Name length(seconds).

hithere 1.1

howareyou 1.8

» play wave howareyou



6

Type » help for more CLI commands.

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



Resources



Related Projects

7





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







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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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					
	Min	Min			Area	Solder	Oper	Flame	Meets	C	
	mm(in)	mm(in)			Diam	Limits	Temp	Class	UL796	T	
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.

并不是所有出现在本数据库中的公司名称和产品都满足了UL 跟踪检验服务的要求。只有带有 UL 标志的产品，才应该被视为经过UL认证，并满足UL 跟踪检验服务的要求。注意查看产品上的标志。

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PCB 規格

PCB 材料	
銅板	1 0-32
銅板 厚	1 / 3oz-12oz
銅板 厚 / 銅板	3.0mil / 3.0mil
銅板 厚 / 銅板	4.0mil / 4.0mil
銅板	10 : 1
銅板	0.2mm-5.0mm
銅板 厚 (mm)	635 * 1500mm
銅板 厚	4mil
Plated 銅板	+/- 3mil
Blind / Buried Vias (All 銅板)	
銅板 (銅板, 銅板)	
銅板	FR-4, FR-4high Tg. 銅板 銅板, 銅板, 銅板銅板銅板銅板銅板, 銅板
銅板	HASL, OSP, ENIG, HAL-LF, 銅板銅板銅板, 銅板銅板銅板

SMT 規格	
PCB 材料	FR-4, CEM-1, CEM-3, 銅板銅板銅板銅板
銅板 PCB 材料	510x460mm
銅板 PCB 材料	50x50mm
PCB 材料	0.5mm-4.5mm
銅板	0.5-4mm
銅板 銅板 銅板	0201
銅板 銅板 銅板 銅板	0603 銅板
銅板 銅板 銅板	15mm
銅板 銅板	0.3mm
銅板 BGA 銅板	0.4mm
銅板 銅板	+/- 0.03mm

PCB 規格

Shipping service



0000 00 0000 00 000 00, SI6000 soft 0 POLAR INSTRUMENTS0 CITS 500s 000 0000 00000.
 0 000 000 000 00 000 00 0 0000 00 00 000 000000 00000.