

O-leading

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

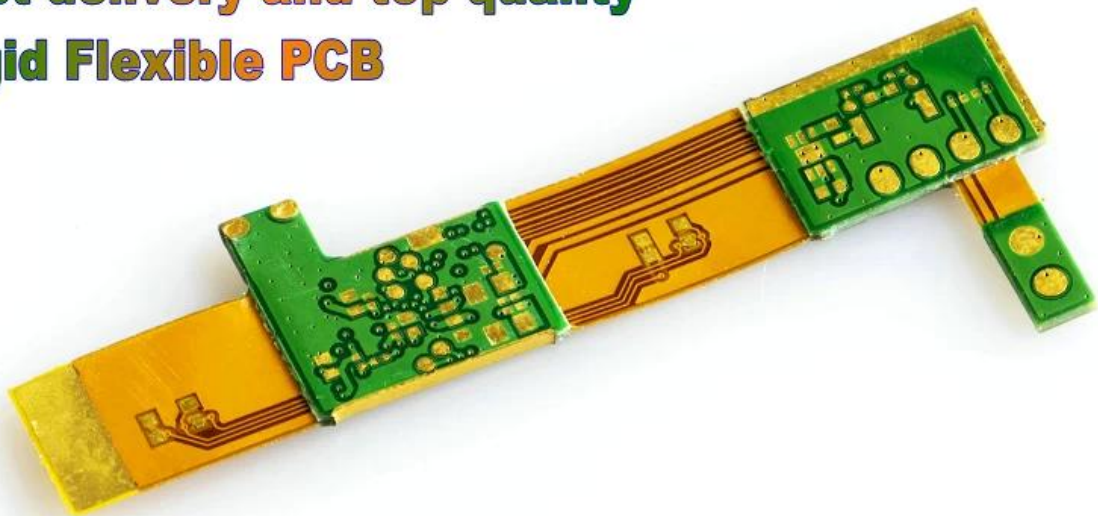
O-leading

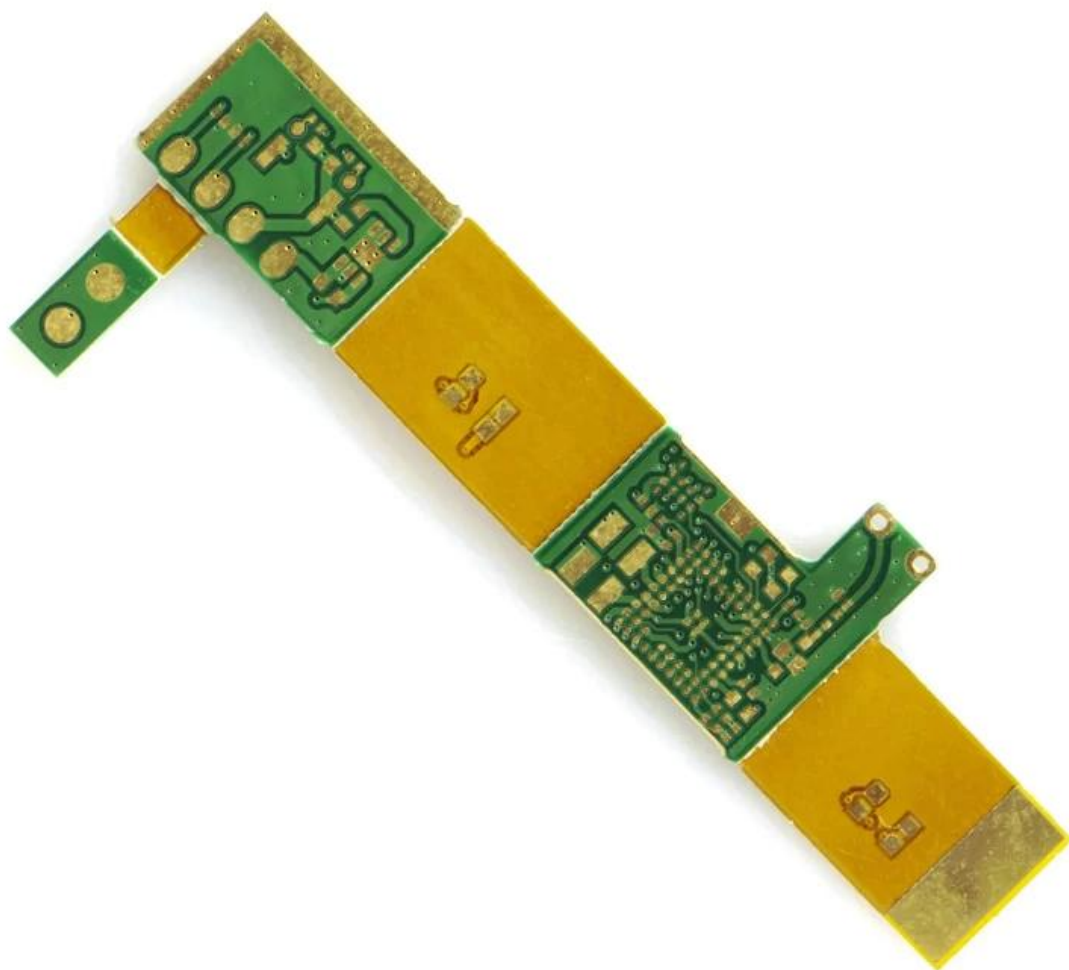
O-leading PCB&PCBA

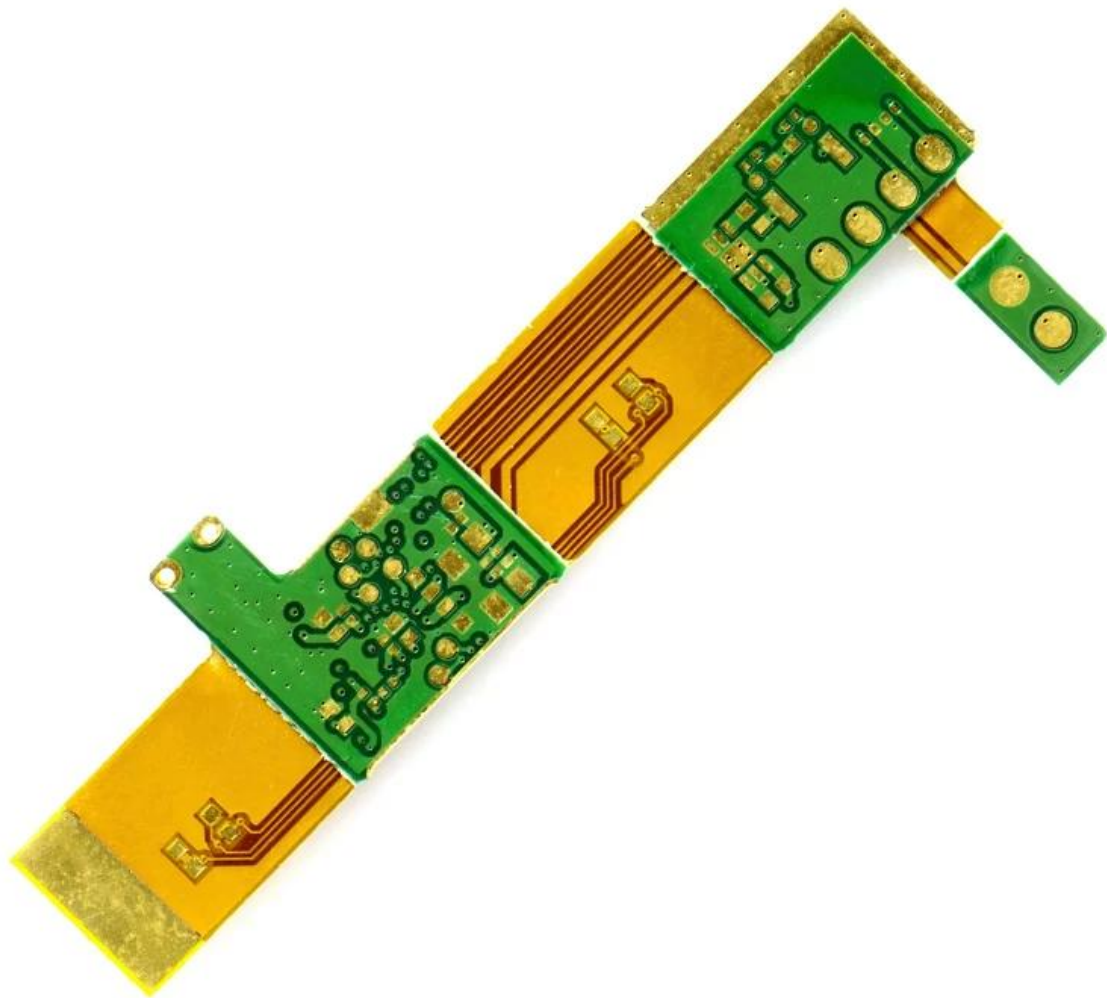
X BGA IC PCB

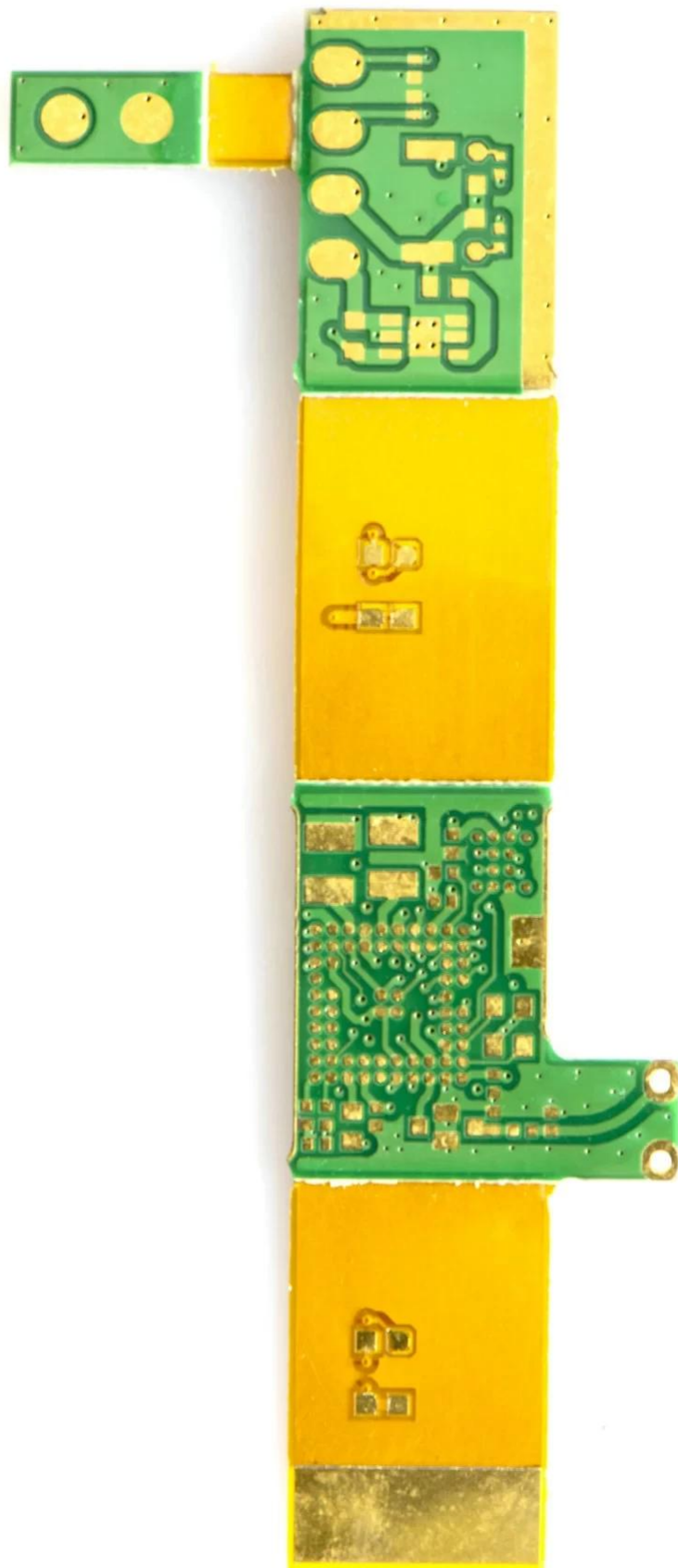
O-LEADING
To Be Reliable, To Be Valuable

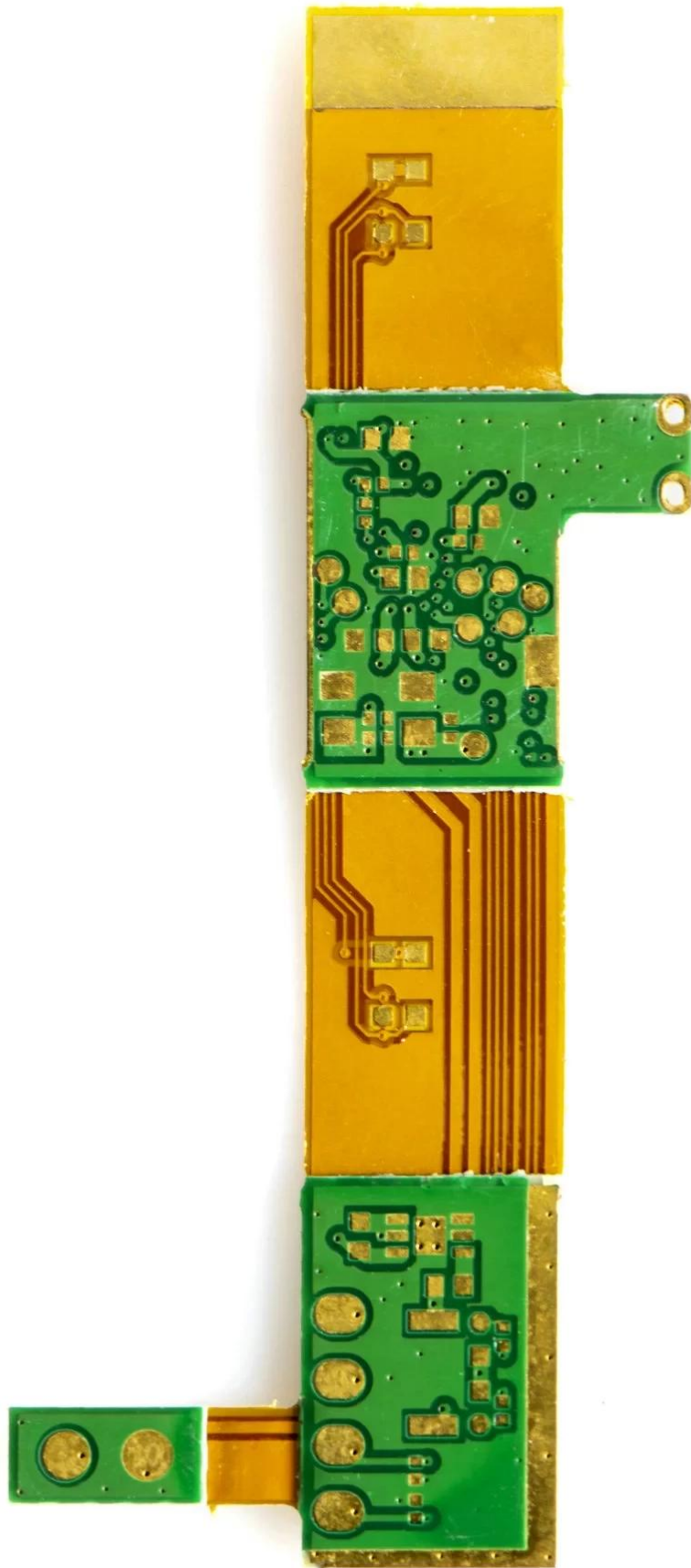
Fast delivery and top quality
Rigid Flexible PCB











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



12%
OTHER



20%
INDUSTRIAL CONTROL

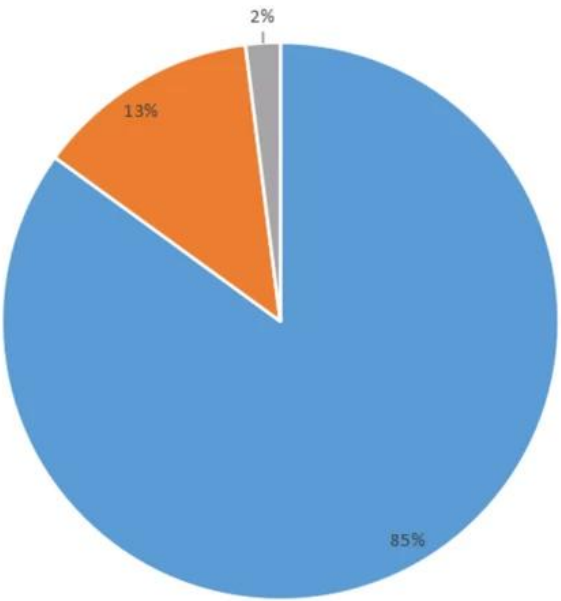


18%
INTELLECTUALIZED HOUSEHOLD CONTROL

20%
AUTOMOTIVE ELECTRONICS

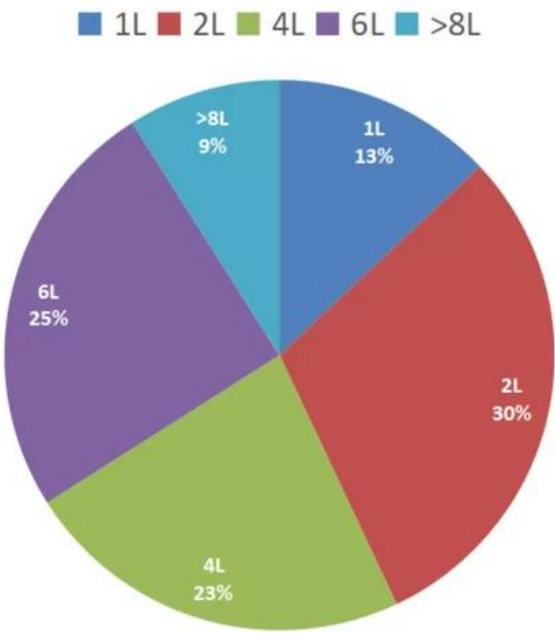


Product types



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

Product layers



■ 1L ■ 2L ■ 4L ■ 6L ■ >8L

□□□□□□



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



Skyworth 创维

H&T 和而泰
H&T INTELLIGENT CONTROL

dongweikeji
东威科技

美的 **Midea**

STAR-NET
星网锐捷

FORYOU
ADAYO 华阳集团

EDIFIER®

Cultraview 金锐显

3nod 三诺

T&W

TCL

AcBel 康舒科技
ACBEL POLYTECH INC.

Honeywell

Schneider
Electric

ZTE 中兴

EMERSON

BYD

PHILIPS

TE
connectivity

VIDEOTON



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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed on the reverse side of this document or available at <http://www.sgs.com/terms-and-conditions> and for electronic format documents subject to its Terms and Conditions for Electronic Documents available at <http://www.sgs.com/terms-and-conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its examination only and within the limits of Client's instructions. If any of the Company's sole responsibility is to its Client and this document does not constitute parties to a transaction from which all their rights and obligations under the transaction documents. This document cannot be reproduced or used in any way without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the validity of this report shall remain valid only in the sample(s) tested.

Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its examination only and within the limits of Client's instructions. If any of the Company's sole responsibility is to its Client and this document does not constitute parties to a transaction from which all their rights and obligations under the transaction documents. This document cannot be reproduced or used in any way without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the validity of this report shall remain valid only in the sample(s) tested.

500, Rue de la République, 94400, St-Denis, France. Tel: +33 (0)1 70 70 20 000. Fax: +33 (0)1 70 70 20 001. www.sgs.com
中国：深圳：龙岗区坂田街道五和大道430号二至五楼505室 邮编：518129 186-755-83106190 186-755-83106191 186-755-83106192 186-755-83106193 186-755-83106194 186-755-83106195 186-755-83106196 186-755-83106197 186-755-83106198 186-755-83106199 186-755-83106200 186-755-83106201 186-755-83106202 186-755-83106203 186-755-83106204 186-755-83106205 186-755-83106206 186-755-83106207 186-755-83106208 186-755-83106209 186-755-83106210 186-755-83106211 186-755-83106212 186-755-83106213 186-755-83106214 186-755-83106215 186-755-83106216 186-755-83106217 186-755-83106218 186-755-83106219 186-755-83106220 186-755-83106221 186-755-83106222 186-755-83106223 186-755-83106224 186-755-83106225 186-755-83106226 186-755-83106227 186-755-83106228 186-755-83106229 186-755-83106230 186-755-83106231 186-755-83106232 186-755-83106233 186-755-83106234 186-755-83106235 186-755-83106236 186-755-83106237 186-755-83106238 186-755-83106239 186-755-83106240 186-755-83106241 186-755-83106242 186-755-83106243 186-755-83106244 186-755-83106245 186-755-83106246 186-755-83106247 186-755-83106248 186-755-83106249 186-755-83106250 186-755-83106251 186-755-83106252 186-755-83106253 186-755-83106254 186-755-83106255 186-755-83106256 186-755-83106257 186-755-83106258 186-755-83106259 186-755-83106260 186-755-83106261 186-755-83106262 186-755-83106263 186-755-83106264 186-755-83106265 186-755-83106266 186-755-83106267 186-755-83106268 186-755-83106269 186-755-83106270 186-755-83106271 186-755-83106272 186-755-83106273 186-755-83106274 186-755-83106275 186-755-83106276 186-755-83106277 186-755-83106278 186-755-83106279 186-755-83106280 186-755-83106281 186-755-83106282 186-755-83106283 186-755-83106284 186-755-83106285 186-755-83106286 186-755-83106287 186-755-83106288 186-755-83106289 186-755-83106290 186-755-83106291 186-755-83106292 186-755-83106293 186-755-83106294 186-755-83106295 186-755-83106296 186-755-83106297 186-755-83106298 186-755-83106299 186-755-83106300 186-755-83106301 186-755-83106302 186-755-83106303 186-755-83106304 186-755-83106305 186-755-83106306 186-755-83106307 186-755-83106308 186-755-83106309 186-755-83106310 186-755-83106311 186-755-83106312 186-755-83106313 186-755-83106314 186-755-83106315 186-755-83106316 186-755-83106317 186-755-83106318 186-755-83106319 186-755-83106320 186-755-83106321 186-755-83106322 186-755-83106323 186-755-83106324 186-755-83106325 186-755-83106326 186-755-83106327 186-755-83106328 186-755-83106329 186-755-83106330 186-755-83106331 186-755-83106332 186-755-83106333 186-755-83106334 186-755-83106335 186-755-83106336 186-755-83106337 186-755-83106338 186-755-83106339 186-755-83106340 186-755-83106341 186-755-83106342 186-755-83106343 186-755-83106344 186-755-83106345 186-755-83106346 186-755-83106347 186-755-83106348 186-755-83106349 186-755-83106350 186-755-83106351 186-755-83106352 186-755-83106353 186-755-83106354 186-755-83106355 186-755-83106356 186-755-83106357 186-755-83106358 186-755-83106359 186-755-83106360 186-755-83106361 186-755-83106362 186-755-83106363 186-755-83106364 186-755-83106365 186-755-83106366 186-755-83106367 186-755-83106368 186-755-83106369 186-755-83106370 186-755-83106371 186-755-83106372 186-755-83106373 186-755-83106374 186-755-83106375 186-755-83106376 186-755-83106377 186-755-83106378 186-755-83106379 186-755-83106380 186-755-83106381 186-755-83106382 186-755-83106383 186-755-83106384 186-755-83106385 186-755-83106386 186-755-83106387 186-755-83106388 186-755-83106389 186-755-83106390 186-755-83106391 186-755-83106392 186-755-83106393 186-755-83106394 186-755-83106395 186-755-83106396 186-755-83106397 186-755-83106398 186-755-83106399 186-755-83106400 186-755-83106401 186-755-83106402 186-755-83106403 186-755-83106404 186-755-83106405 186-755-83106406 186-755-83106407 186-755-83106408 186-755-83106409 186-755-83106410 186-755-83106411 186-755-83106412 186-755-83106413 186-755-83106414 186-755-83106415 186-755-83106416 186-755-83106417 186-755-83106418 186-755-83106419 186-755-83106420 186-755-83106421 186-755-83106422 186-755-83106423 186-755-83106424 186-755-83106425 186-755-83106426 186-755-83106427 186-755-83106428 186-755-83106429 186-755-83106430 186-755-83106431 186-755-83106432 186-755-83106433 186-755-83106434 186-755-83106435 186-755-83106436 186-755-83106437 186-755-83106438 186-755-83106439 186-755-83106440 186-755-83106441 186-755-83106442 186-755-83106443 186-755-83106444 186-755-83106445 186-755-83106446 186-755-83106447 186-755-83106448 186-755-83106449 186-755-83106450 186-755-83106451 186-755-83106452 186-755-83106453 186-755-83106454 186-755-83106455 186-755-83106456 186-755-83106457 186-755-83106458 186-755-83106459 186-755-83106460 186-755-83106461 186-755-83106462 186-755-83106463 186-755-83106464 186-755-83106465 186-755-83106466 186-755-83106467 186-755-83106468 186-755-83106469 186-755-83106470 186-755-83106471 186-755-83106472 186-755-83106473 186-755-83106474 186-755-83106475 186-755-83106476 186-755-83106477 186-755-83106478 186-755-83106479 186-755-83106480 186-755-83106481 186-755-83106482 186-755-83106483 186-755-83106484 186-755-83106485 186-755-83106486 186-755-83106487 186-755-83106488 186-755-83106489 186-755-83106490 186-755-83106491 186-755-83106492 186-755-83106493 186-755-83106494 186-755-83106495 186-755-83106496 186-755-83106497 186-755-83106498 186-755-83106499 186-755-83106500 186-755-83106501 186-755-83106502 186-755-83106503 186-755-83106504 186-755-83106505 186-755-83106506 186-755-83106507 186-755-83106508 186-755-83106509 186-755-83106510 186-755-83106511 186-755-83106512 186-755-83106513 186-755-83106514 186-755-83106515 186-755-83106516 186-755-83106517 186-755-83106518 186-755-83106519 186-755-83106520 186-755-83106521 186-755-83106522 186-755-83106523 186-755-83106524 186-755-83106525 186-755-83106526 186-755-83106527 186-755-83106528 186-755-83106529 186-755-83106530 186-755-83106531 186-755-83106532 186-755-83106533 186-755-83106534 186-755-83106535 186-755-83106536 186-755-83106537 186-755-83106538 186-755-83106539 186-755-83106540 186-755-83106541 186-755-83106542 186-755-83106543 186-755-83106544 186-755-83106545 186-755-83106546 186-755-83106547 186-755-83106548 186-755-83106549 186-755-83106550 186-755-83106551 186-755-83106552 186-755-83106553 186-755-83106554 186-755-83106555 186-755-83106556 186-755-83106557 186-755-83106558 186-755-83106559 186-755-83106560 186-755-83106561 186-755-83106562 186-755-83106563 186-755-83106564 186-755-83106565 186-755-83106566 186-755-83106567 186-755-83106568 186-755-83106569 186-755-83106570 186-755-83106571 186-755-83106572 186-755-83106573 186-755-83106574 186-755-83106575 186-755-83106576 186-755-83106577 186-755-83106578 186-755-83106579 186-755-83106580 186-755-83106581 186-755-83106582 186-755-83106583 186-755-83106584 186-755-83106585 186-755-83106586 186-755-83106587 186-755-83106588 186-755-83106589 186-755-83106590 186-755-83106591 186-755-83106592 186-755-83106593 186-755-83106594 186-755-83106595 186-755-83106596 186-755-83106597 186-755-83106598 186-755-83106599 186-755-83106600 186-755-83106601 186-755-83106602 186-755-83106603 186-755-83106604 186-755-83106605 186-755-83106606 186-755-83106607 186-755-83106608 186-755-83106609 186-755-83106610 186-755-83106611 186-755-83106612 186-755-83106613 186-755-83106614 186-755-83106615 186-755-83106616 186-755-83106617 186-755-83106618 186-755-83106619 186-755-83106620 186-755-83106621 186-755-83106622 186-755-83106623 186-755-83106624 186-755-83106625 186-755-83106626 186-755-83106627 186-755-83106628 186-755-83106629 186-755-83106630 186-755-83106631 186-755-83106632 186-755-83106633 186-755-83106634 186-755-83106635 186-755-83106636 186-755-83106637 186-755-83106638 186-755-83106639 186-755-83106640 186-755-83106641 186-755-83106642 186-755-83106643 186-755-83106644 186-755-83106645 186-755-83106646 186-755-83106647 186-755-83106648 186-755-83106649 186-755-83106650 186-755-83106651 186-755-83106652 186-755-83106653 186-755-83106654 186-755-83106655 186-755-83106656 186-755-83106657 186-755-83106658 186-755-83106659 186-755-83106660 186-755-83106661 186-755-83106662 186-755-83106663 186-755-83106664 186-755-83106665 186-755-83106666 186-755-83106667 186-755-83106668 186-755-83106669 186-755-83106670 186-755-83106671 186-755-83106672 186-755-83106673 186-755-83106674 186-755-83106675 186-755-83106676 186-755-83106677 186-755-83106678 186-755-83106679 186-755-83106680 186-755-83106681 186-755-83106682 186-755-83106683 186-755-83106684 186-755-83106685 186-755-83106686 186-755-83106687 186-755-83106688 186-755-83106689 186-755-83106690 186-755-83106691 186-755-83106692 186-755-83106693 186-755-83106694 186-755-83106695 186-755-83106696 186-755-83106697 186-755-83106698 186-755-83106699 186-755-83106700 186-755-83106701 186-755-83106702 186-755-83106703 186-755-83106704 186-755-83106705 186-755-83106706 186-755-83106707 186-755-83106708 186-755-83106709 186-755-83106710 186-755-83106711 186-755-83106712 186-755-83106713 186-755-83106714 186-755-83106715 186-755-83106716 186-755-83106717 186-755-83106718 186-755-83106719 186-755-83106720 186-755-83106721 186-755-83106722 186-755-83106723 186-755-83106724 186-755-83106725 186-755-83106726 186-755-83106727 186-755-83106728 186-755-83106729 186-755-83106730 186-755-83106731 186-755-83106732 186-755-83106733 186-755-83106734 186-755-83106735 186-755-83106736 186-755-83106737 186-755-83106738 186-755-83106739 186-755-83106740 186-755-83106741 186-755-83106742 186-755-83106743 186-755-83106744 186-755-83106745 186-755-83106746 186-755-83106747 186-755-83106748 186-755-83106749 186-755-83106750 186-755-83106751 186-755-83106752 186-755-83106753 186-755-83106754 186-755-83106755 186-755-83106756 186-755-83106757 186-755-83106758 186-755-83106759 186-755-83106760 186-755-83106761 186-755-83106762 186-755-83106763 186-755-83106764 186-755-83106765 186-755-83106766 186-755-83106767 186-755-83106768 186-755-83106769 186-755-83106770 186-755-83106771 186-755-83106772 186-755-83106773 186-755-83106774 186-755-83106775 186-755-83106776 186-755-83106777 186-755-83106778 186-755-83106779 186-755-83106780 186-755-83106781 186-755-83106782 186-755-83106783 186-755-83106784 186-755-83106785 186-755-83106786 186-755-83106787 186-755-83106788 186-755-83106789 186-755-83106790 186-755-83106791 186-755-83106792 186-755-83106793 186-755-83106794 186-755-83106795 186-755-83106796 186-755-83106797 186-755-83106798 186-755-83106799 186-755-83106800 186-755-83106801 186-755-83106802 186-755-83106803 186-755-83106804 186-755-83106805 186-755-83106806 186-755-83106807 1



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 T	
	Min	Min			Area	Solder	Oper	Flame			
	mm(in)	mm(in)			Diam	Limits	Temp	Class			
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
Thickness	101
Thickness	0.2mm5.0mm
Thickness	635 * 1500mm
Thickness	4mil
Plated	+/- 3mil
Blind / Buried Vias	All
Via Fill	
	FR-4FR-4high Tg
	HASLOSPENIGHAL-LF

SMT

PCB	FR-4CEM-1CEM-3
PCB	510x460mm
PCB	50x50mm
PCB	0.5mm4.5mm
	0.54mm
	0201
	0603
	15mm
	0.3mm
BGA	0.4mm
	+/- 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 100% COMPLIANCE WITH ISO 9001:2008 CERTIFICATION
1.1 ISO 9001:2008 CERTIFICATION
1.2 ISO 9001:2008 CERTIFICATION
1.3 ISO 9001:2008 CERTIFICATION X-Axis AOI
1.4 ISO 9001:2008 CERTIFICATION
1.5 ISO 9001:2008 CERTIFICATION
2. O-LEADING 100% COMPLIANCE WITH ISO 9001:2008 CERTIFICATION
100% COMPLIANCE WITH ISO 9001:2008 CERTIFICATION 2003-2004 RMB 31
O-LEADING 100% COMPLIANCE WITH ISO 9001:2008 CERTIFICATION
3. O-LEADING 100% COMPLIANCE WITH ISO 9001:2008 CERTIFICATION
FR4 TG 100% COMPLIANCE WITH ISO 9001:2008 CERTIFICATION/PI

