

PCB 製造工程の O-リーディング

O-リーディングは、製造工程において、EMS 企業が提供するサービスの一つです。O-リーディングは、PCBA (Printed Circuit Board Assembly) の製造工程において、部品を正確に配置し、溶接を行う工程です。

O-リーディングの製造工程は、以下の通りです：部品を正確に配置し、溶接を行う工程です。O-リーディングは、PCBA の製造工程において、部品を正確に配置し、溶接を行う工程です。

O-リーディングは、製造工程において、部品を正確に配置し、溶接を行う工程です。O-リーディングは、PCB (Printed Circuit Board) と PCBA (Printed Circuit Board Assembly) の製造工程において、部品を正確に配置し、溶接を行う工程です。

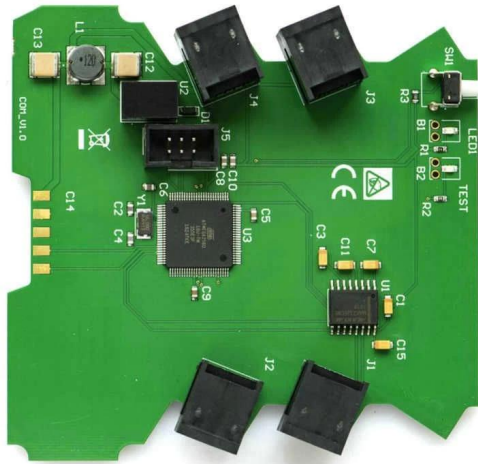
O-リーディングの製造工程は、以下の通りです：部品を正確に配置し、溶接を行う工程です。O-リーディングは、PCBA の製造工程において、部品を正確に配置し、溶接を行う工程です。

製造工程の概要

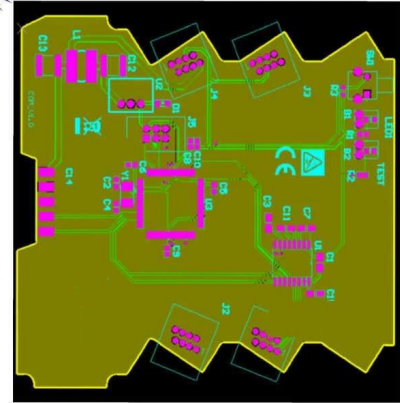
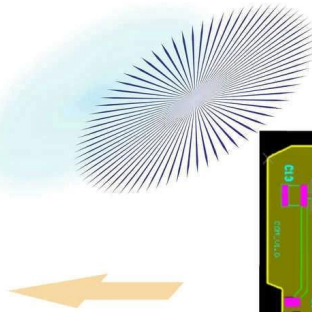
BOM

| Manufacturer | Manufacturer Part Number | Designator (required) | Qty (required) | Description (required) | Case |
|------------------|--------------------------|-----------------------|----------------|---|-----------|
| Panasonic | ERJ-3GEYJ331V | R2 | 1 | Thick Film Resistors 0603 330ohms 5% AEC-Q200 | 0603 |
| Panasonic | ERJ-6GEYJ103V | R3 | 1 | Thick Film Resistors 0805 10Kohms 5% AEC-Q200 | 0805 |
| Vishay | CRCW06031K00FKEAC | R1 | 1 | Thick Film Resistors - SMD 1/10Watt 1Kohms 1% Commercial Use | 0603 |
| ON Semiconductor | SZMMSZ4690T3G | D1 | 1 | 5.6 V Low Current Zener Diode Voltage Regulator | SOD-123-2 |
| TDK | CGA9N3X7S2A106K230KB | C12,C13 | 2 | 10µF ±10% 100V Ceramic Capacitor X7S 2220 (5750 Metric) | 2220 |
| KEMET | T491A105K016AT7280 | C1, C3, C7, C11, C15 | 5 | 1µF Molded Tantalum Capacitors 16V 1206 (3216 Metric) 100ohm | 1206 |
| KEMET | C0805J104K5RACAUTO | C5, C8, C9, C10 | 4 | Multilayer Ceramic Capacitors MLCC - SMD/SMT 50volts 0.1uF 10% X7R AUTO | 0805 |
| KEMET | C0805C220J4GACTU | C2,C4,C6 | 3 | Multilayer Ceramic Capacitors MLCC - SMD/SMT 16V 22pF COG 0805 0.05 | 0805 |

O-LEADING
FOR THE MANUFACTURE OF PCB AND PCBA



PCBA



PCB

O-LEADING
To Be Reliable. To Be Valuable.

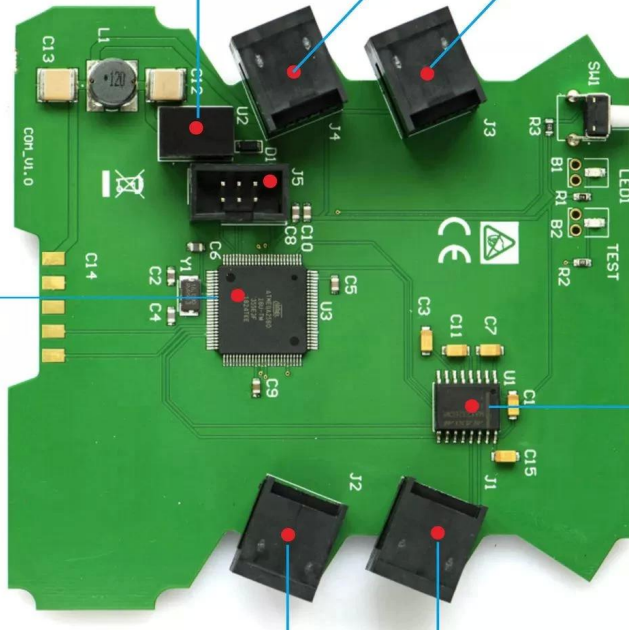
**Recom Switching
Regulator,
8 42V Input,
5V Output, 1A**

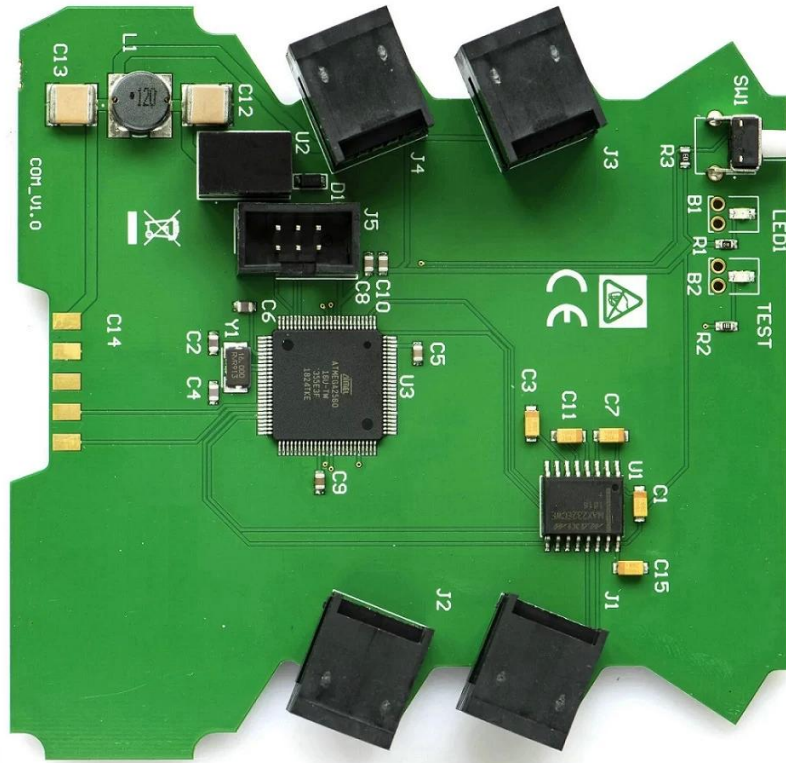
**Jack Modular Connector 8p8c
(RJ45, Ethernet) 90° Angle
(Right) Unshielded**

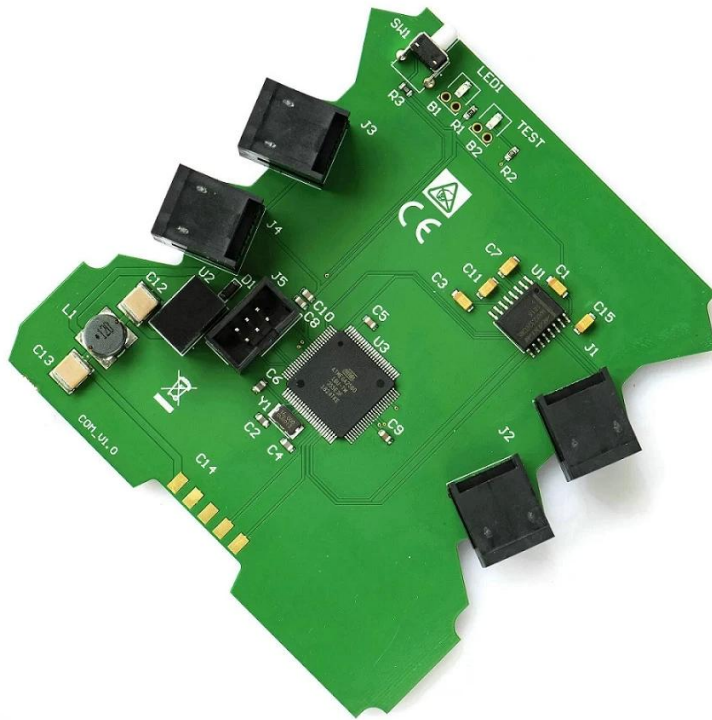
**Atmega
2560-16AU**

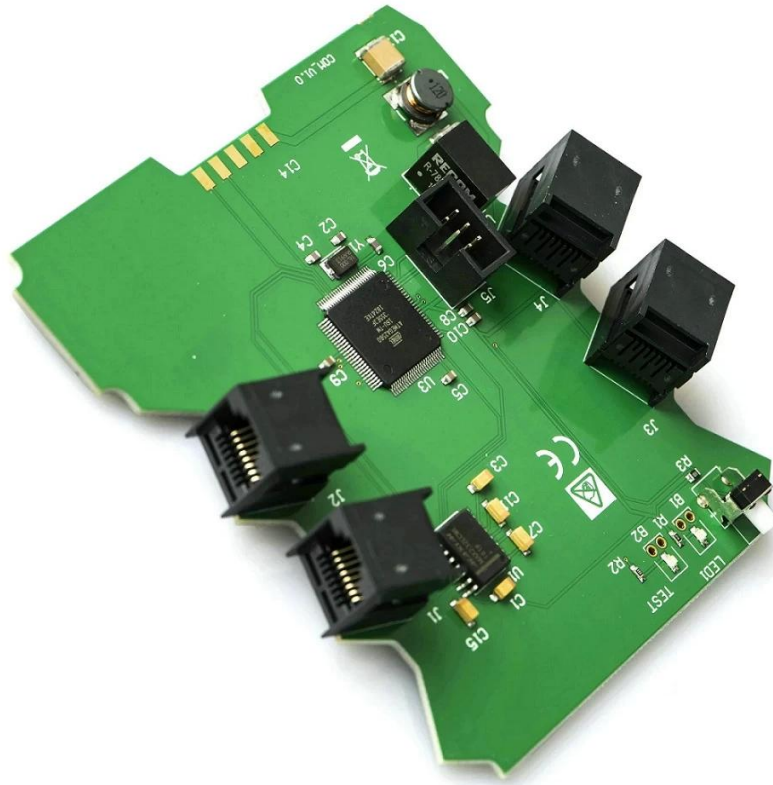
**IC TRANSCEIVER
FULL 2/2 16SOIC**

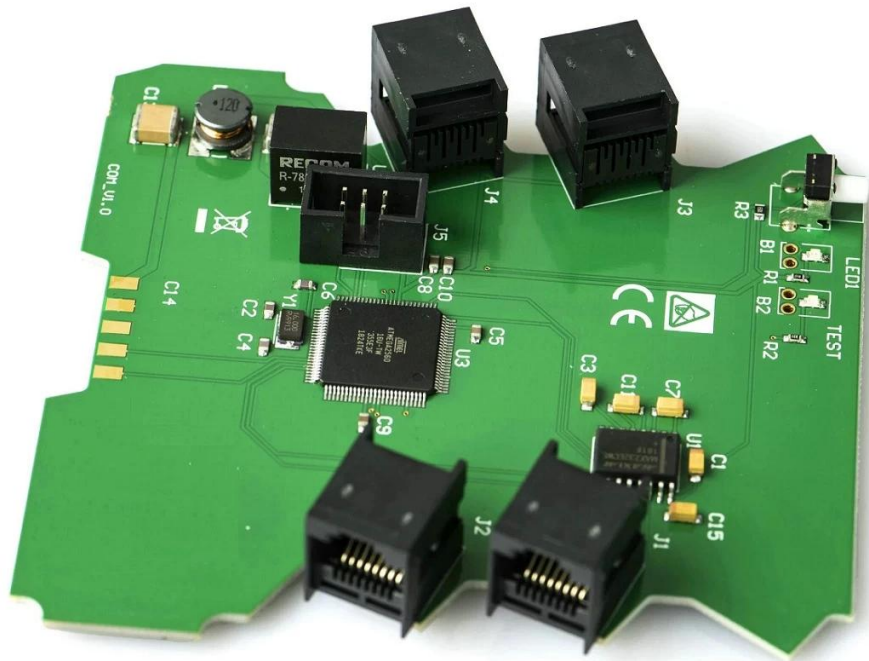
**Jack Modular Connector 8p8c
(RJ45, Ethernet) 90° Angle
(Right) Unshielded**











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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

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 |
|-----------------------------|------------------------------|----------------|

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 initial issuance of this certificate was suspended on the period of 2020 see china.gov.cn for the state of matters see china.gov.cn.






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

| | | |
|-------|-------|-----|
| 第一次监审 | 第二次监审 | 黏贴处 |
|-------|-------|-----|

本证书认证范围不包括未取得有效的国家规定的行政许可、资质许可的产品/服务范围; 本证书通过CICC定期监督审核保持, 与年度《保持认证通知书》共同方为有效; 本证书信息可在国家认监委网站: www.cnca.gov.cn及CICC网站www.cicc-cnc.com.cn








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



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, 027. Lists various substances like Cadmium, Lead, Mercury, Hexavalent Chromium, etc. with their respective limits and units.



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 | C | | |
|--|---------------|---------------|----------------------|-------------------|--------------|------------------|--------------|----------------|-------|-------|---|
| | Min | Edge | | | Area Diam | Solder Limits | Oper Temp | | | Flame | |
| | mm(in) | mm(in) | | | mm(in) | C | sec | C | Class | DSR | I |
| 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

| قدرات إنتاج ثنائي الفينيل متعدد الكلور | | SMT قدرات إنتاج | |
|---|---|---|--|
| عدد الطبقات | طبقة 32- طبقة 1 | مادة ثنائي الفينيل متعدد الكلور | لوح من الألومنيوم ، CEM-1 ، CEM-3 ، FR-4 |
| سمك النحاس النهائي | 1 / 3oz-12oz | الحد الأقصى لحجم ثنائي الفينيل متعدد الكلور | 510x460 مم |
| الحد الأدنى لعرض الخط / التباعد الداخلي | 3.0 ميل / 3.0 ميل | الحد الأدنى لحجم ثنائي الفينيل متعدد الكلور | 50x50 مم |
| الحد الأدنى لعرض / تباعد الخط الخارجي | 4.0 ميل / 4.0 ميل | سمك ثنائي الفينيل متعدد الكلور | 0.5 مم - 4.5 مم |
| أقصى نسبة العرض إلى الارتفاع | 10: 1 | سمك مجلس | 0.5-4 ملم |
| سمك مجلس | 0.2 مم - 5.0 مم | الحد الأدنى لحجم المكونات | 0201 |
| (الحد الأقصى لحجم اللوحة (بال بوصة | 635 * 1500 مم | مكون حجم رقاقة قياسي | 0603 وأكبر |
| الحد الأدنى لحجم الثقب المحفور | 4 ميل | ارتفاع المكون الأقصى | 15 ملم |
| Plated التسامح مع ثقب | میل 3 +/- | الحد الأدنى للرصاص | 0.3 ملم |
| Blind / Buried Vias (All أنواع) | نعم | الحد الأدنى لملمع الكرة بفا | 0.4 مم |
| (غير التعتية (موصلة وغير موصلة | نعم | دقة التنسيب | +/- 0.03 ملم |
| مادة أساسية | FR-4 ، FR-4hg Tg. ، هالوجين من الهالوجين ، Rogers ، مادة خالية من الهالوجين ، بوليميد ، نحاس ثقيل ، | | |
| التشطيبات السطحية | HASL ، OSP ، ENIG ، HAL-LF ، Immersion silver ، القصدير ، أصابع ، الذهب ، حبر الكربون | | |

التعبئة والتغليف والتسليم

Shipping service



.3 O-Leading

FR4 Rogers Arlon Telfon PI

.4

4.1 4.2 PCB Gerber.

4.3 PCB PCBA.

4.4

4.5

.5

AOI PTH AOI E / T

.6 HDI

VCP LDI

LDI Screen Hitachi

.7

ENIG OSP LF-HASL OSP ENIG + ENIG HDI OSP OSP + ENIG BGA PAD 0.3

.8 FPC O-Leading SMT

8 2000mm * 240mm "Flex Flexability" SMT

- 9

.10 PCB PWB FPC

PWB Wire Wire Board FPC

.11 PCB

Tg CTE 250

.00000 000 00000 50 0000

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

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

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

0000000000 000000 00000 0000 **.13**

0000000000 000000 0000 00000000000 0000000000 00 00000000 00000 000000 0000 0 SI6000 soft 00000000 CITS 500s 00
POLAR INSTRUMENTS.

0000000000 000000 00000 00000000 00000000 000000 0000000000 00000000 000000 0000000 00000000 000000 000000.