

O-leading

O-Leading PCB PCB PCB PCB EMS HDIPCB PCB PCB PCB

O

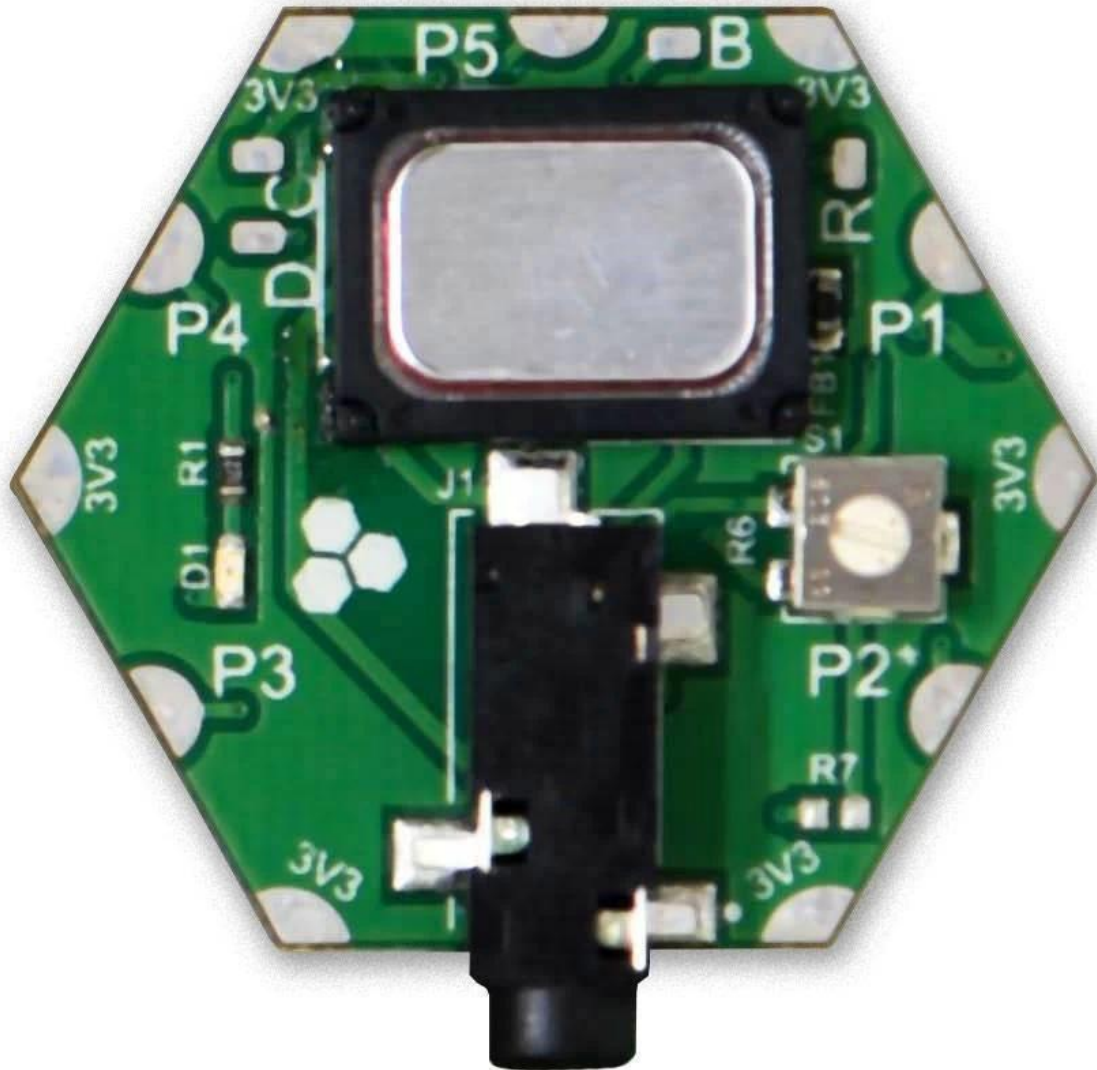
O-leading PCB&PCBA

[PCB](#) [BP](#)

H07R3x ST TS4990 1.2W STM32F0 MCU

8 CUI

MCU



□□□□□□□□

□□□□

□□□□□□□□

* ST TS4990IST□□□□□□□□□□□□□□

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

*□□□□□□□□ 217 Hz □ $62dB$ PSRR□

*□□□□□□□□□□□□□□□□□□

* CUI CDS-15118B $1W$ □Nd-Fe-B□ 8Ω □□□□□□□□

* CUI SJ-3524-SMT-TR $3.5mm$ □□□□□□□□□□□□□□□□□□□□□□

*□□□□□□□□□□□□□□□□ $50k\Omega$ □□□□□□□□□□□□□□□□□□

□□□□□□□□

* STM32F091CBU6 32 □□□ARM Cortex-M0 MCU□

* $8MHz$ □□□□□□□□□□

* 5 □□□□□□□□□□ 6 □□□□□□□□□□+ $3.3V$ □□□□GND□□

* $5x$ UART□ $2x$ I2C□SWD□BOOT0□RESET□□□□□□□□□□

□□□□□□□□□□□□

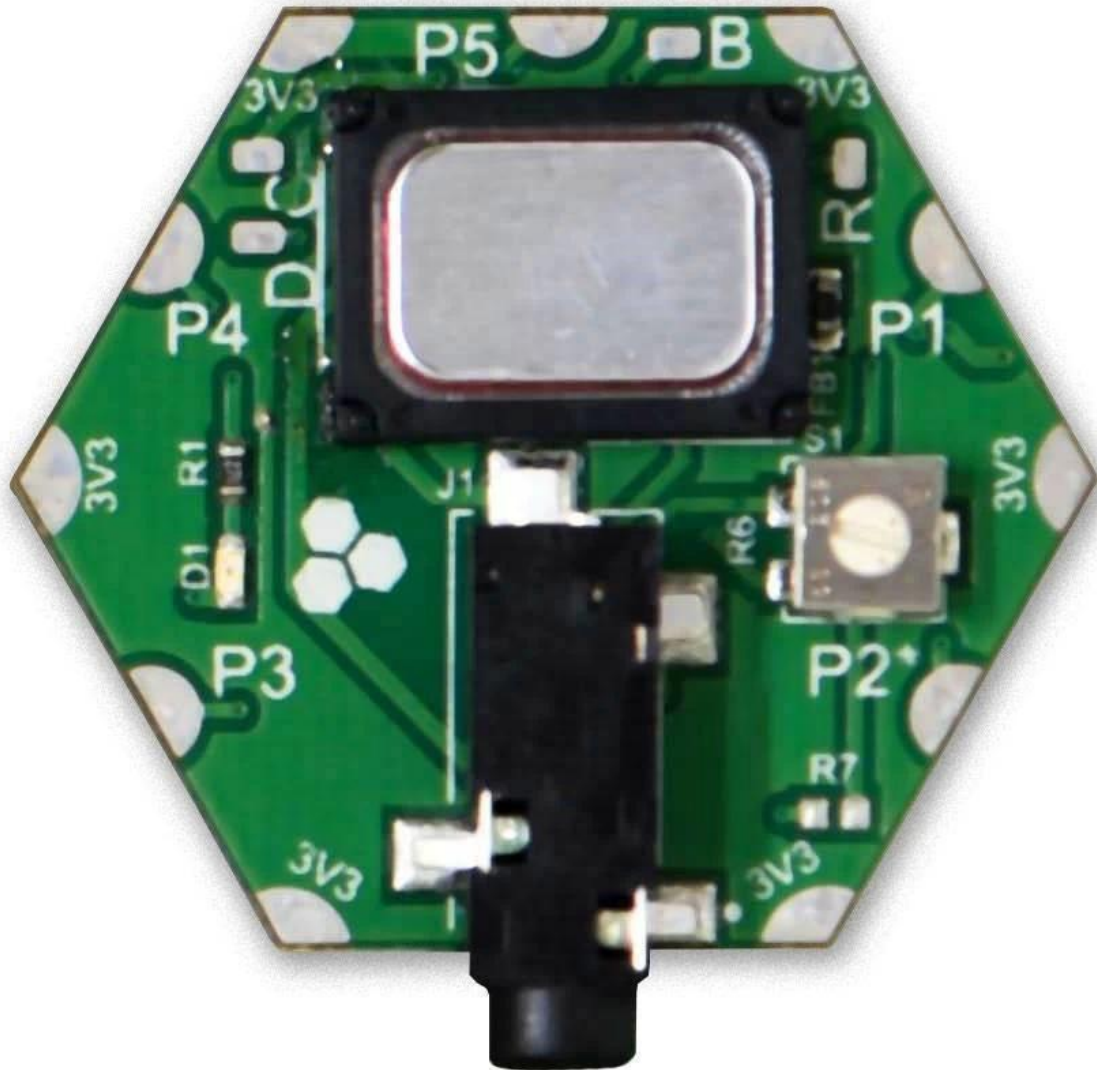
H07R30

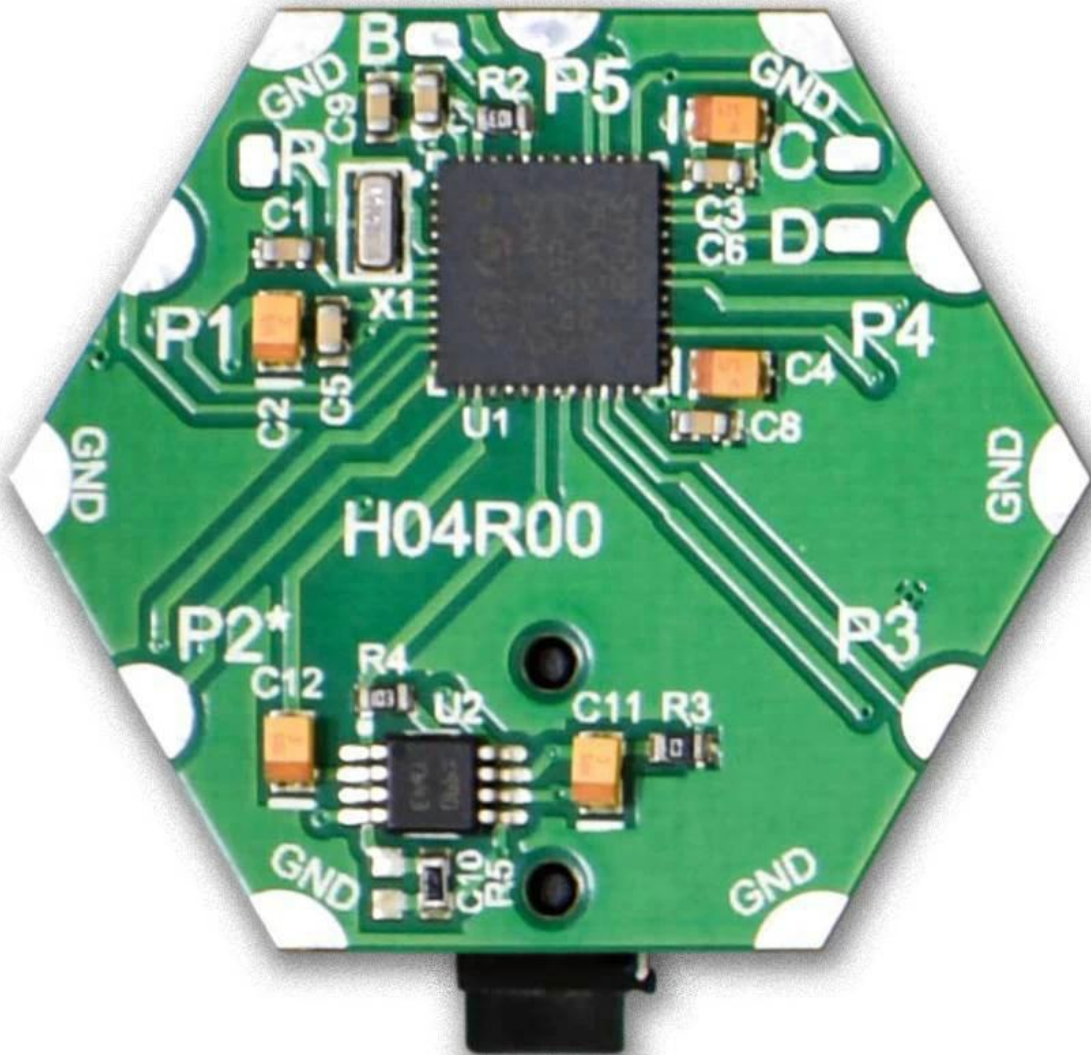
*□□□□□□□□□□□□

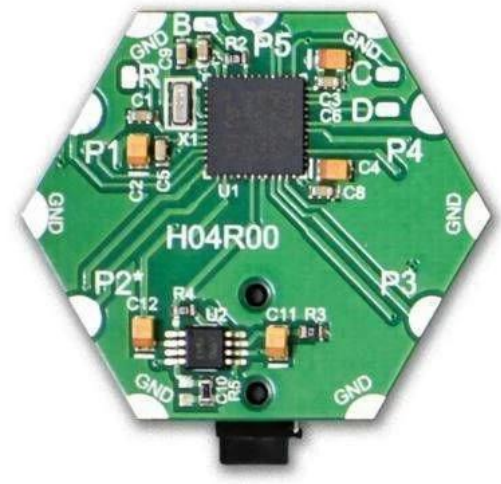
H07R31

- * DC□□□□□□□□□□C12□□□□□□□□□□□□□□□□□
- *□□□□□□□□□□□□□□□□DNP□□□□□□□□□□
- *□□□□□□□□□□□□□□□□□□□□□□□□
- * MCU□STM32F091CCU6□□□□□□□□□□□□□□□□256Kb□□□□□□□□□□

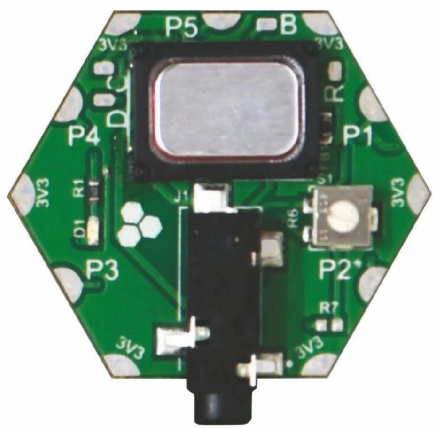
□□□□□	
□□□	□□□
□□□□	□□30 mm□□□17.32 mm
□□□	7.8cm ^ 2
□□□	□ g
□□□□□□□□□□	□□□□
□□□□□□	ENIG□□□□□□□□□□HASL-LF□□□□







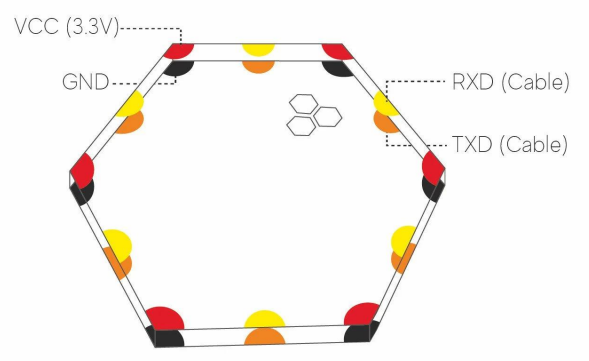
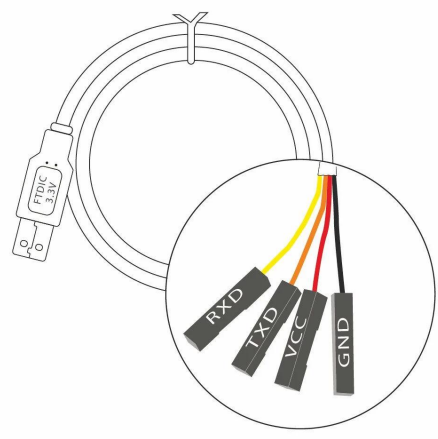
HEXABITZ QUICK START GUIDE

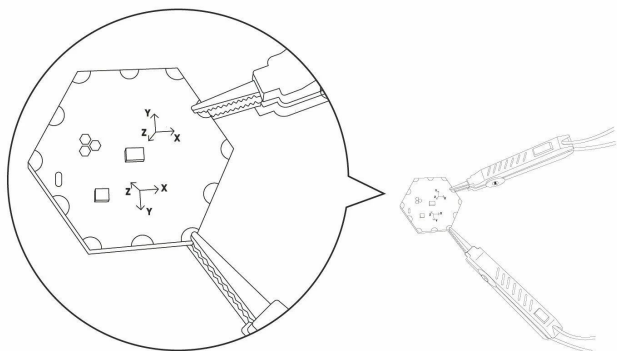


H07R3x

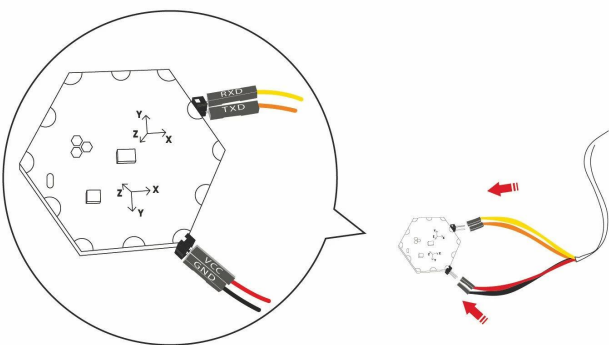
Audio speaker and
Headphone Jack

link

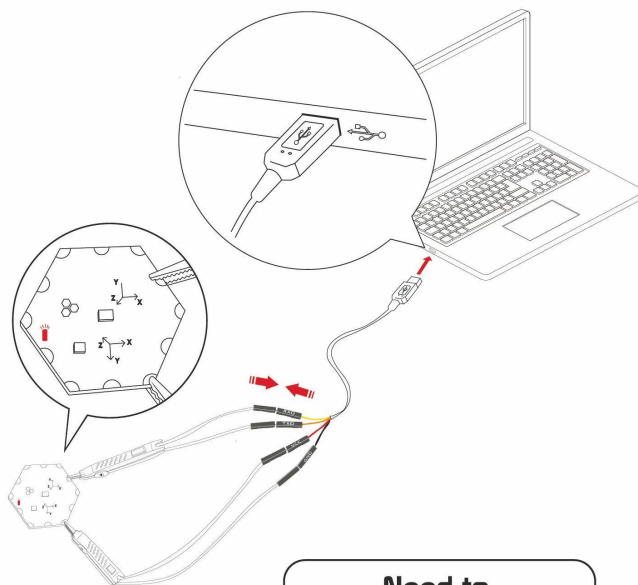




OR



2



3



RealTerm
(Windows)



Putty
(Windows/Mac/Linux)



SecureCRT
(Windows/Mac/Linux)

Use your favorite terminal software with these settings:

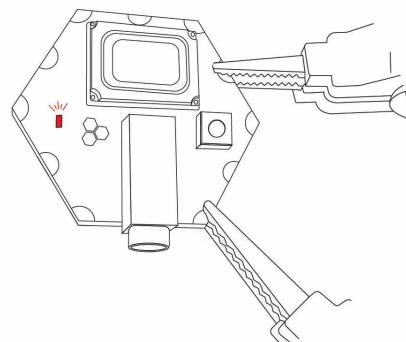
- o Baudrate: 921600
- o Display Format: Ansi
- o Parity: none
- o Data Bits: 8
- o Stop Bit: 1
- o Hardware Flow Control: none

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

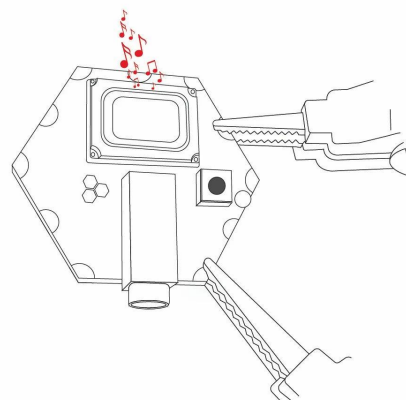
4

Try some CLI commands:

» ping



» play tune do re mi fa sol la si



5

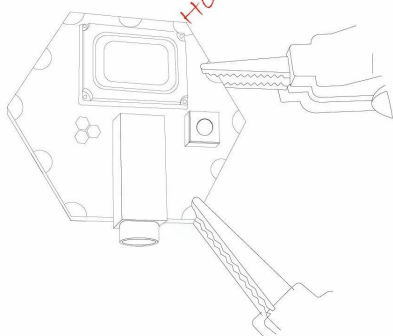
» list

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





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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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



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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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PCB

PCB	
Layer	1Layer-32Layer
Weight	1 / 3oz-12oz
Thickness	3.0mil / 3.0mil
Thickness	4.0mil / 4.0mil
Thickness	101
Thickness	0.2mm5.0mm
Thickness	635 * 1500mm
Thickness	4mil
Plated	+/- 3mil
Blind / Buried Vias	All
Via Fill	
FR-4	FR-4high Tg
OSP	HAL-LF

SMT	
PCB	FR-4CEM-1CEM-3
PCB	510x460mm
PCB	50x50mm
PCB	0.5mm4.5mm
PCB	0.54mm
PCB	0201
PCB	0603
PCB	15mm
PCB	0.3mm
BGA	0.4mm
PCB	+/- 0.03mm

PCB

Shipping service



4. PCB□□PCBA□□□□□□□□□□□□□□□□

4.1 BOM

4.2 PCB

4.3 PCBとPCBA

4.4 参考文献

4.5

5. PCB

[illegible]

6. HDI□□□□□□□□□□

00000000000000000000000000000000VCP000000000000LDI000

LDI

7. O-□□□□□□□□□□□□□□□□□□□□

O-ENIGOSP-LF-HASL/

OSI-ENIG-OSP + ENIG-HDI-BGAPAD-0.3 mm-OSP OSP + ENIG-BGAPAD-0.3 mm-OSP

8. FPC O-Leading SMT

O-Leading FPC 1 8 2000mm * 240mm SMT

9. PCB

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;;
;;
;;
;;
PCB;;
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;;

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10. PCB PWB FPC

PCB□□□□□□□□□□

PWB□Printed Wire Board□□□□□□□□□□□□□□□□

[illegible]

11. PCB

[illegible]

Tg

CTE

PCB 250°C 50

PCB/PCB

12. 0-leading PCB

O-leading PCB FPC PCB

13.

POLAR INSTRUMENTS SI6000 soft CITS 500s

[illegible]

