











www.o-leading.com









QUALITY MANAGEMENT SYSTEM CERTIFICATE
 Certificate No: 16118Q10347R05

We hereby certify that
O-LEADING SUPPLY CHAIN(HK) CO.,LIMITED
 Credit No: 61691591-000-07-17-2
 Registration Add: ROOM 603D 6/F HANG PONT COMMERCIAL BUILDING,31 TONKIN ST,CHEUNG SHA WAN,KL, HK
 Business Add: 1313 Floor 13 Fortune Building, Danstui 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
 This certificate is valid during: February 27, 2018 -- February 26, 2021
 This certificate is invalid without CICC qualified label in the following period

First supervision and audit	Qualified mark	Second supervision and audit	Qualified mark
-----------------------------	----------------	------------------------------	----------------

The certification registration scope shall include those production services scope which fall to be covered by the relevant effective administrative permission and qualification permission required by the state. The effectiveness of this certificate shall be evaluated by annual surveillance audit of CICC. The certificate shall be valid when used together with the surveillance audit conclusion. The related information of this certification can be searched at the public website of company www.cicc.com.cn.

201726 201VZL430354 - Wiring, Printed - Component

ZPMV2.E490354
Wiring, Printed - Component

For enhanced search functionality, please visit UL's [UL Product Databases](#).
 Click on a product designation for complete information.
[Page Bottom](#)

Wiring, Printed - Component

See General Information for Wiring, Printed - Components

O-LEADING SUPPLY CHAIN CO LIMITED 4190354
 Fortune Building, Nanheng West Road
 Room 1313
 Huizhou, Guangdong 516211, CHINA

Type	Cond Width			SS/ DS/ Diam	Area Diam	Solder		Temp		Flame	RoHS	C
	Min	Max	Min			Max	Class	DSR				
Hull/Bayer (mass laminate) printed wiring boards.												
O-LEADING-401												
	0.2 (0.004)	0.3 (0.012)	34 (1.34)	D6	12.7 (0.5)	260	10	130	V-0	-	-	-
O-LEADING-407												
	0.08 (0.003)	0.2 (0.008)	17 (0.67)	D5	9.2 (0.4)	260	10	170	V-0	NI	-	-
Hull/Bayer printed wiring boards.												
O-LEADING-408												
	0.125 (0.005)	0.125 (0.005)	12 (0.47) 31-135	D6	50.8 (2.0)	260	20	130	V-0	NI	-	-
Single layer printed wiring boards.												
O-LEADING-002												
	0.76 (0.015)	1.14 (0.045)	34 (1.34)	S5	19.1 (0.8)	260	10	105	V-0	NI	-	-
O-LEADING-003												
	0.38 (0.015)	1.14 (0.045)	34 (1.34)	S5	19.1 (0.8)	260	10	130	V-0	▲	-	-
O-LEADING-033												
	0.15 (0.006)	0.3 (0.012)	34 (1.34)	S5	25.4 (1.0)	260	10	120	V-0	NI	-	-
O-LEADING-205												
	0.1 (0.004)	0.3 (0.012)	34 (1.34)	D6	69.6 (2.7)	260	10	130	V-0	NI	-	-
O-LEADING-206												
	0.15 (0.006)	0.33 (0.013)	17 (0.67)	D5	69.6 (2.7)	260	10	130	V-0	NI	-	-

* - 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.
 Last updated on 2017-01-27

Questions? [Print this page](#) [Terms of Use](#) [Page Top](#)

http://www.ul.com/ulcertification/603547/201VZL430354/Wiring,Printed-Component



Test Report No. CANEC1805164701 Date: 03 Apr 2018 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. **SGS Sample ID** **Description**
 SN1 CAN18-051647.001 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 62321-4:2014+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	Det
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	9
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	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



SGS is pleased to announce the launch of its new RoHS testing service. This service is designed to help manufacturers and suppliers ensure compliance with the RoHS Directive (EU) 2011/65/EU and its amendments. The service covers the testing of various types of PCBs, including single-layer, double-layer, and multi-layer boards. The testing is performed using advanced analytical techniques, including ICP-OES, UV-Vis, and GC-MS. The results are provided in a clear and concise report, which can be used for internal quality control and for providing evidence to customers and regulatory authorities. For more information, please contact your local SGS office or visit our website at www.sgs.com.

Member of the SGS Group (SGL SA)

3. 0.1mm pitch 0.5mm diameter microvias O-Leading

FR4 substrate TG / microvias diameter 0.5mm / microvias pitch 0.1mm / microvias depth 0.1mm / microvias wall thickness 0.02mm / microvias bottom diameter 0.4mm / microvias top diameter 0.5mm / microvias annular ring thickness 0.02mm / microvias annular ring width 0.02mm.

4 - microvias diameter 0.5mm / microvias pitch 0.1mm / microvias depth 0.1mm / microvias wall thickness 0.02mm / microvias bottom diameter 0.4mm / microvias top diameter 0.5mm / microvias annular ring thickness 0.02mm / microvias annular ring width 0.02mm

Gerber 274-X. microvias diameter 0.5mm / microvias pitch 0.1mm / microvias depth 0.1mm / microvias wall thickness 0.02mm / microvias bottom diameter 0.4mm / microvias top diameter 0.5mm / microvias annular ring thickness 0.02mm / microvias annular ring width 0.02mm Cam350 CAD Protel 99se PADS DXP Eagle.

5. microvias diameter 0.5mm / microvias pitch 0.1mm / microvias depth 0.1mm / microvias wall thickness 0.02mm / microvias bottom diameter 0.4mm / microvias top diameter 0.5mm / microvias annular ring thickness 0.02mm / microvias annular ring width 0.02mm

microvias diameter 0.5mm ← microvias pitch 0.1mm ← microvias depth 0.1mm ← AOI ← microvias wall thickness 0.02mm ← microvias bottom diameter 0.4mm ← microvias top diameter 0.5mm ← PTH ← microvias annular ring thickness 0.02mm ← microvias annular ring width 0.02mm ← microvias diameter 0.5mm ← microvias pitch 0.1mm ← microvias depth 0.1mm ← microvias wall thickness 0.02mm ← microvias bottom diameter 0.4mm ← microvias top diameter 0.5mm ← microvias annular ring thickness 0.02mm ← microvias annular ring width 0.02mm AOI ← microvias diameter 0.5mm ← microvias pitch 0.1mm ← microvias depth 0.1mm ← microvias wall thickness 0.02mm ← microvias bottom diameter 0.4mm ← microvias top diameter 0.5mm ← microvias annular ring thickness 0.02mm ← microvias annular ring width 0.02mm ← E / T ← microvias diameter 0.5mm.