

O-leading

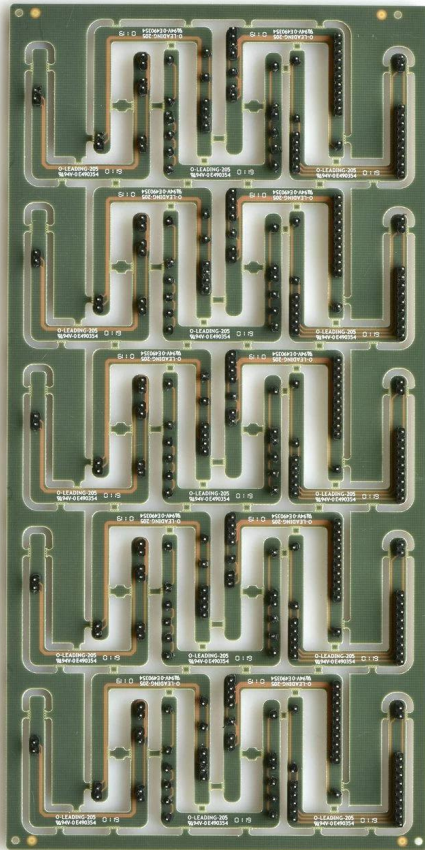
O-Leading PCB PCB PCB PCB PCB EMS HDI PCB PCB PCB PCB PCB

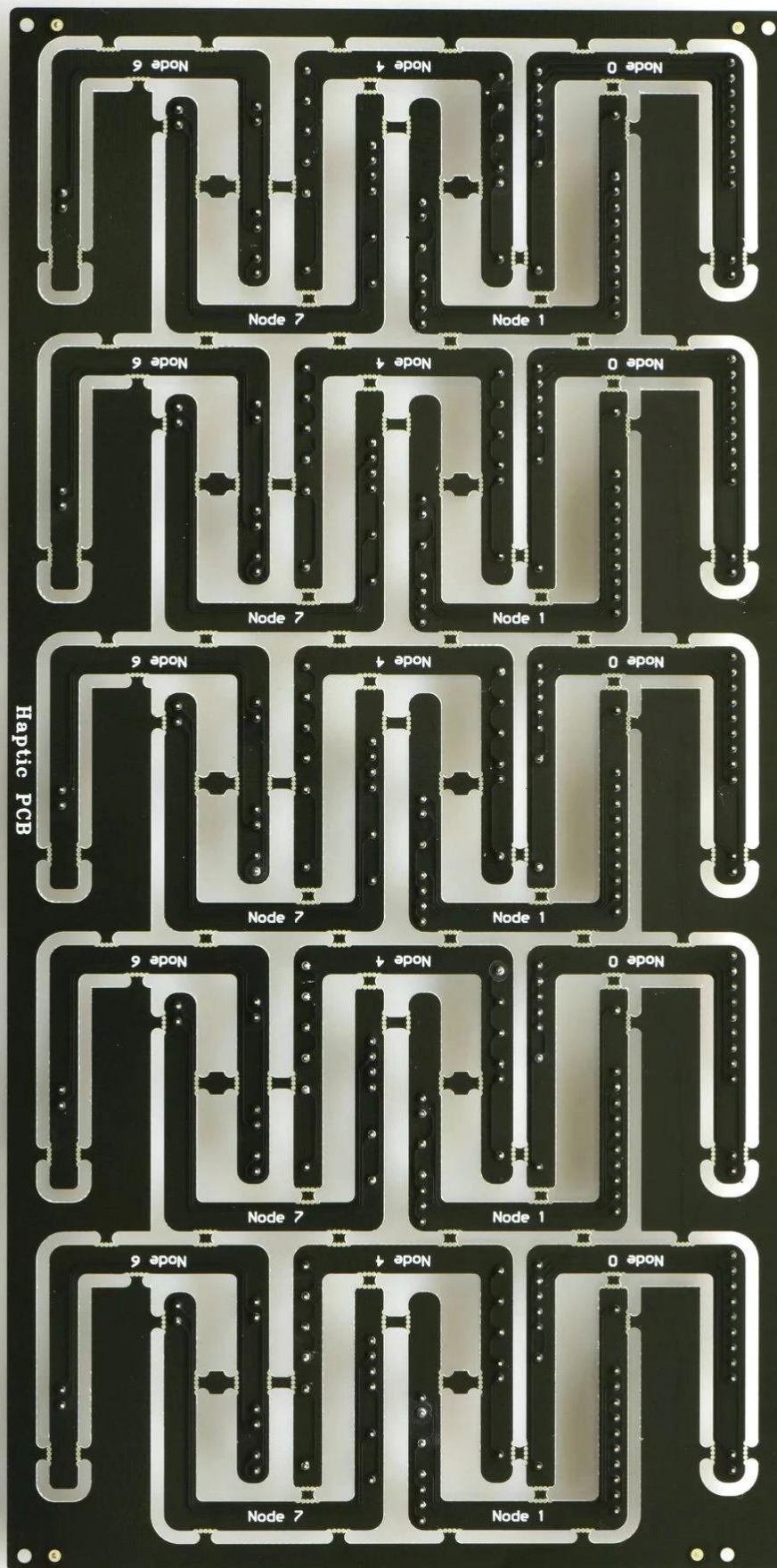
O-leading

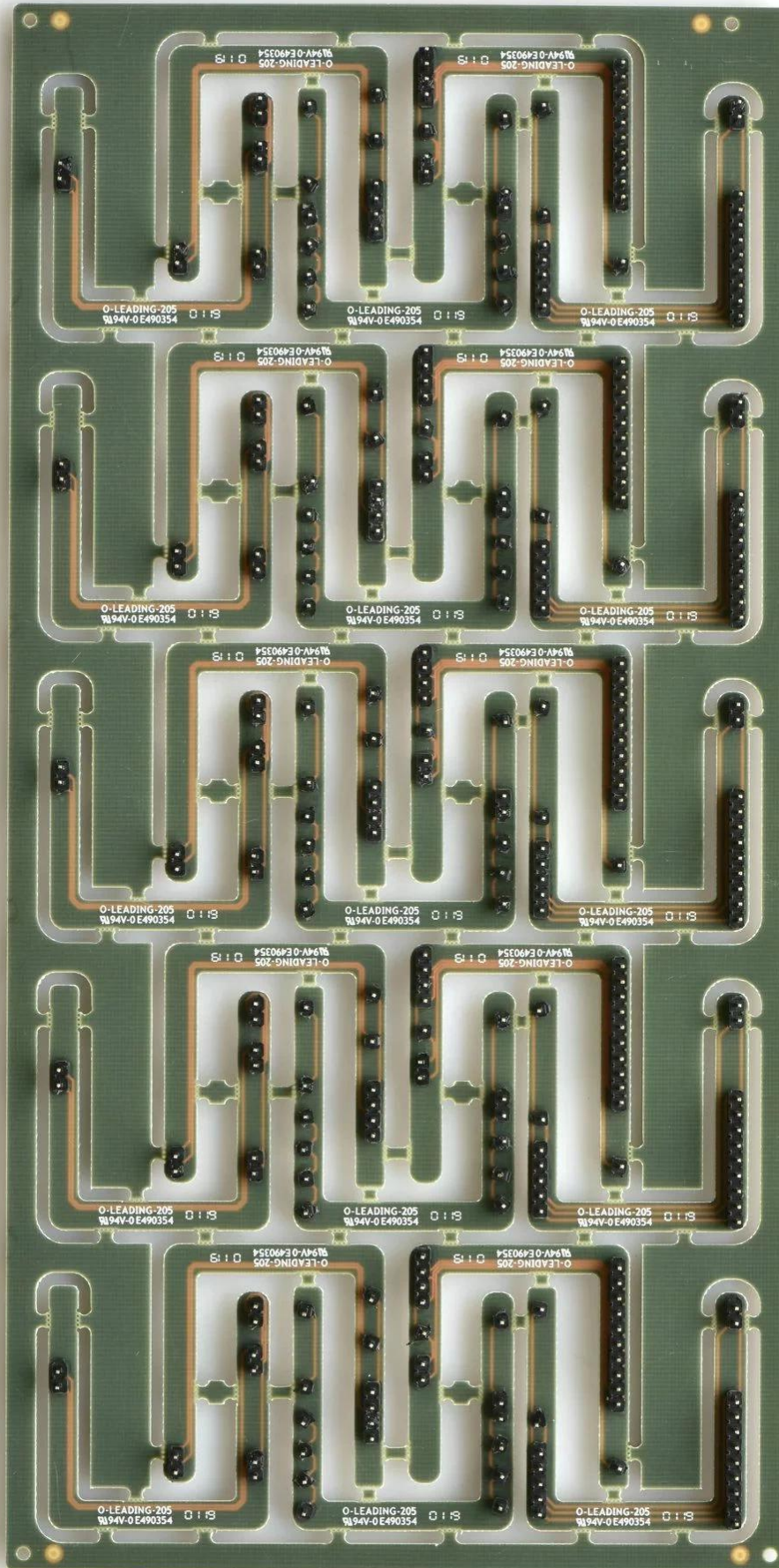
O-leading PCB PCB

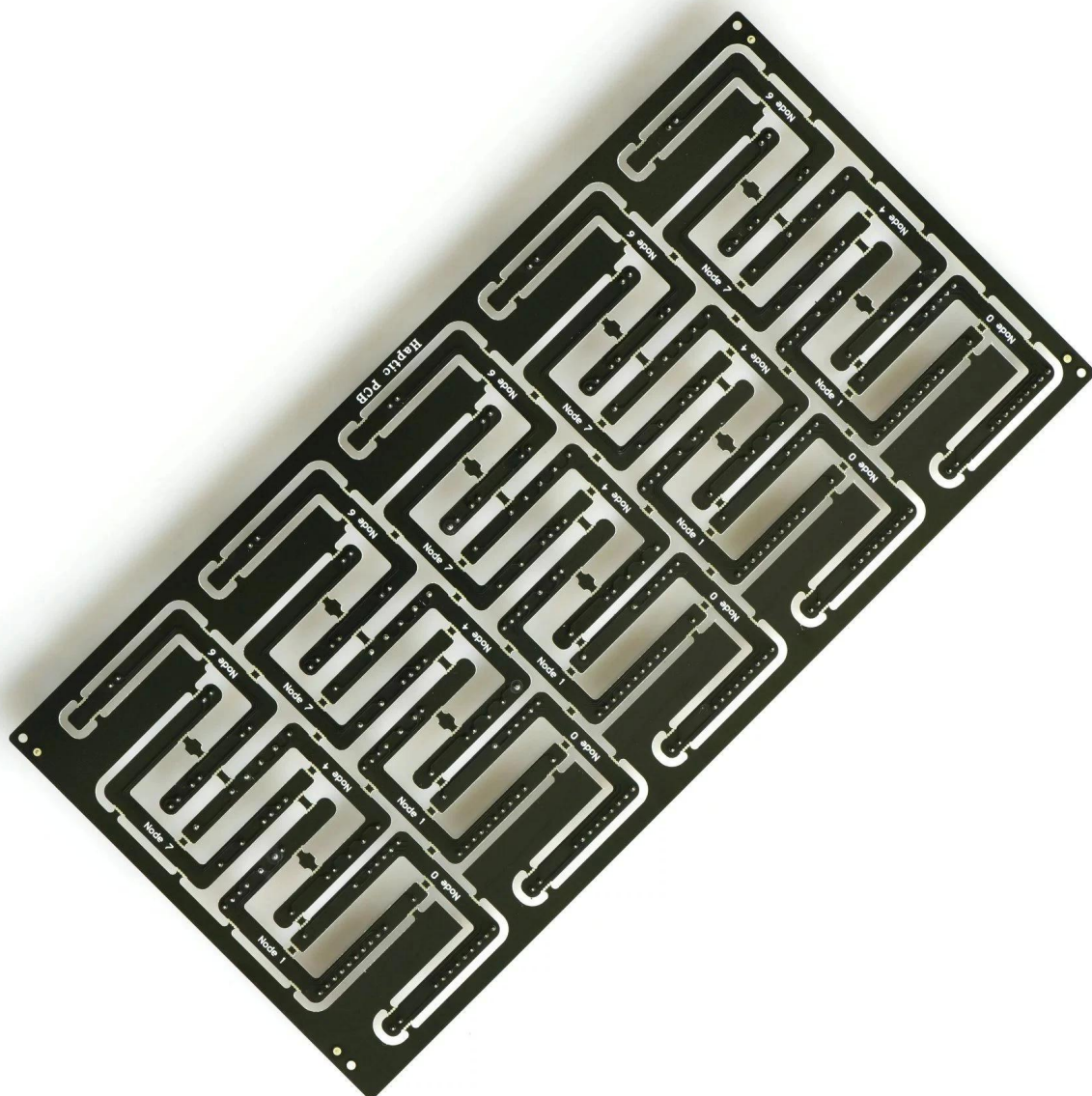
OEM PCB PCB

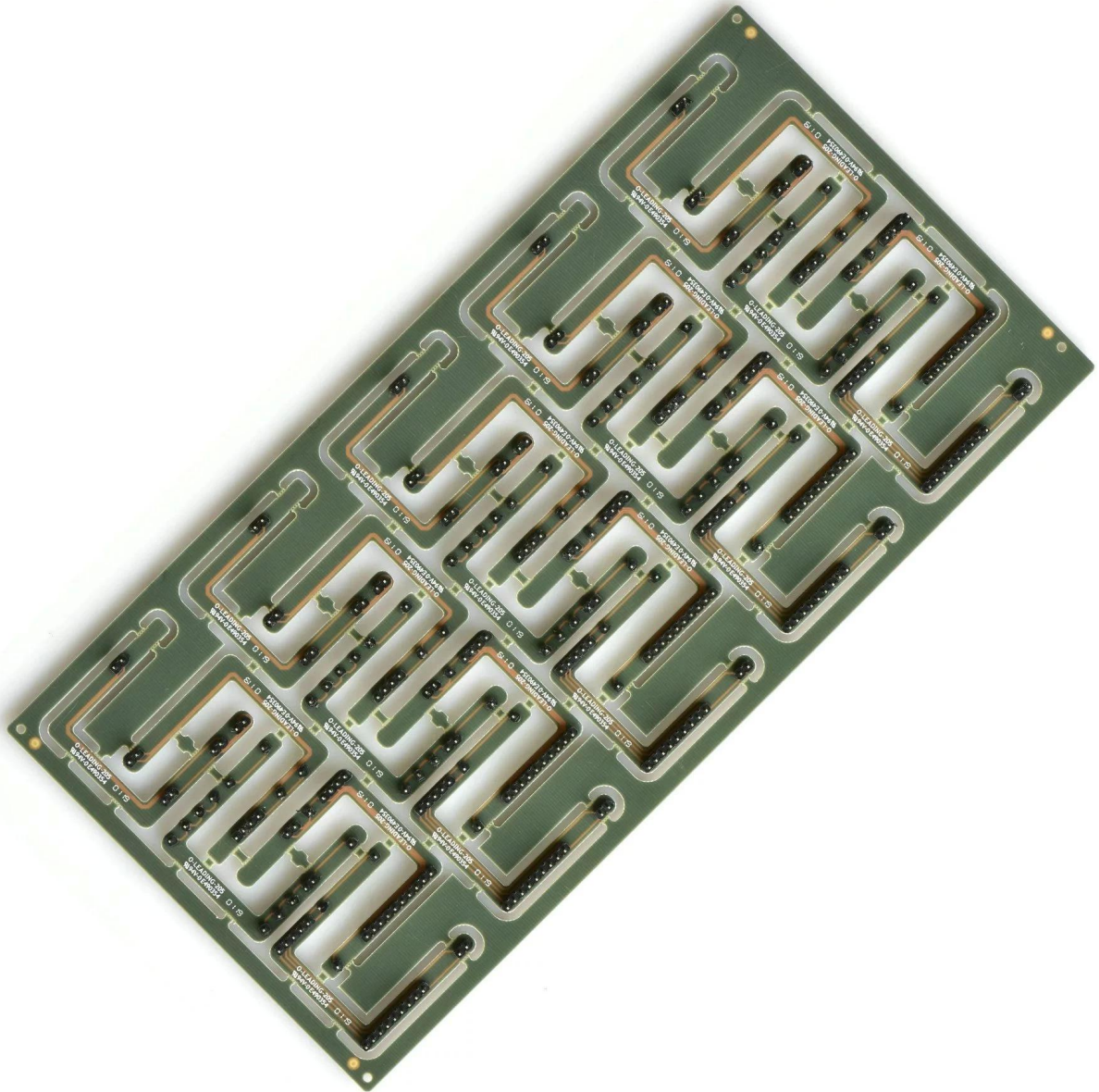
O-LEADING
To Be Reliable, To Be Valuable

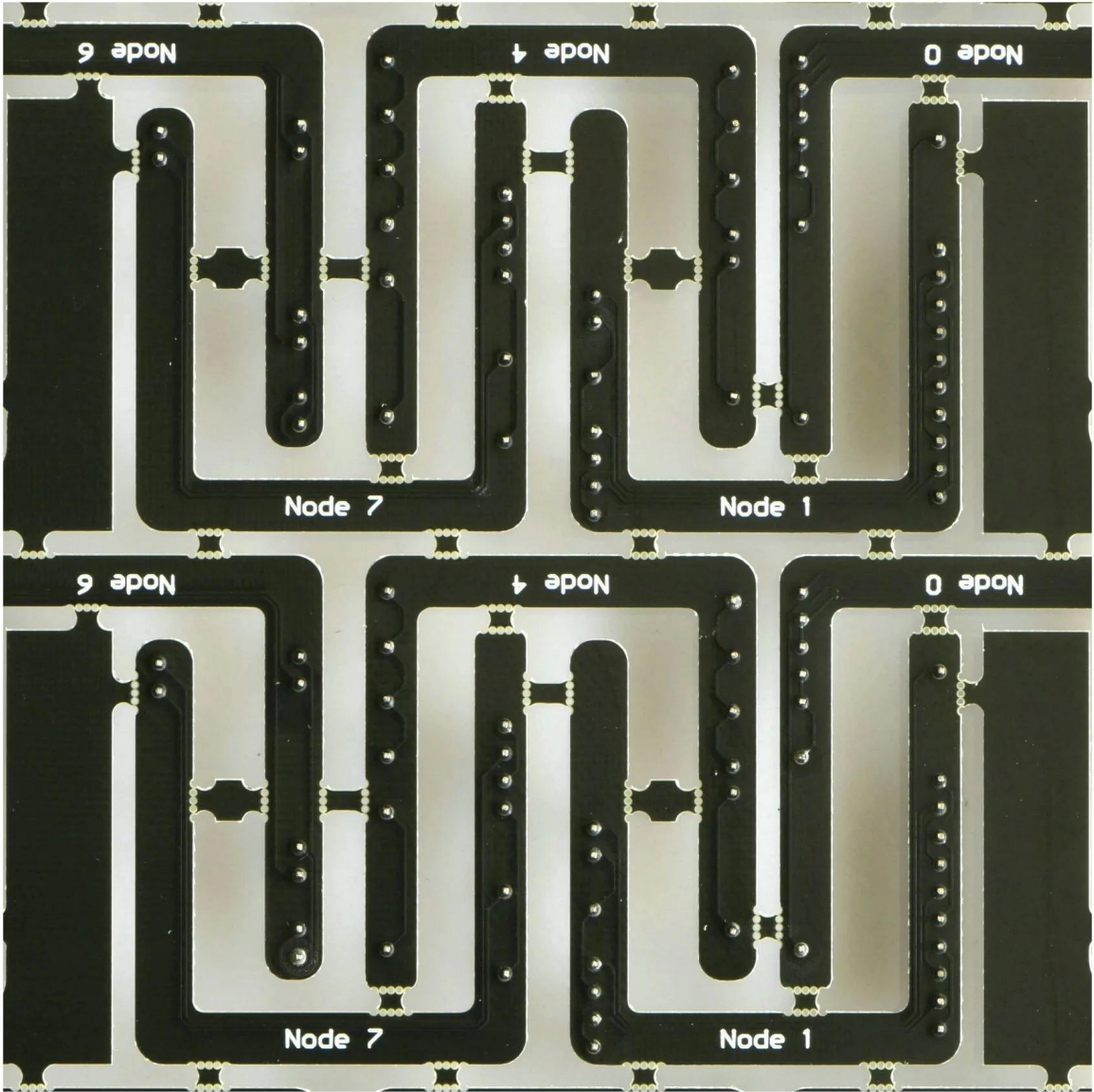


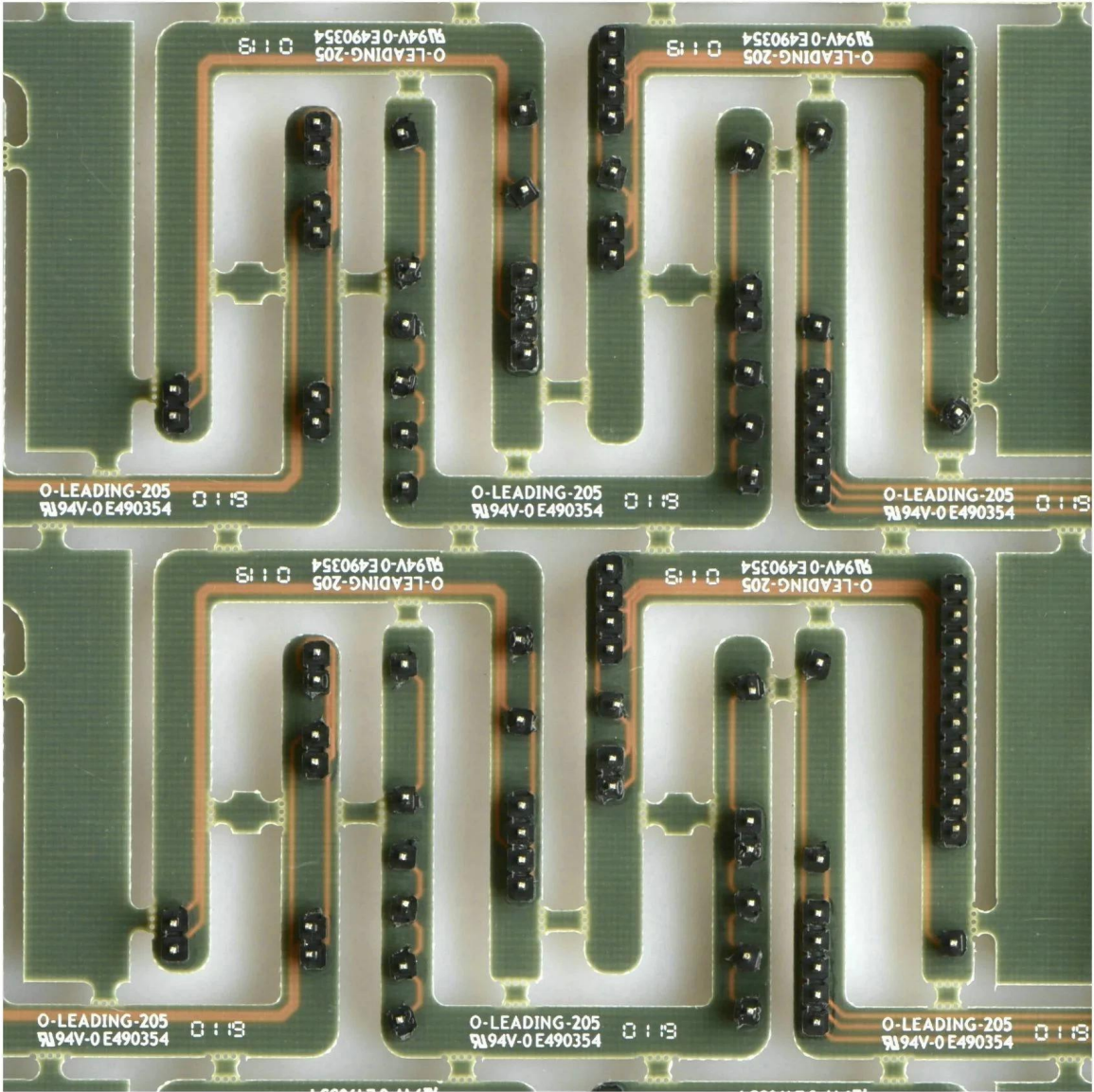


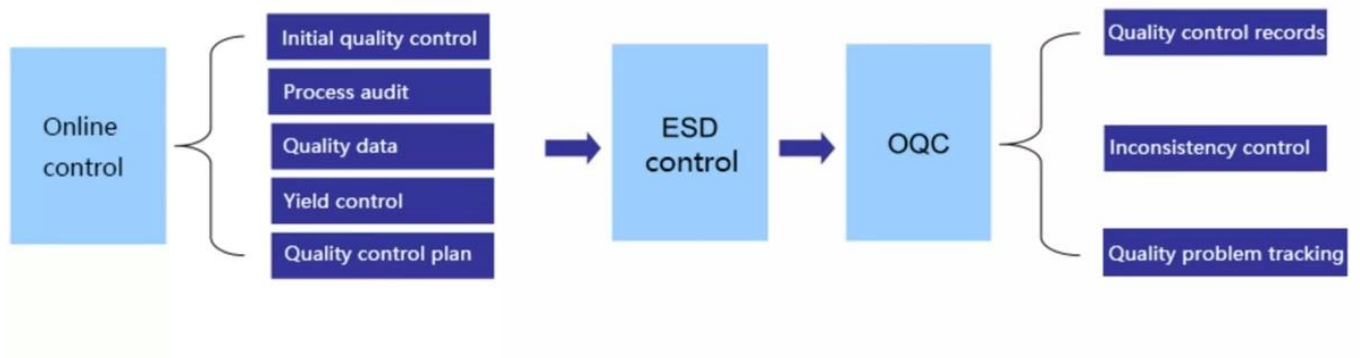
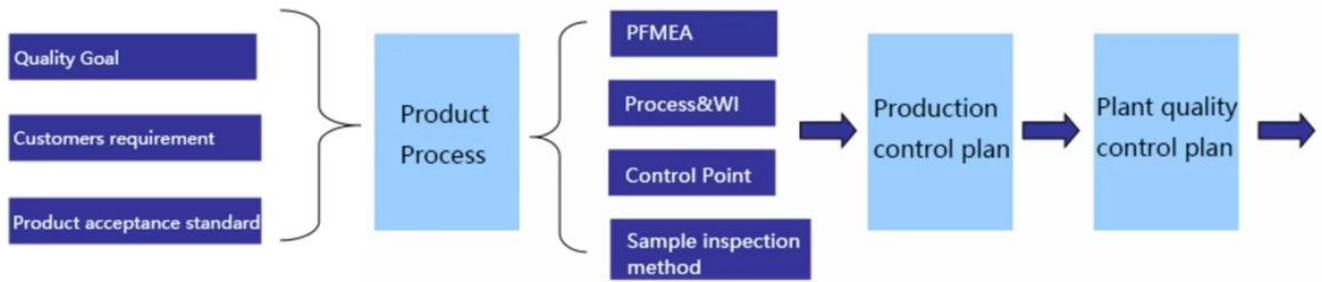












Market Share

CONSUMER ELECTRONICS

AUTOMOTIVE ELECTRONICS

INDUSTRIAL CONTROL

INTELLECTUALIZED HOUSEHOLD CONTROL

OTHER



30%
CONSUMER ELECTRONICS



12%
OTHER



20%
INDUSTRIAL CONTROL



18%
INTELLECTUALIZED HOUSEHOLD CONTROL

20%
AUTOMOTIVE ELECTRONICS



□□□□□□



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 (PDBEs) 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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed on the back, available on request or accessible at <http://www.spa.com/terms-and-conditions> and, for electronic formal documents, subject to Terms and Conditions for Electronic Documents at <http://www.spa.com/terms-and-conditions/terms-e-document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is deemed to have read, understood and accepted the terms and conditions of the document and to have agreed to follow the Client's instructions, if any. The Company's sole responsibility is to its Client and the document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without prior written permission of the Company. Any unauthorized use or reproduction of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the samples tested.

SGS-CHINA Technical Service Co., Ltd. SGS-Bldg No.4, Gongchen Industrial Park, No.40, Jihu Road, Baotian, Longgang District, Shenzhen, China 518129 (86-755) 25328888 (86-755) 83106190 www.sgsgroup.com.cn
 中 国 · 深 圳 · 龙 岗 区 松 田 中 华 路 40 号 江 工 业 园 4 号 SGS 大 楼 邮 编: 518129 (86-755) 25328888 (86-755) 83106190 e: sgsg.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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed elsewhere, available on request or accessible at <http://www.spa.com/terms-and-conditions.asp>, and for electronic formal documents, subject to Terms and Conditions for Electronic Documents at <http://www.spa.com/terms-and-conditions/Terms-Electronic-Document.asp>. It is drawn in the translation of Spanish. The Company and jurisdiction respectively of the holder of the document is not admitted. The Company does not accept any liability for the use of the document at any time or in any form, or within the limits of the Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the Company. The appearance of this text is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the samples) tested.

SGS SPS 16.4, Jiefang Industrial Park, No. 60, Jiefang Road, Longgang District, Shenzhen, China 518129 | (86-755) 25328888 | (86-755) 83106190 | www.sgsgroup.com.cn
中国·深圳·龙岗区田田吉路430号江鹏工业园4栋SGS大楼 邮编: 518129 | (86-755) 25328888 | (86-755) 83106190 | sbs.china@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.

并不是所有出现在本数据库中的公司名称和产品都满足了UL 跟踪检验服务的要求。只有带有 UL 标志的产品，才应该被视为经过UL认证，并满足UL 跟踪检验服务的要求。注意查看产品上的标志。

UL 允许在线认证目录中所含材料的复制遵循以下条件：1.指南信息、装配、构造、设计、系统和/或认证（文件）必须在不篡改任何数据（或图纸）的情况下完整且无误导性地呈现。2.“经 UL 允许从在线认证目录转载”声明必须出现在所摘取材料的邻近位置。此外，转载材料必须包含以下格式的版权声明：“© 2019 UL LLC”

PCB

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

SMT

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

PCB

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



1. O-LEADING

Our O-LEADING is a professional service

1.1 Our O-LEADING is ISO 9001:2008 certified

1.2 Our O-LEADING is a professional service

1.3 Our O-LEADING is a professional service X-ray AOI ICT

1.4 Our O-LEADING is a professional service

1.5 Our O-LEADING is a professional service

2. O-LEADING

Our O-LEADING is a professional service 31

Our O-LEADING is a professional service

Our O-LEADING is a professional service

Our O-LEADING is a professional service

3. O-LEADING

Our FR4 TG is a professional service/PI

4. PCB PCBA

4.1 BOM

4.2 PCB

4.3 PCB PCBA

4.4

4.5

5. PCB

→ → AOI → → PTH → → → → AOI → → → E / T →

6. HDI

VCP LDI

LDI

7. O-

O- ENIG OSP LF-HASL / OS ENIG OSP + ENIG HDI BGAPAD 0.3 mm OSP OSP + ENIG

8. FPC O-Leading SMT

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

9. PCB

; ; ; ; PCB ; ; ;

10. PCB PWB FPC

PCB PWB Printed Wire Board Printed Circuit Board FPC

11. PCB

PCB Tg CTE PCB 250°C 50 PCB

12. O-leading PCB

O-leading PCB FPC PCB

13.

POLAR INSTRUMENTS SI6000 soft CITS 500s

