Welcome to O-leading

O-Leading strives to be your one stop solution partner in EMS supply chain, including PCB design, PCB fabrication and PCB assembly (PCBA).We provide some of the most advanced PCB technology, including HDI PCBs,multilayer PCBs, Rigid-Flexible PCBs.We can support from quick turn prototype to medium & mass Production.

In general, our global customers are very impressed with our services:rapid response, competitive price and quality commitment.Providing more valuable technical service and overall solution is the way Oleading forward.

Looking to the future, O-leading will concentrate on the innovation and development of electronics manufacturing technology as always, and make persistent efforts on PCB & PCBA one-stop service to provide first-class services and create more value for our customers.

Product Description

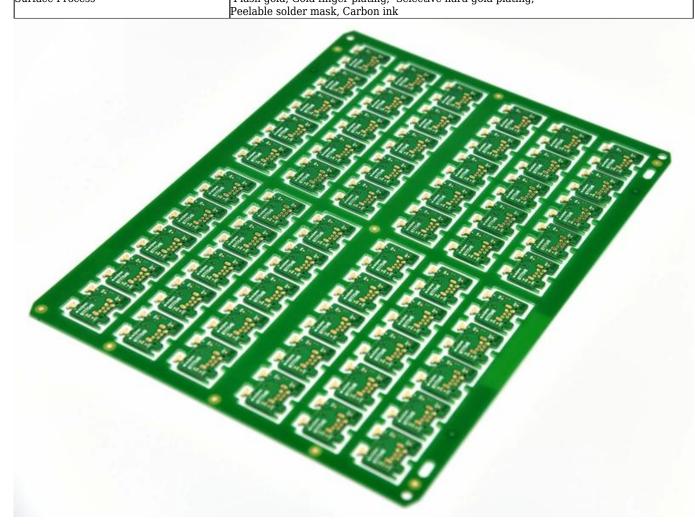
Place of Origin	Guang dong, China (Mainland)	Brand Name	O-Leading
Base Material	FR-4,,Aluminum	Copper Thickness	0.5oz-5oz
Min. Hole Size	0.2mm	Min. Line Width	0.2mm
Surface Finishing	immersion gold ,OSP,lead free HASL	Board Thickness	0.1-5mm
applicable to	led,mobile phone,air conditioners,washing machines	character	Industrial Control pcb
certificates	ISO9001,UL,RoHS,SGS	Q/CTN	10PCS-100PCS
weight	0.01kg -5kg	MOQ	10pcs
Model Number	power bank pcb assembly pcba manufacturer	Min. Line Spacing	0.2mm
color	blue ,red ,green,black.yellow	price	\$0.1-\$10
desigh type	client requirement	size	0.01m3-10m3

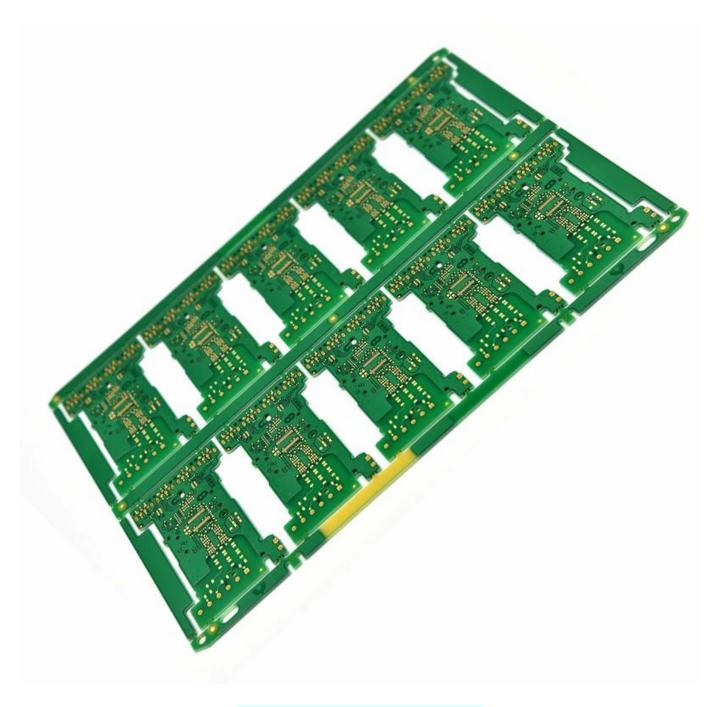
Quick Details

16 years professional OEM pcb board manufacture

item	2014		2015~2016		2017~2018	
Item	Volume	Sample	Volume	Sample	Volume	Sample
Layer count	32	42	38	44	42	48
Min Line/space (µm)	50/50	40/45	40/45	40/40	35/40	35/35

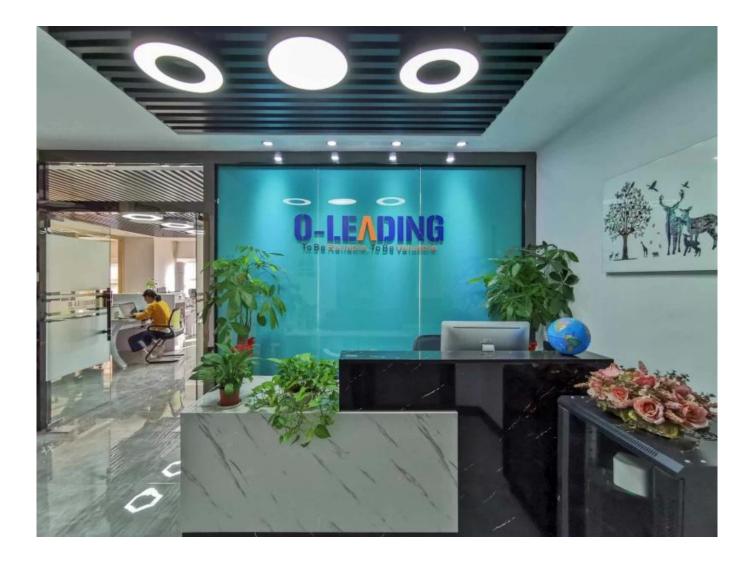
Min drill hole diameter (mm)	0.15	0.10	0.15	0.10	0.15	0.10
Aspect ratio of PTH	14:1	16:1	16:1	18:1	18:1	20:1
N+C+N	4+C+4	5+C+5	5+C+5	6+C+6	5+C+5	6+C+6
Any layer interconnection	5+2+5	6+2+6	5+2+5	6+2+6	5+2+5	6+2+6
Plate filling via	YES		YES		YES	
Min. core thickness (exclude copper) (µm)	50	40	40	30	40	30
Min. Laser Drill diameter (µm)	75	65	65	50	50	40
Via on buried hole/stacked via	YES		YES		YES	
Material	FR4, Megtro	on, Nelco, Ro	gers, Heavy	Copper, etc.		
Embedded capacitor PCB	YES		YES		YES	
Surface Process	Lead-free HASL, ENIG, OSP, Immersion silver, Immersion tin, Flash gold, Gold finger plating, Selective hard gold plating,					





<u>pcb manufacturer in china</u>





Factory PCB





Drilling Machine



Pattern Plating Machine



Scrubbing Machine



Developing Machine



Routing Machine



High-speed flying probe machine



E-test Machine

- Factory SMT











Certifications





O-LEADING SUPPLY CHAIN (HK) CO., LIMITED

Test Report

SGS

Test Report

No. SZXEC1900530401

Date: 30 Mar 2019 Page 2 of 6

Test Part Description :

Test Results :

Specimen No. SGS Sample ID Description SN1 SZX19-005304.001 Green"PCB"

Date: 30 Mar 2019 Page 1 of 6

The following sample(s) was/were submitted and identified on behalf of the clients as : OSP

No. SZXEC1900530401

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, Marcury, Cadmium, Horavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Big2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dbutyl phthalate (DBP), and Disbotyl phthalate (DBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/85/EU.

1313.FLOOR 13, FORTUNE BUILDING, DANSHUI TOWN, HUIYANG DISTRICT, HUIZHOU, GUANGDONG, CHINA

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)

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 2011/85/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.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
_ead (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	12	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
Dibromodiphen yl ether		mg/kg	5	ND
Tribromodiphenyl ether		mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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UL Product iQ™



E490354

ZPMV2.E490354 - WIRING, PRINTED - COMPONENT

Wiring, Printed - Component

See General Information for Wiring, Printed - Component

O-LEADING SUPPLY CHAIN (HK) CO LTD

ROOM 1205, 12/F TAI SANG BANK BLDG 130-132 DES VOEUS ROAD CENTRAL, HONG KONG

	Cond	Width			Max			Max			
		Min	Cond	SS/	Area	Solo	der	Oper		Meets	с
	Min	Edge	Thk	DS/	Diam	Lim	its	Temp	Flame	UL796	т
Туре	mm(in)	mm(in)	mic(mil)	DSO	mm(in)	с	sec	с	Class	DSR	L
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 pri	nted wiring bo	ards.	A								
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 p	rinted wiring b	oards.	n.					600	3 7	200	
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	НВ		*
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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Packaging & Delivery

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						

Process Capability

PCB Production Capabilities

Layer Count: 1Layer-32Layer Finished copper thickness[] 1/3oz-12oz Min Line width/spacing internal[] 3.0mil/3.0mil Min Line width/spacing external: 4.0mil/4.0mil Max Aspect Ratio: 10:1 Board thickness[] 0.2mm-5.0mm Max Panel size(inches): 635*1500mm Minimum Drilled Hole Size: 4mil Plated Hole Tolerance: +/-3mil Blind/Buried Vias (All Types): YES Via Fill(Conductive,Non-Conductive): YES Base Material: FR-4,FR-4high Tg.Halogen free material,Rogers,Aluminium base,Polyimide, Heavy Copper Surface finishes: HASL,OSP,ENIG,HAL-LF,Immersion silver,Immersion Tin,Gold fingers,Carbon ink

SMT Production Capabilities

PCB Material: FR-4,CEM-1,CEM-3,Aluminum-based board Max PCB size: 510x460mm Min PCB size[]50x50mm PCB Thickness[]0.5mm-4.5mm Board thickness[]0.5-4mm Min Components size: 0201 Standard chip size component: 0603 and larger Component max height[]15mm Min lead pitch: 0.3mm Min BGA ball pitch:0.4mm Placement precision: +/-0.03mm