

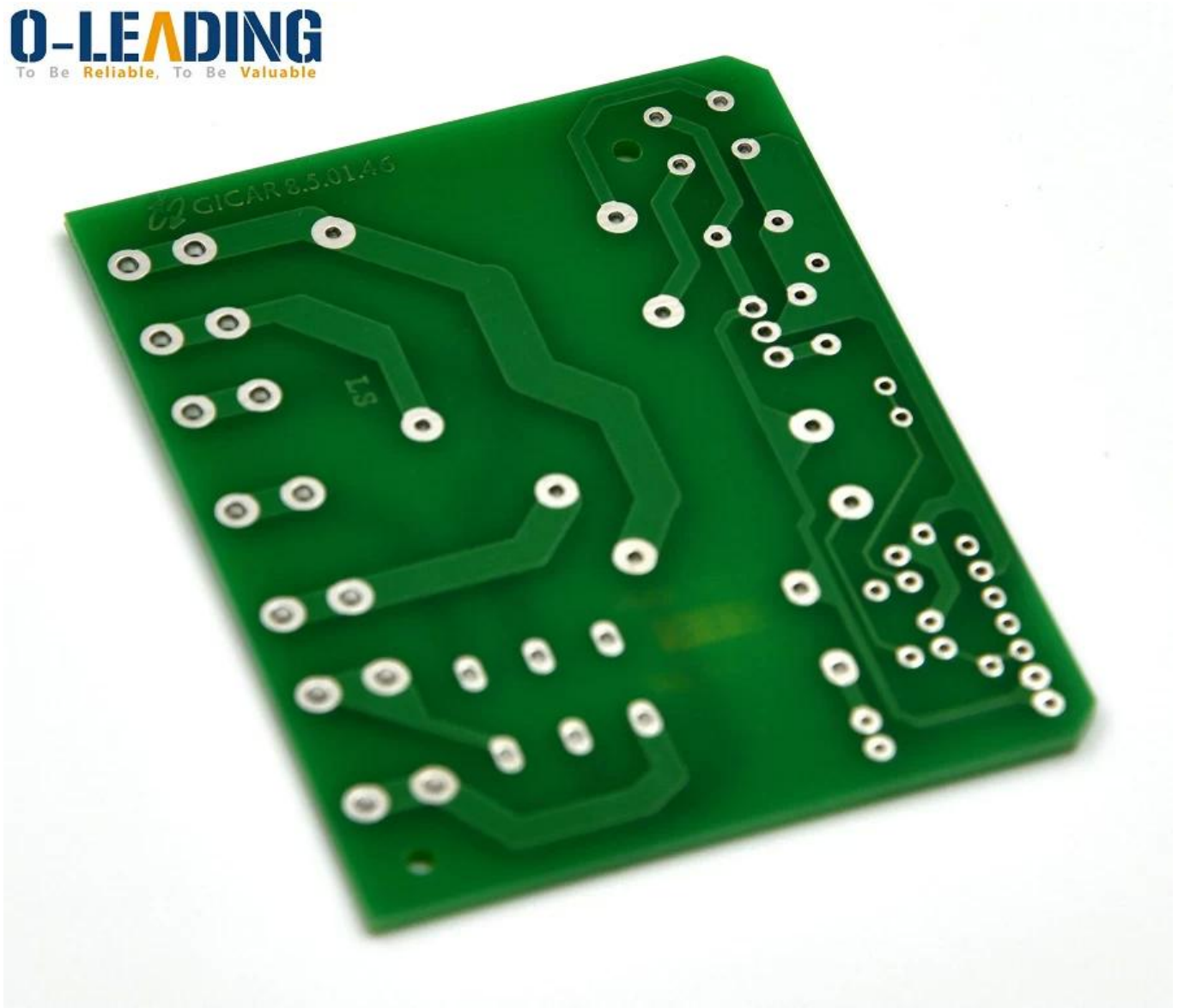


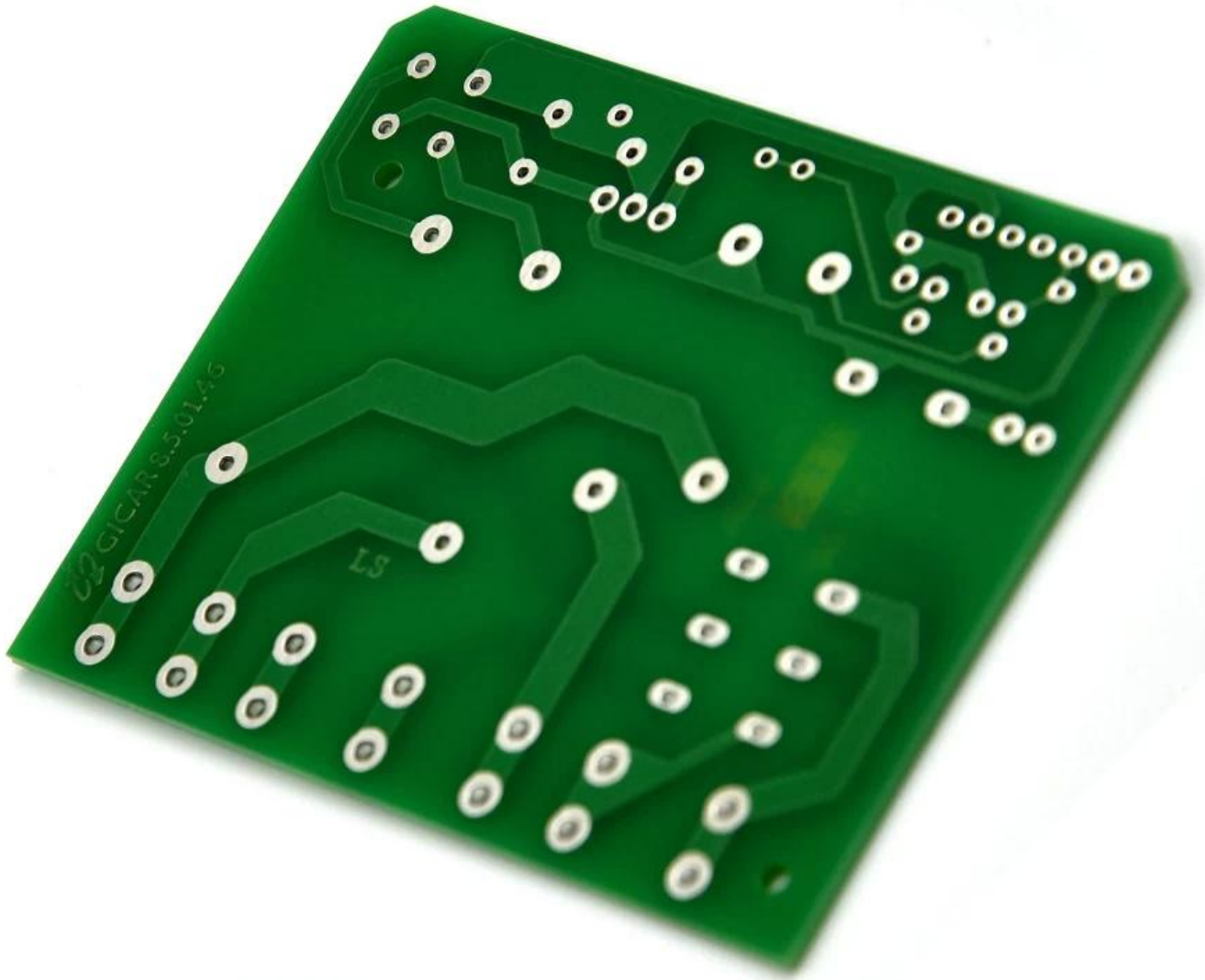
**O-LEADING**  
To Be Reliable, To Be Valuable

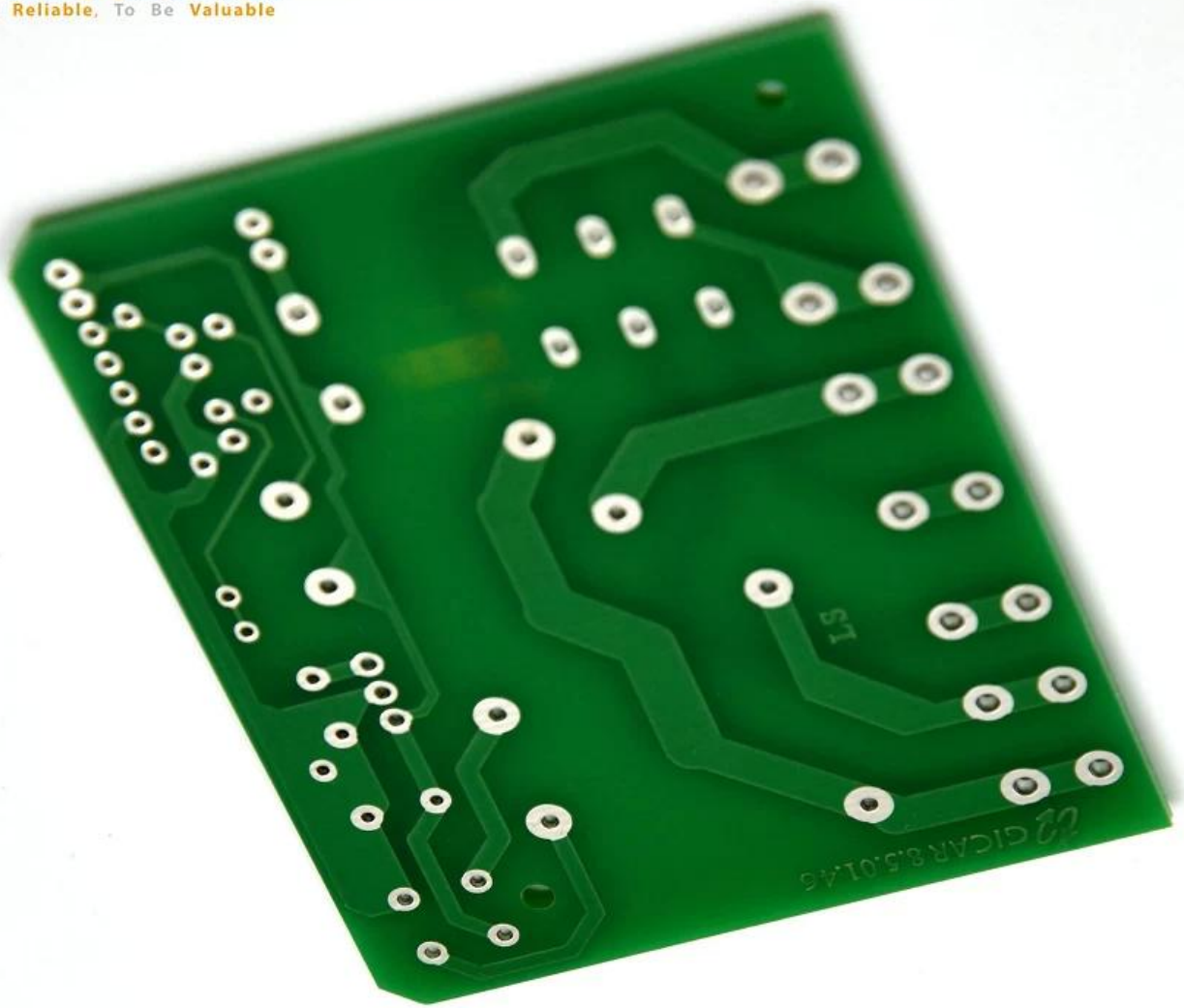
**QUALITY IS OUR CULTURE**











# Production Process

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



 CONSUMER ELECTRONICS

 AUTOMOTIVE ELECTRONICS

 INDUSTRIAL CONTROL

 INTELLECTUALIZED HOUSEHOLD CONTROL

 OTHER



**30%**  
CONSUMER ELECTRONICS



**18%**  
INTELLECTUALIZED HOUSEHOLD CONTROL

**20%**  
AUTOMOTIVE ELECTRONICS



**12%**  
OTHER

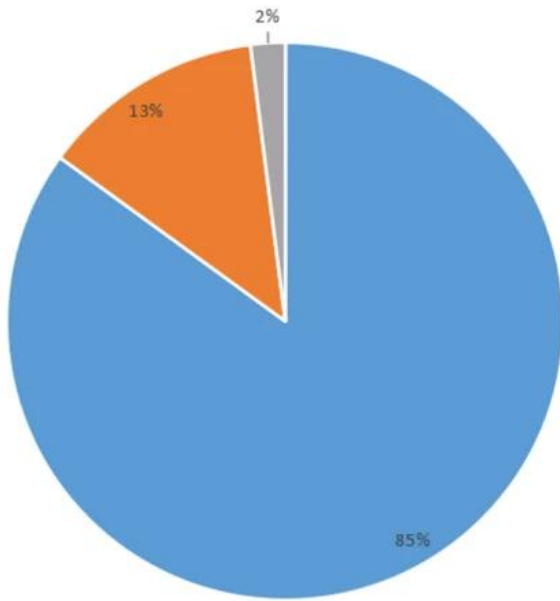


**20%**  
INDUSTRIAL CONTROL





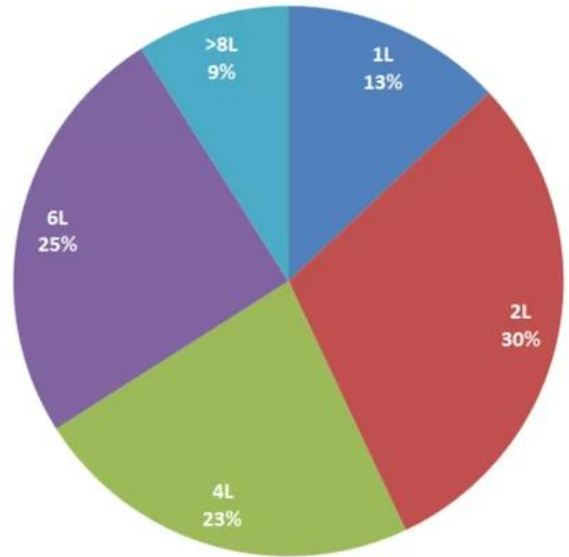
## Product types



■ FR-4 PCB ■ MC PCB ■ rigid-flexible PCB

## Product layers

■ 1L ■ 2L ■ 4L ■ 6L ■ >8L



فريقنا



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Factory PCB

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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  
 VOEUS BOAD CENTRAL HK  
 Business Add: 1313, Floor 13, Fortune Building, Danshui Town, Huiyang  
 District, Huizhou, Guangdong, China

Has implemented and maintains a **Quality Management System**  
 Which fulfils 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 certification implementation scope does not include those production services which shall be obtained by the relevant effective administrative procedures and qualification procedures regulated by the state. The effectiveness of this certificate shall be notified by annual surveillance audits of CICC. The certificate shall be valid when used together with the surveillance audit certificate. The initial information of this certificate can be searched at the portal of CICC: www.cicc.com.cn. For the sake of clarity see also the text.






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

初次发证日期: 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	粘标处
-------	-------	-----

本证书认证范围不包括未获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.com.cn查询。



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 :

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 heavy metals and phthalates with their respective limits and detection results.



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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			SS/ DS/ DSO	Max	Max			Meets UL796	C T	
	Min	Cond	Area		Solder	Flame	Class				
	Min	Edge			Limits			Oper			
mm(in)	mm(in)	Thk	Diam	C	sec	C	DSR	I			
<b>Multilayer (mass laminate) printed wiring boards.</b>											
<b>O-LEADING-401</b>	0.1 (0.004)	0.3 (0.012)	34 (1.34)	DS	12.7 (0.5)	260	10	130	V-0	-	-
<b>O-LEADING-407</b>	0.08 (0.003)	0.2 (0.008)	17 (0.67)	DS	9.7 (0.4)	260	10	130	V-0	All	-
<b>Multilayer printed wiring boards.</b>											
<b>O-LEADING-408</b>	0.125 (0.005)	0.125 (0.005)	12 (0.47) Int:136	DS	50.8 (2.0)	280	20	130	V-0	All	*
<b>Single layer printed wiring boards.</b>											
<b>O-LEADING-002</b>	0.38 (0.015)	1.14 (0.045)	34 (1.34)	SS	19.1 (0.8)	260	10	105	V-0	All	-
<b>O-LEADING-003</b>	0.38 (0.015)	1.14 (0.045)	34 (1.34)	SS	19.1 (0.8)	260	10	130	V-0	▲	-
<b>O-LEADING-033</b>	0.15 (0.006)	0.3 (0.012)	34 (1.34)	SS	25.4 (1.0)	260	10	120	V-0	All	-
<b>O-LEADING-205</b>	0.1 (0.004)	0.3 (0.012)	34 (1.34)	DS	69.6 (2.7)	260	10	130	V-0	All	-
<b>O-LEADING-206</b>	0.15 (0.006)	0.33 (0.013)	17 (0.67)	DS	69.6 (2.7)	260	10	130	V-0	All	-
<b>O-LEADING-D01</b>	0.14 (0.006)	0.15 (0.006)	33 (1.30)	DS	25.4 (1.0)	260	10	130	V-0	All	*
<b>O-LEADING-S01</b>	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

<b>O-LEADING-S02</b>	0.2 (0.008)	0.2 (0.008)	17 (0.67)	SS	25.4 (1.0)	260	4	130	HB	▲	*
<b>O-LEADING-S03</b>	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

القدرة القصوى	1 32
القدرة القصوى	1 / 3oz-12oz
القدرة القصوى / القدرة القصوى	3.0 3.0 /
القدرة القصوى / القدرة القصوى	4.0 4.0 /
القدرة القصوى	10: 1
القدرة القصوى	0.2 5.0 -
القدرة القصوى (القدرة القصوى)	635 * 1500
القدرة القصوى	4
القدرة القصوى Plated	+/- 3
Blind / Buried Vias (AII)	
القدرة القصوى (القدرة القصوى)	
القدرة القصوى	FR-4 FR-4hg Tg. Rogers
القدرة القصوى	HASL OSP ENIG HAL-LF Immersion silver Immersion

## القدرة القصوى SMT

القدرة القصوى	FR-4 CEM-1 CEM-3
القدرة القصوى	510x460
القدرة القصوى	50x50
القدرة القصوى	0.5 4.5 -
القدرة القصوى	0.5-4
القدرة القصوى	0201
القدرة القصوى	0603
القدرة القصوى	15
القدرة القصوى	0.3
القدرة القصوى	0.4
القدرة القصوى	+/- 0.03

# التعبئة والتغليف والتسليم

# 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

# التعليمات

## 1. اختبار O-Leading

يتم اختبار O-Leading في جميع الحالات. يجب أن تكون العملية متوافقة مع المواصفات القياسية 1.1 ISO 9001: 2008. 1.2 يجب أن تكون العملية متوافقة مع المواصفات القياسية 1.3 AOI (اختبار الخطأ البصري الآلي) في جميع الحالات. 1.4 يجب أن تكون العملية متوافقة مع المواصفات القياسية 1.5

## 2 O-Leading

يتم اختبار O-Leading في جميع الحالات. يجب أن تكون العملية متوافقة مع المواصفات القياسية 31 في جميع الحالات. 1.3 AOI (اختبار الخطأ البصري الآلي) في جميع الحالات. 1.4 يجب أن تكون العملية متوافقة مع المواصفات القياسية 1.5

**.3 O-Leading**

FR4 TG / 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 .

Mitsubishi Hitachi LDI Screen Hitachi .

**.7**

ENIG OSP LF-HASL OSP ENIG OSP + 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 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  
PCB 000000 00000 0000000 00000 00000000 0000000000 0000000000 00000000 00000000 00000000 00000000 000000 00000  
.00000000 0000000 000000 00000000 0000000 00000 000000 000000000 0000000 0000000 0 00000

0000000 00000 00000000 000000 000000 00 00 **.12 ridid-flex** 00000000 000000 00000000 000000  
000000 PCB 00 00000000 000000 O-00 00 00000000 0000 00000000 FPC 0 PCB 0 000 00 0000000000 00000 00000  
0000000000 000000000 000000 00 000000 00 00000 0 0000 000000 000000 00000 00000 000000000 0000 .00000000 0000000000  
.00000000 00000000 00000000 0000 00000000 0 00000000

0000000000 000000 00000 0000 **.13**

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

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