

□□ □□□ □□□□□ O-□□□□□□

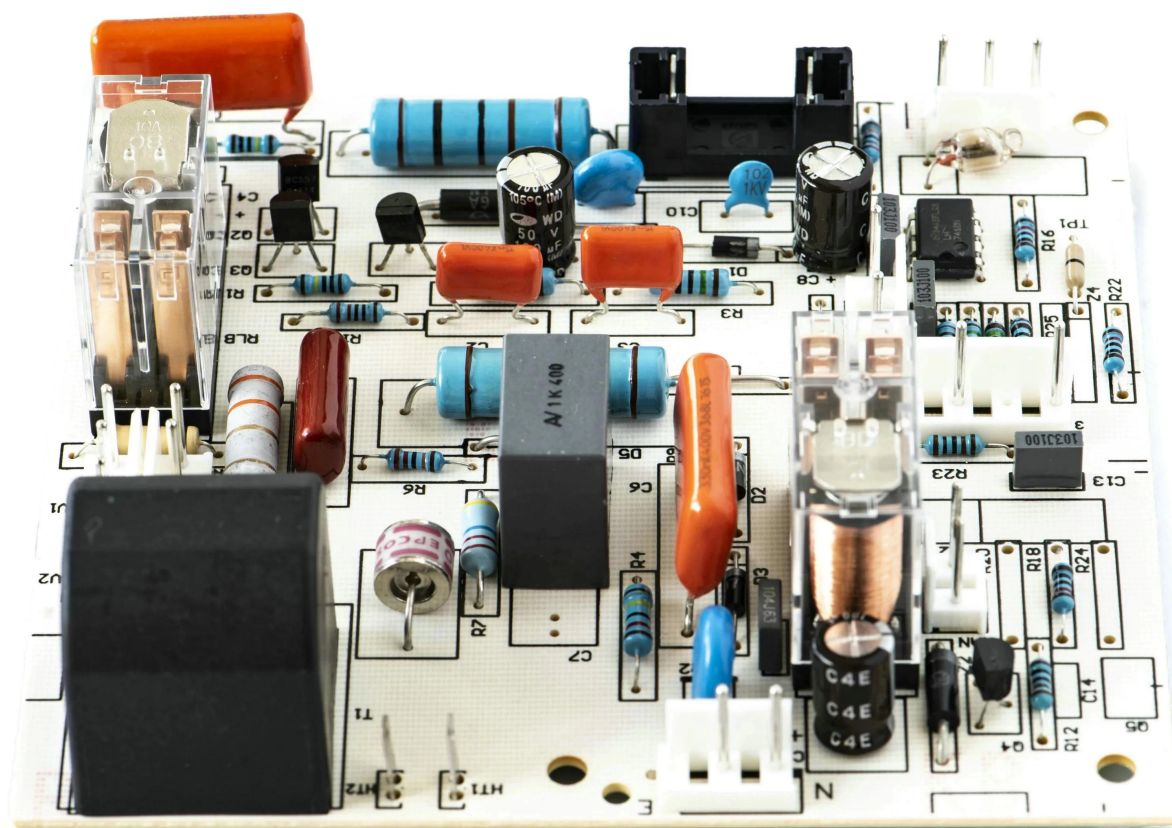
00000 O-Leading 000000 000000 00 0000000 000000 000000 000000 EMS 0 000000 000000000 000000 000000 0000 00 0000 00000000 000000 000000000 000000 0000000 0 00000000 0000000 00000000 000000 00000000 0 00000000 (PCBA). .00000000 00000000 00000000 000 00000000 000000000 00000000 00000000 00000000 00 000000 0000000000000000.

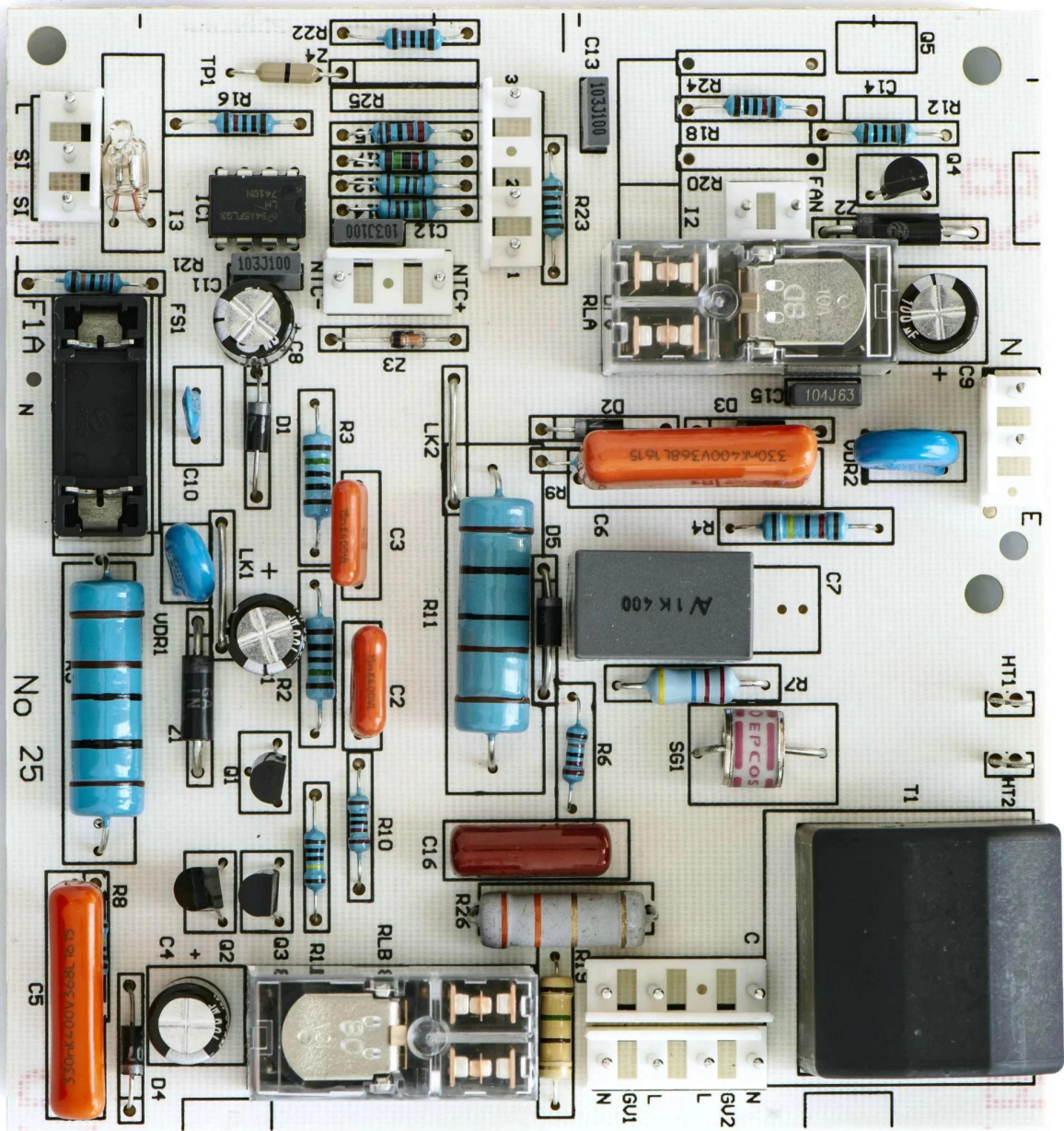
[illegible]

000000 0 0000000000 0000 00000000 O-00 0000 0000000000000000 000000 0000000000 0000000 0000000 0000 00000000
0 0000000 0000000 00000000 000000 000000 0000 0000 00000000 0000000 0000000 0 0000000 000000 PCBA 000000
0000000000 0000000 00 0000000 00000 0000000 0000000 00 000000.

QUESTION The following information was obtained from the records of the Department of Health and Human Services:

11111111 11111





فرقنا



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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/terms-and-conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/terms-and-conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions. If any, the Company's sole responsibility is to the 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 in full, 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 results shown in this test report refer only to the sample(s) tested.

www.sgs.com/terms-and-conditions
SGS (Shenzhen) Standards Technical Services Co., Ltd. (hereinafter "SGS") is a member of the SGS Group (SGS SA)
中国·深圳·龙岗区坂田街道中环路430号13楼工业园4楼SGS大厦 邮编: 518129 | 86-755-83208888 | 86-755-83106190 | www.sgs.com or sgs.china@sgs.com

Member of the SGS Group (SGS SA)



Test Report

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 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.

Test item(s)	Limit	Unit	MDL	Q/Z
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
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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/terms-and-conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/terms-and-conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions. If any, the Company's sole responsibility is to the 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 in full, 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 results shown in this test report refer only to the sample(s) tested.

www.sgs.com/terms-and-conditions
SGS (Shenzhen) Standards Technical Services Co., Ltd. (hereinafter "SGS") is a member of the SGS Group (SGS SA)
中国·深圳·龙岗区坂田街道中环路430号13楼工业园4楼SGS大厦 邮编: 518129 | 86-755-83208888 | 86-755-83106190 | www.sgs.com or sgs.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 C	C		
	Min	Min			Area	Solder	Oper			Flame	
	mm(in)	mm(in)			Diam	Limits	Temp			UL796	
					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.

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”

القدرة العملية

قدرات إنتاج ثنائي الغينيل متعدد الكلور		SMT قدرات إنتاج	
عدد الطبقات	طبقة 32- طبقة 1	مادة ثنائي الغينيل متعدد الكلور	لوح من الألمنيوم ، CEM-3 ، CEM-1 ، FR-4
سمك النحاس النهائي	1 / 3oz-12oz	الحد الأقصى لحجم ثنائي الغينيل متعدد الكلور	510x460 مم
الحد الأدنى لعرض الخط / التباعد الداخلي	3.0 ميل / 3.0 ميل	الحد الأدنى لحجم ثنائي الغينيل متعدد الكلور	50x50 مم
الحد الأدنى لعرض / تباعد الخط الخارجي	4.0 ميل / 4.0 ميل	سمك ثنائي الغينيل متعدد الكلور	مم - 4.5 مم 0.5
أقصى نسبة العرض إلى الارتفاع	10: 1	سمكة مجلس	0.5-4 ملم
سمكة مجلس	مم - 5.0 مم 0.2	الحد الأدنى لحجم المكونات	0201
(الحد الأقصى لحجم اللوحة) (بال بوصة)	مم 635 * 1500	مكون حجم رقاقة قياسي	وأكثر 0603
الحد الأدنى لحجم الثقب المحفور	4 ميل	ارتفاع المكون الأقصى	15 ملم
Plated التسامح مع ثقب	3 ميل +/-	الحد الأدنى للرصاص	0.3 ملم
Blind / Buried Vias (أنواع All)	نعم	الحد الأدنى لملمع الكرة بفا	0.4 مم
(غير التعبئة) (موصلة وغير موصلة)	نعم	دقة التنسيب	ملم 0.03 +/-
مادة أساسية	FR-4 ، FR-4hg Tg. ، مادة خالية من الهالوجين ، Rogers ، فاعدة ألومنيوم ، 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

.اختبار O-Leading هو اختبار جودة تصنيع PCB

مستند إلى معيار 1.1 ISO 9001: 2008.

1.2 اختبار O-Leading هو اختبار جودة تصنيع PCB

مستند إلى معيار 1.3 AOI

(.اختبار O-Leading هو اختبار جودة تصنيع PCB)

1.4 اختبار O-Leading هو اختبار جودة تصنيع PCB

1.5 اختبار O-Leading هو اختبار جودة تصنيع PCB

2 O-Leading

هو اختبار جودة تصنيع PCB

.اختبار O-Leading هو اختبار جودة تصنيع PCB

.اختبار O-Leading هو اختبار جودة تصنيع PCB

.اختبار O-Leading هو اختبار جودة تصنيع PCB

.اختبار O-Leading هو اختبار جودة تصنيع PCB

.اختبار O-Leading هو اختبار جودة تصنيع PCB

.اختبار O-Leading هو اختبار جودة تصنيع PCB

000000 00000 00 00000 00000 000000000 000000 00 00 **.3 O-Leading**

000000 FR4 000000 0 000000000 TG 00000000000 00 0000000 0 Rogers 0 Arlon 0 Telfon 0 00 0000000000 000000000
0000000 / 000000000000 0 PI 0 .000

000000000 000000 000000000 000000 0 00000000 000000 000000000 000000 000000000 000000000 00 00 **.4**

.0000000 00000 000000000 00000000 00000 000000 0000 :0000000000 0000000000 00 (00000000 000000) 00000000 000000 4.1
000000 4.2 PCB Gerber.

4.3 000000 0000 PCB 000000 00000 PCBA.

4.4 .0000000000 000000000

.0000000000 00000000 000000000 0000 00000000000 00000 00 4.5

0000000000 000000 00000000 000000 00000000 00000000 000000000 00000000 00000000 000000 00 00 **.5**

000000 0000 ← 0000000 0000 000000 0000 ← AOI 000000 ← 00000000 00000000 000000 ← 00000000 000000 ← 000000
← PTH ← 0000000 ← 000000000 000000 ← 000000 00000 ← 000000 0000 00000 ← 0000000 00000 AOI ← ← 00000000 00000
000000000 ← 000000 0000000 ← 00000000000 000000 ← E / T ← .0000000 000000

00000000 0000000000 000000000 00 00 **.6 HDI**

00 0 000000 0000 0 000000000 000000 0000 :0000 0000 00 0000000000 000000000 000000 VCP 0 0000000000 000000000 0000 0
LDI .00000000

000000 0 000000000 00000000000 00 00 000000000 000000 000000 0 000000000 00 0000000 00 000000 00000 000000000 LDI
00 Screen (00 000000 00 00000000000 000000000 000000 0 (000000000 Hitachi 0 0000000 00000000 00000000 0000000
.000000000 0000000000 00000000000

000000000 00000000 00 00000 00000 000000000 00000000000 000000 0000 00 **.7**

O- 0000 0 000000 00000000000 000000000 00 000000 000000 00000 0000000: ENIG 0 OSP 0 LF-HASL 0 000000 00000
00000000 000000000 0000000 0 000000 0000000000 00000 0 000000 00000 0 000000000 0 000000 0000 0 (0000 / 00000). OSP 0
ENIG 0 OSP + ENIG 0000 000000000000 00000 HDI 0 00 00000 00000000000 000000 00000 OSP OSP + ENIG 0000 0000
0000 BGA PAD .00 0.3 00 0000

0000 000000 00 00 **.8 FPC**000000 00000 00 0 **O-Leading** 00000 000000 **SMT** 0000000

00000 00 00000 O-Leading 00000000 FPC 00000 000000 00000 0000 00000 00 000000 0 8 00000 0000 000000 00000 00
2000mm * 240mm 0 00000 00 00000000000 0000 000000000 00000 "Flex Flexability"
00000 00000 0000 SMT .0000000000 0000000 000000

000000000 000000 000000000 000000 0000 0000 00000 00000 0000000000 000000000 00 00 **- 9**

0000000
00000000 0000
00000000000000 000000
0 0000000000 00000000 00000000
0 0000000 0000000 00000000 000000 000000
0000000 00000
.0000000000 0000000000 0000000

000000 00 00 **.10 PCB 0 PWB 0 FPC** 00000000 0000

0 0000000000 000000000 000000 0000000 00 00000000 0000000 00000000 0000000
PWB 00 00000000 00 Wire Wire Board 0 0 0000000000 0000000000000000 000000000 00000 0000 0000
FPC .00000 00000000 0000000 00000000

000000 00000000 00000000 00000000 0000 000000000 00 000000 0000 00000 000000000 00 00 **.11 PCB**

:000000000 000000 000000000 000000 00000 00000 0000 000000000 000000000 000000000 000000000 000000000 0000
00000 00000 00 0000 Tg 0 0000000000 0000000 00000 00 00000 00000000
00000 0000000 CTE 0 000000000 0000000000000 000000 000000000 00000000000
°C 250 000000000 000000000 00000000 0000000 000000000 0000000 00000000 00000 00 00000 :0000000000 0000000000 0000 00000

.000000 000 00000 50 0000

000 00000 000000 / 000000 00000 000 0000 0000000 000 0 00000000000 0000000 000 0000000 0 000 000000
00000000 0000000000 0000000000 0000000000 00000000 0 0000000 0000 0000000 000000 00000000 000000
0000000 0000000 0000000 000000 0000000 0000000 0 0000 00000 000000 000000 0000000 000000
.00000000

0000000 000000 000000000 000000 000000 00 00 **.12 ridid-flex** 0000000

000000 PCB 00 0000000 000000 O-00 00 0000000 000 00000000 FPC 0 PCB 0 000 00 0000000000 0000 0000
0000000000 00000000 000000 00 000000 00 00000 0 000 000000 000000 000000 00000 0000000000 000 .00000000 0000000000
.00000000 00000000 00000000 000 00000000 0 00000000

00000000000 000000 00000 000 **.13**

0000000000 000000 000 00000000000 0000000000 00 00000000 00000 000000 000 0 SI6000 soft 00000000 CITS 500s 00
POLAR INSTRUMENTS.

0000000000 000000 00000 00000000 00000000 00000 0000000000 00000000 000000 0000000 00000000 000000 00000.