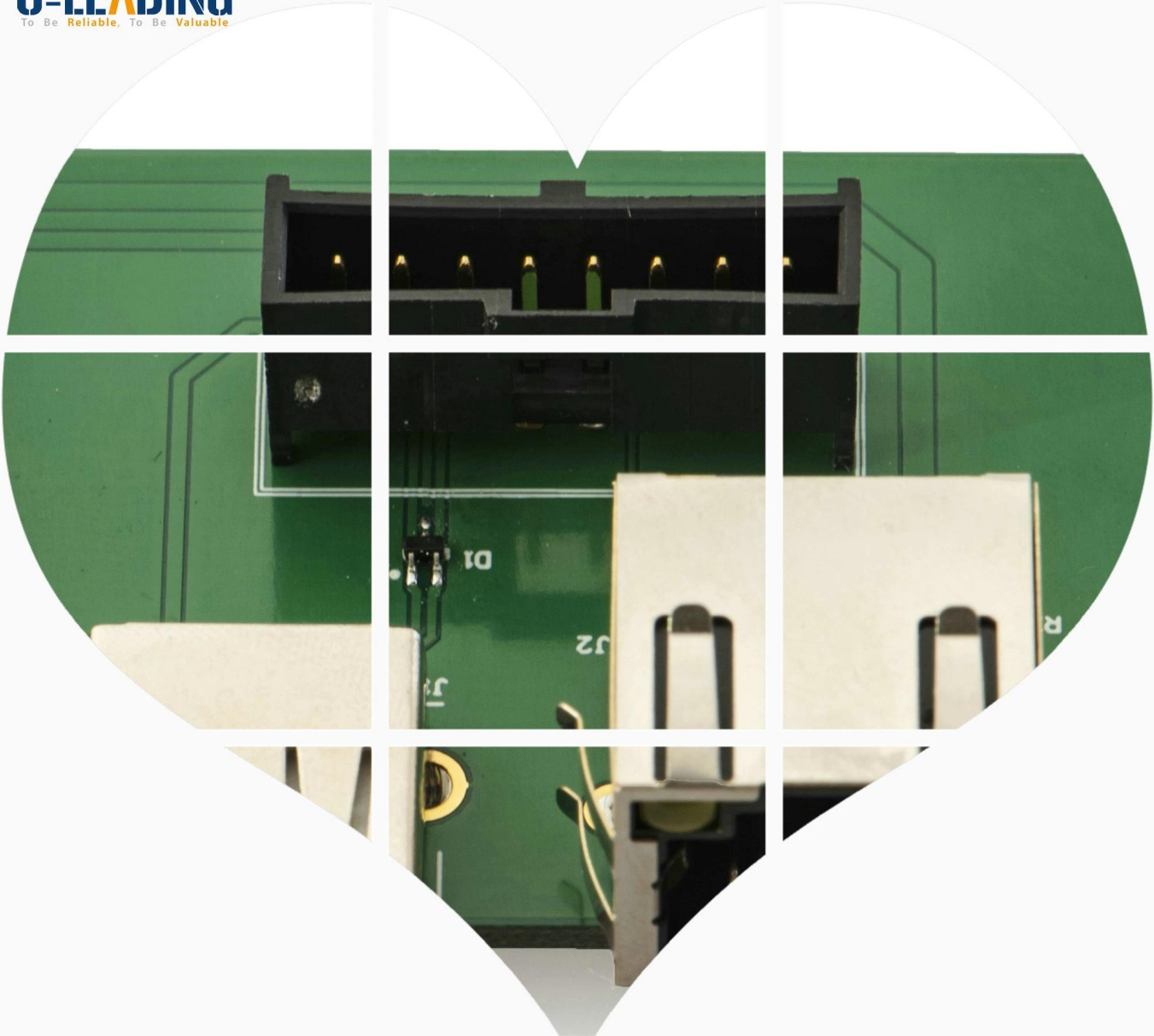


O-LEADING
To Be Reliable, To Be Valuable



WE MAKE YOUR IDEA COME TRUE



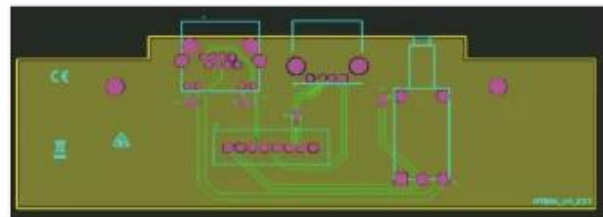
BOM

Manufacturer	Manufacturer Part Number	Designator (required)	Qty (required)	Description (required)
Molex	90136-1208	J1	1	Conn Shrouded Header (4 Sides) HDR 8 POS 2.54mm
Würth Elektronik	615008137421	J2	1	ular Jack WR-MJ, Tab Up, Shielded, with LED and EMI Panel Finger, Horizo
Panasonic	ERJ-3EKF5100V	R1,R2	2	Res Thick Film 0603 510 Ohm 1% 1/10W
Würth Elektroni	61400416021	J3	1	Conn USB 2.0 Type A F 4 POS Solder RA Thru-Hole 4 Terminal 1 Port Tray
Semtech	RCLAMP0502BATCT	D1	1	LAMP Series 25 V 1 pF SMT Uni/Bi-Directional TVS ESD/CDE Protection - SC
&K Componen	ELUMEETHQ6C22	S1	1	Switch Push Button ON ON SPDT Square Plunger 0.25A 50VDC 3.5VA

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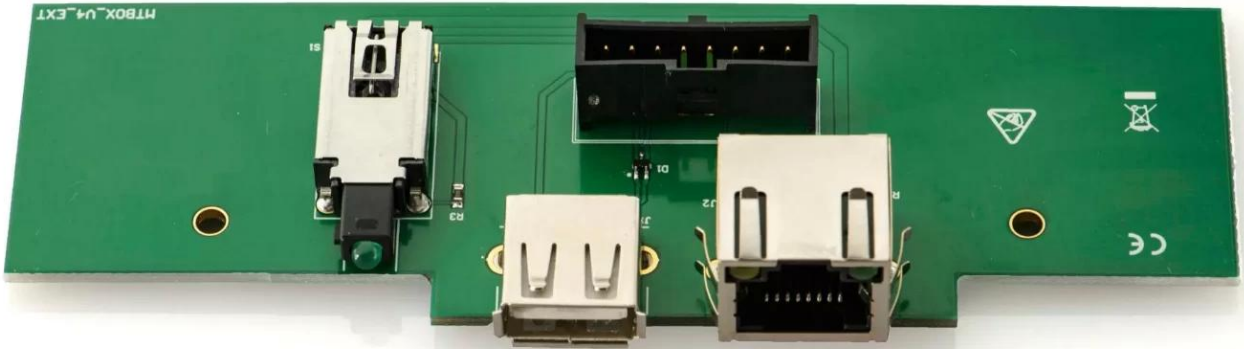
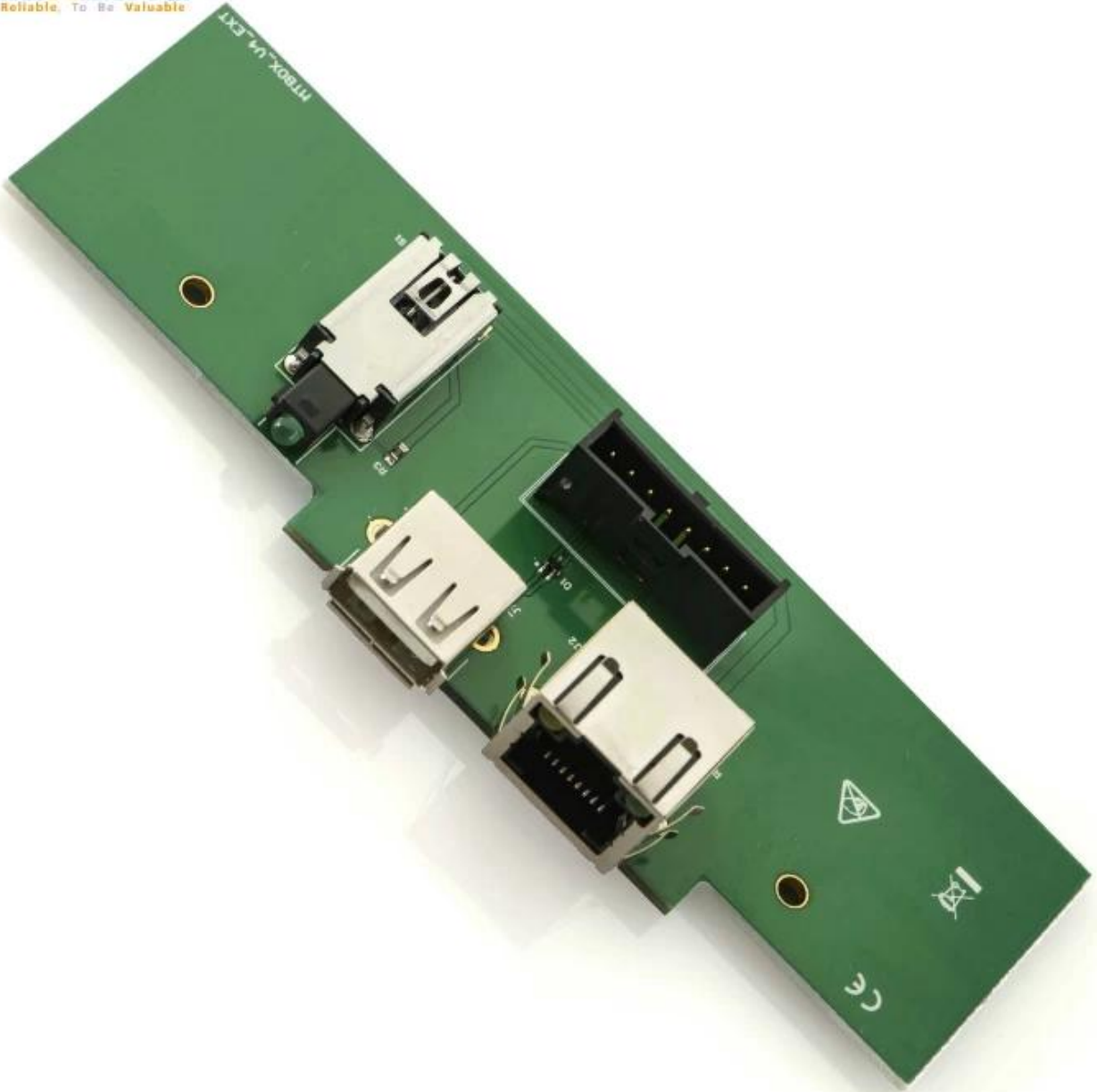


PCBA



PCB







فريقنا



Factory PCB



Automatic vacuum press machine



Drilling Machine



Pattern Plating Machine



Scrubbing Machine



Developing Machine



Routing Machine



High-speed flying probe machine

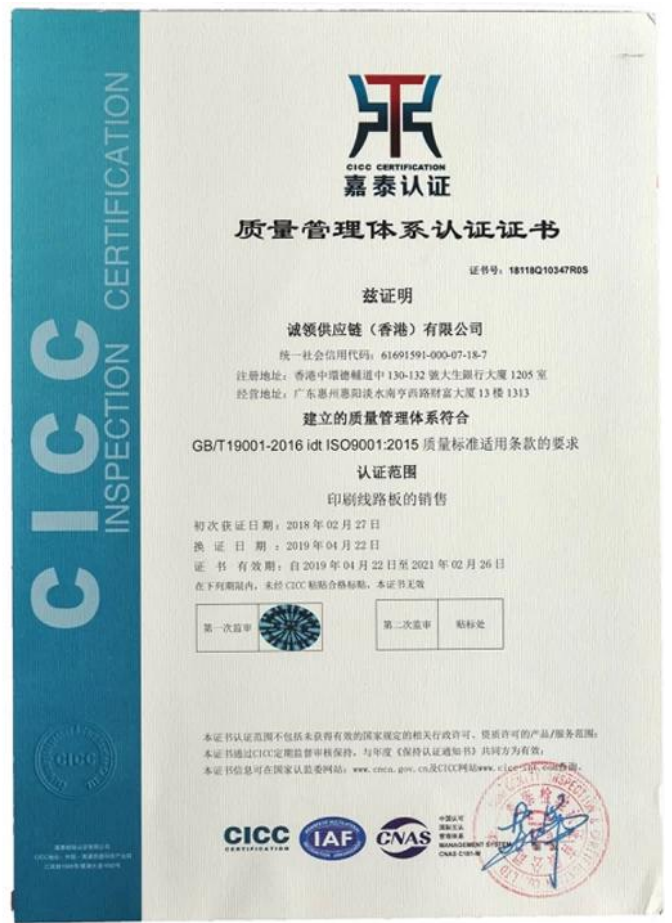


E-test Machine

Factory SMT



الشهادات





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, QZT. Lists various substances like Cadmium, Lead, Mercury, Hexavalent Chromium, Sum of PBBs, etc. with their respective limits and units.



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

E490354

Type	Cond Width		Cond Thk	SS/ DS/ DSO	Max Area Diam	Max Solder Limits		Max Oper Temp		Meets UL796	C
	Min	Edge				C	sec	C	Class		
	mm(in)	mm(in)	mic(mil)		mm(in)	C	sec	C	Class	DSR	I
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.

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القدرة العملية

قدرات إنتاج ثنائي الفينيل متعدد الكلور		SMT قدرات إنتاج	
عدد الطبقات	طبقة 32- طبقة 1	مادة ثنائي الفينيل متعدد الكلور	لوح من الألومنيوم ، CEM-1 ، CEM-3 ، FR-4
سمك النحاس النهائي	1 / 3oz-12oz	الحد الأقصى لحجم ثنائي الفينيل متعدد الكلور	510x460 مم
الحد الأدنى لعرض الخط / التباعد الداخلي	3.0 ميل / 3.0 ميل	الحد الأدنى لحجم ثنائي الفينيل متعدد الكلور	50x50 مم
الحد الأدنى لعرض / تباعد الخط الخارجي	4.0 ميل / 4.0 ميل	سمك ثنائي الفينيل متعدد الكلور	0.5 مم - 4.5 مم
أقصى نسبة العرض إلى الارتفاع	10: 1	سمك مجلس	0.5-4 ملم
سمك مجلس	0.2 مم - 5.0 مم	الحد الأدنى لحجم المكونات	0201
(الحد الأقصى لحجم اللوحة (بال بوصة	635 * 1500 مم	مكون حجم رقاقة قياسي	0603 وأكبر
الحد الأدنى لحجم الثقب المحفور	4 ميل	ارتفاع المكون الأقصى	15 ملم
Plated التسامح مع ثقب	میل 3 +/-	الحد الأدنى للرصاص	0.3 ملم
Blind / Buried Vias (All أنواع)	نعم	الحد الأدنى لملمع الكرة بفا	0.4 مم
(غير التعتية (موصلة وغير موصلة	نعم	دقة التنسيب	+/- 0.03 ملم
مادة أساسية	FR-4 ، FR-4hg Tg. ، روجرز ، مادة خالية من الهالوجين ، بوليميد ، نحاس ثقيل ،		
التشطيبات السطحية	HASL ، OSP ، ENIG ، HAL-LF ، Immersion silver ، القصدير ، أصابع ، الذهب ، حبر الكربون		

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 البصريات 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 البصريات الآلي) في جميع الحالات. 1.4 يجب أن تكون العملية متوافقة مع المواصفات القياسية 1.5

.3 O-Leading

FR4 Rogers Arlon Telfon 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

LDI Screen Hitachi

.7

ENIG OSP LF-HASL OSP ENIG + 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 Wire Wire Board FPC

.11 PCB

Tg CTE 250

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POLAR INSTRUMENTS.
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