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[illegible][illegible]

000000 0 0000000000 0000 00000000 O-00 0000 00000000000000 000000 0000000000 0000000 0000000 000 00000000 00000 00000 0000 0000000000 00000000 00000000 0 0000000 0000000 PCB 0 PCBA 0000 00000000 00000000 00 000000 00000000 00000000 00 00000000.

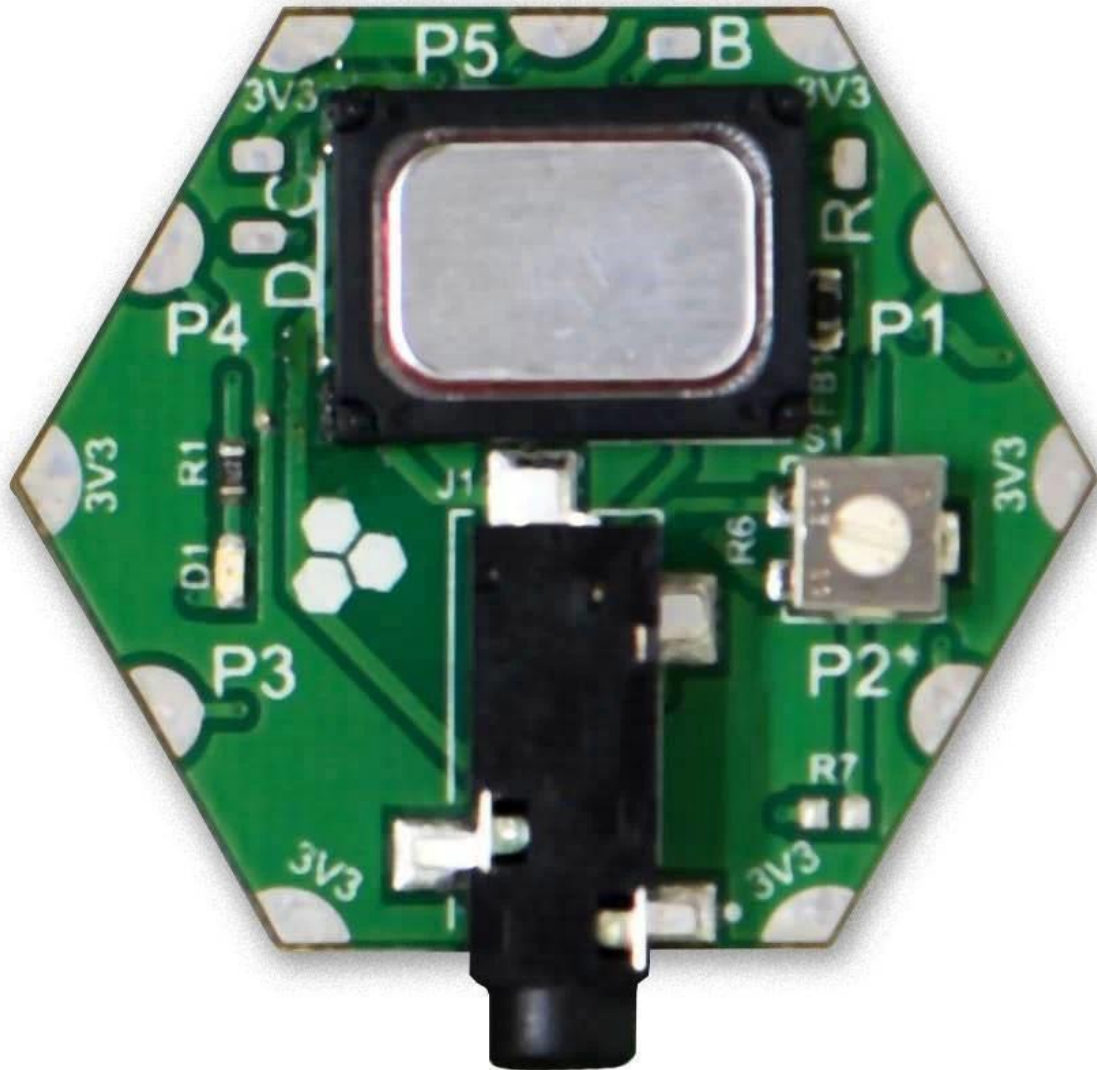
[illegible]

11111111 11111

H07R3x □□□□ □□□□ □□□□ □□□□ □□□□ □□□□ □□□□ □□□□ □□□□ □□□□ ST TS4990 1.2W □ STM32F0 MCU.

□□□□□□ □□□□□□ □□ □□□□ CUI .□□□□□ □□□□□ □□□□□ □□□□□ □□ 8 □□□□□□□□

0000 00 00000000 00000000 00000000 00000000 0000 0000 0000 MCU 00 00000000 00 00000000 hardware
00000000 000000 0000 0000 0000 / 000000.



:**ARM Cortex-M0 MCU**

STM32F091CBU6

32-bit

* ST TS4990IST :**4990IST**

THD = 1% $f = 1$ kHz 8 **dB** **PSRR** 62dB .**PSRR** 217 **dB**

* **PSRR** 62dB .**PSRR** 217 **dB**

PSRR 217 **dB** ***PSRR**

* CUI CDS-15118B 1W **Nd-Fe-B** 8 **mm**

* CUI SJ-3524-SMT-TR 3.5 .**PSRR** 217 **dB**

50 **kΩ** .(**PSRR** 217 **dB**) **PSRR** 217 **dB**

ARM Cortex-M0 MCU

* STM32F091CBU6 32 **bit** ARM Cortex-M0 MCU.

* .**PSRR** 217 **dB** 8 **mm**

PSRR 217 **dB** 3.3 **V** **PSRR** 217 **dB** * **GND**).

* 5 **mm** **PSRR** 217 **dB** xUART 2 **bit** xI2C **bit** SWD **bit** BOOT0 **bit** RESET.

00000000 000000 00000000

H07R30

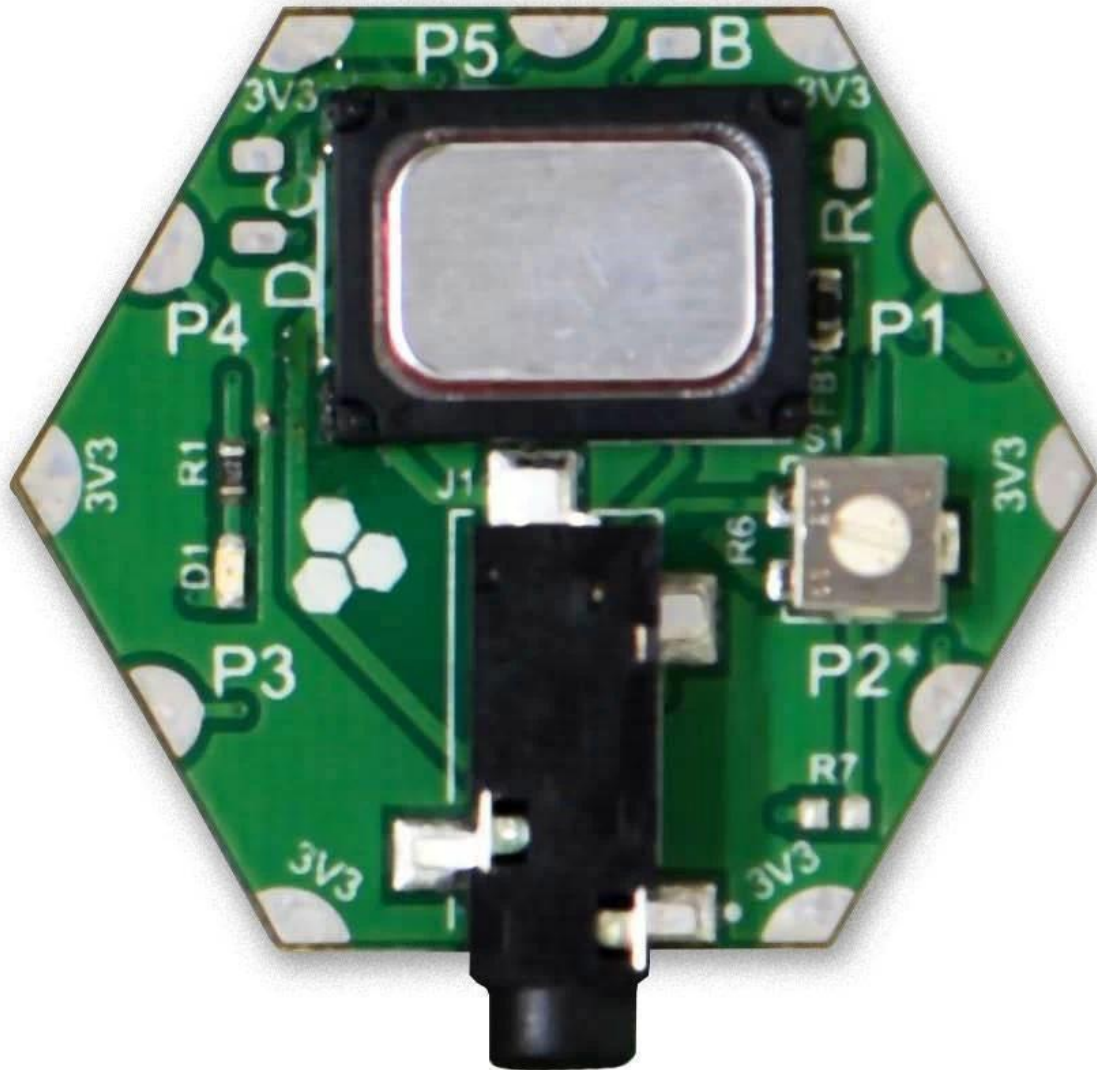
* 00000000 0000000 00000000.

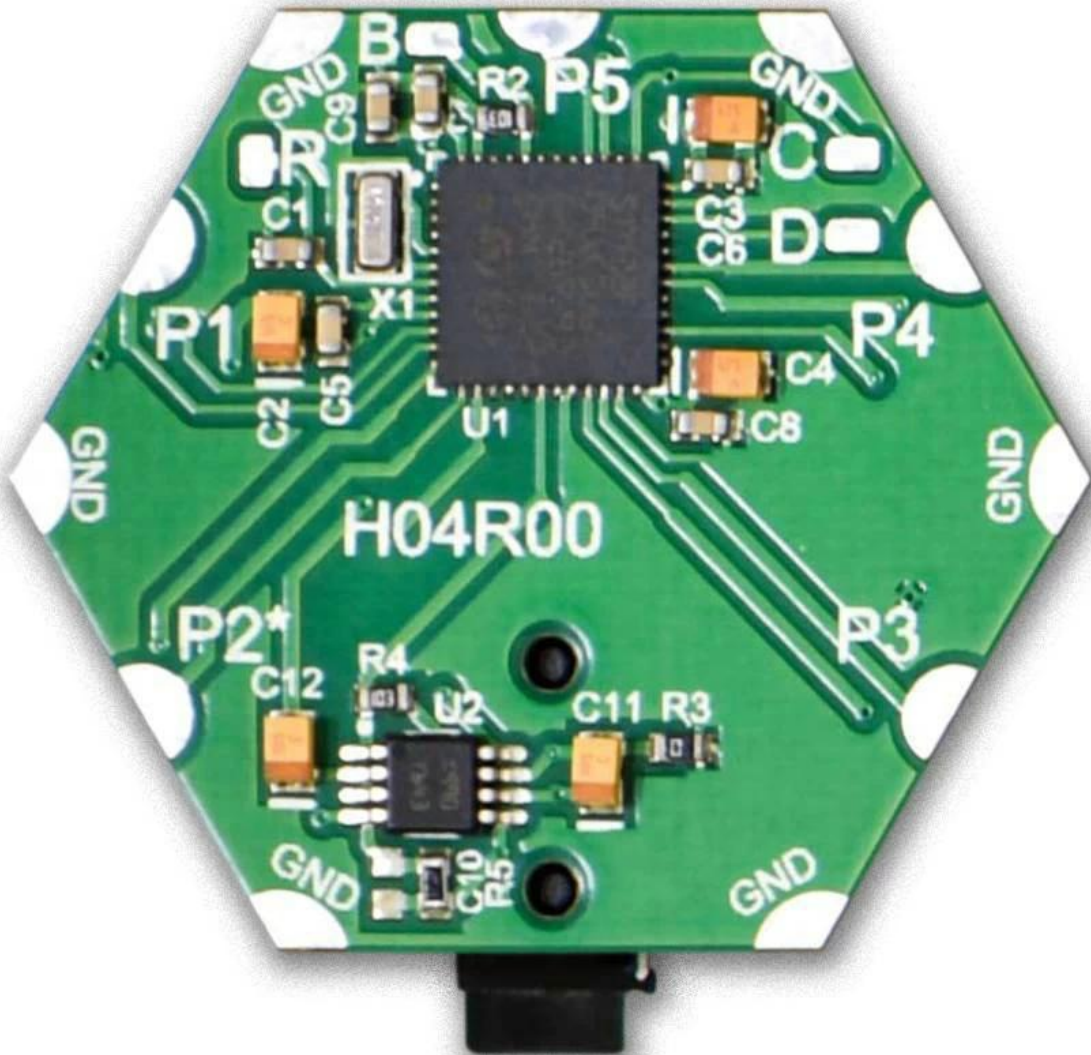
H07R31

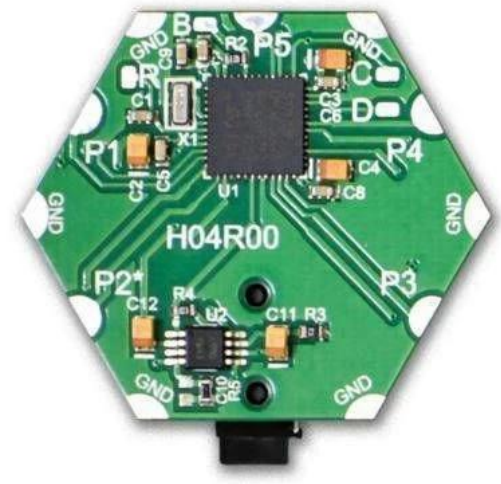
* 00000000 0000000 00000 00000 00000 0000 (C12) .000000 00000 000000 00000000
 000000000 000000 00000 000000000 0000000000 00000000 00000 0000 * (DNP).

* .000000 000000000 000000 00000 000000 00000 000000000 000000
 000000 00 * MCU 0000 STM32F091CCU6 0000000000 256 0000 00000000 0000 00000000.

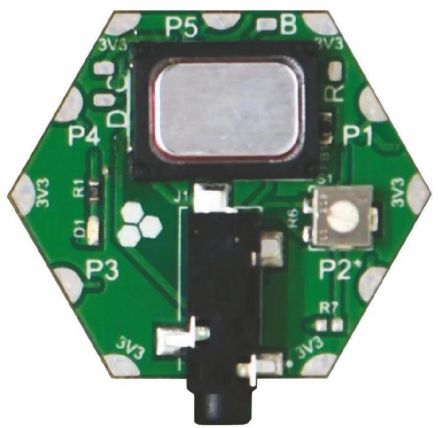
000000000000 00000000	
0000:	00000000 000000
00000:	0000 17.32 00000 0 00000 0000 30 0000
000000:	7.8 2 ^ 00
0000:	3 0
00000 00000:	00000 00000
00000000 0000:	ENIG (000 (00000 HASL-LF (000000))







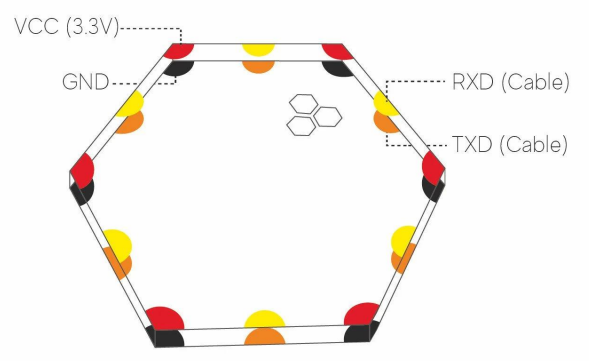
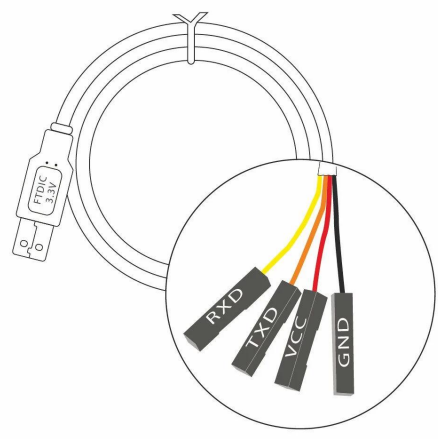
HEXABITZ QUICK START GUIDE

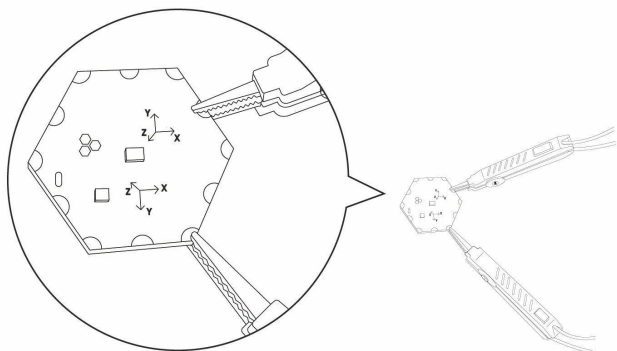


H07R3x

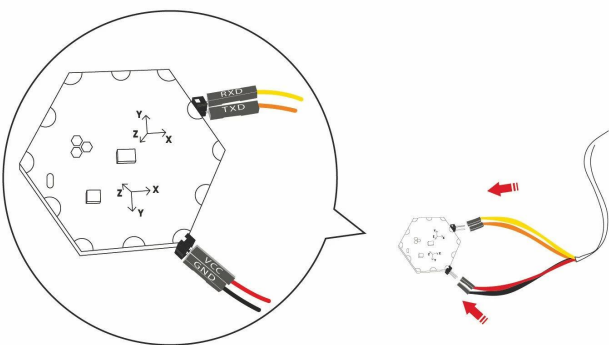
Audio speaker and
Headphone Jack

link

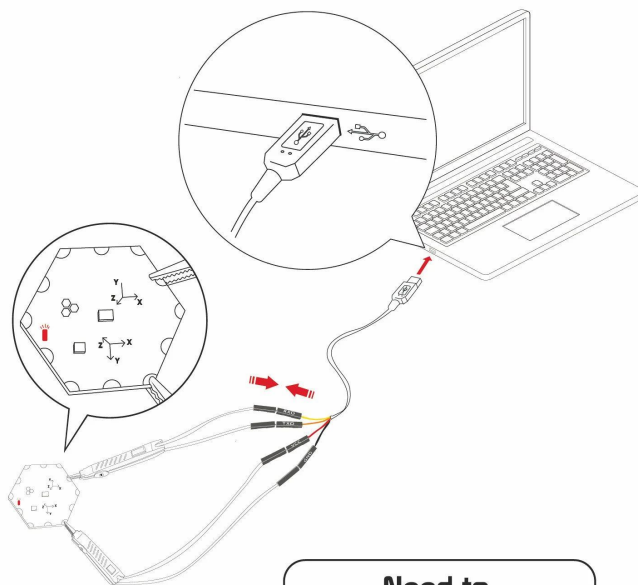




OR



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:

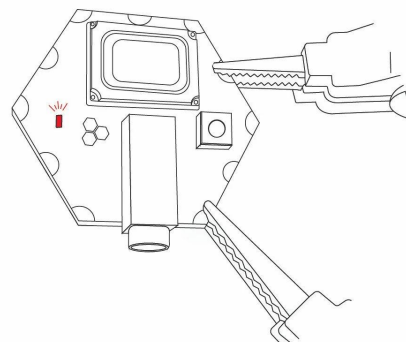
- o Baudrate: 921600
- o Display Format: Ansi
- o Parity: none
- o Data Bits: 8
- o Stop Bit: 1
- o Hardware Flow Control: none

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

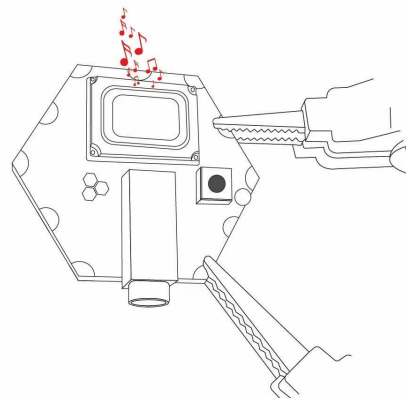
4

Try some CLI commands:

» ping



» play tune do re mi fa sol la si



5

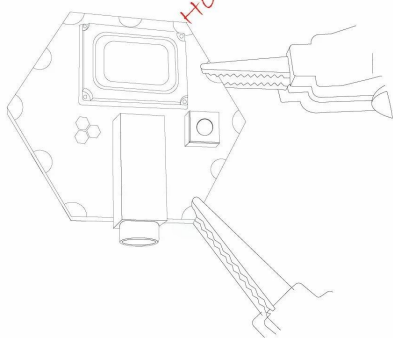
» list

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



فريقنا



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





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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中国·深圳·龙岗区坂田南环路43号江田工业园4楼SGS中国总部 邮编: 518129 | (86-755) 25326888 | (86-755) 83106190 | e.sas.china@sgs.com

Member of the SGS Group (SGS SA)



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

(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

[illegible]

SGS Bldg, 4/F, Jangde Industrial Park, No.400, Jiahu Road, Bantian, Lingyuan District, Shenzhen, China 518129 t (86-755) 25328888 f (86-755) 83106190 www.sgsgroup.com.cn
中国·深圳·龙岗区坪地街道430号江鹏工业园4楼SGS大厦 邮编: 518129 t (86-755) 25328888 f (86-755) 83106190 e sgsgchina@sgs.com

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

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

PCB 板厚	1.0mm 32- 36mm
PCB 板厚公差	1 / 3oz-12oz
PCB 板厚公差 / 板厚公差公差	3.0mm 3.0 / 0.1mm
PCB 板厚公差 / 板厚公差公差	4.0mm 4.0 / 0.1mm
PCB 板厚公差公差	10: 1
PCB 板厚公差	0.2mm 5.0 - 0.1mm
PCB 板厚公差公差 (板厚公差公差)	635 * 1500mm
PCB 板厚公差公差公差	4mm
PCB 板厚公差公差 Plated	+/- 3mm
Blind / Buried Vias (板厚公差 AII)	0.1mm
PCB 板厚公差公差公差 (板厚公差公差)	0.1mm
PCB 板厚公差	FR-4 或 FR-4hg Tg. 板厚公差公差 或 Rogers 或 板厚公差公差 或 板厚公差公差 板厚公差公差 板厚公差公差
PCB 板厚公差公差	HASL 或 OSP 或 ENIG 或 HAL-LF 或 Immersion silver 板厚公差公差 或 板厚公差公差 或 板厚公差公差

□□□□ □□□□ SMT

FR-4 ж CEM-1 ж CEM-3 ж қорытпалармен біріктірілген	
510x460 мм	
50x50 мм	
0.5 мм 4.5 - мм	
0.5-4 мм	
0201	
0603 жаппай	
15 мм	
0.3 мм	
0.4 мм	
+/- 0.03 мм	

التعبئة والتغليف والتسليم

Shipping service



03 O-Leading

FR4 PCB TG Rogers Arlon Telfon / PI .

04

4.1 4.2 PCB Gerber.

4.3 PCB PCBA.

4.4 .

4.5

05

AOI PTH E / T

06 HDI

VCP LDI

LDI Screen Hitachi

07

ENIG OSP LF-HASL BGA PAD 0.3

08 FPC O-Leading SMT

8 2000mm * 240mm "Flex Flexability" SMT

09

10 PCB PWB FPC

PWB Wire Wire Board FPC

11 PCB

Tg CTE 250

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000 00000 000000 / 000000 00000 000 0000 0000000 000 0 00000000000 0000000 000 0000000 0 000 000000
00000000 0000000000 0000000000 000000000 00000000 00000000 0 0000000 00000 0000000 000000 00000000 000000
0000000 0000000 00000000 000000 000000 00000000 0000000 0000000 000000 00000000 000000
.00000000

0000000 000000 000000000 000000 000000 00 00 **.12 ridid-flex** 0000000

000000 PCB 00 0000000 000000 O-00 00 00000000 00000000 FPC 0 PCB 0 0000000000 000 00 0000000000 00000 00000
0 0000000 0000000000 00000000 000000 00 000000 00 00000 0 000 000000 000000 000000 00000 00000 000000000 0000 .00000000
.00000000 00000000 00000000 000 00000000

00000000000 000000 00000 0000 **.13**

0000000000 000000 000 00000000000 0000000000 00 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.