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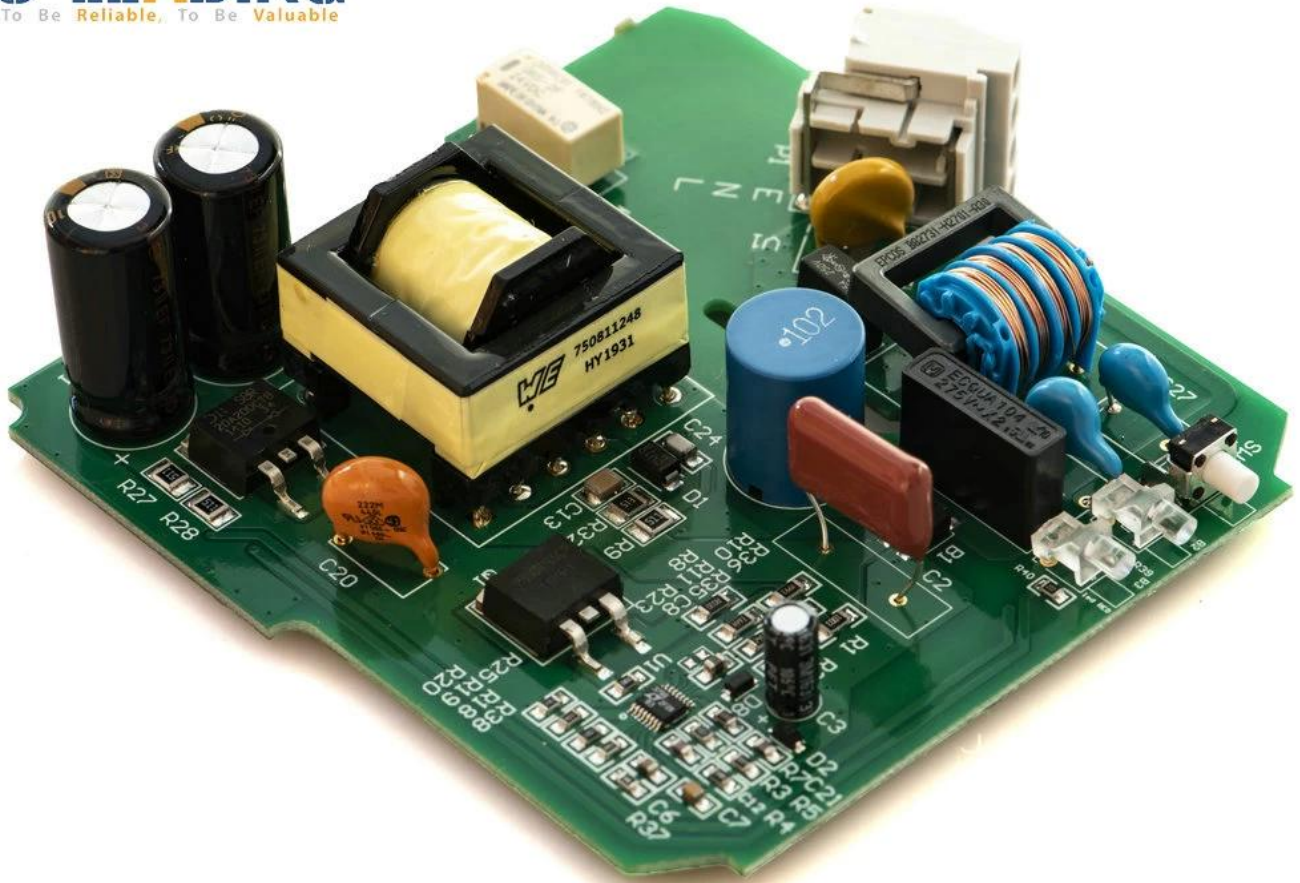
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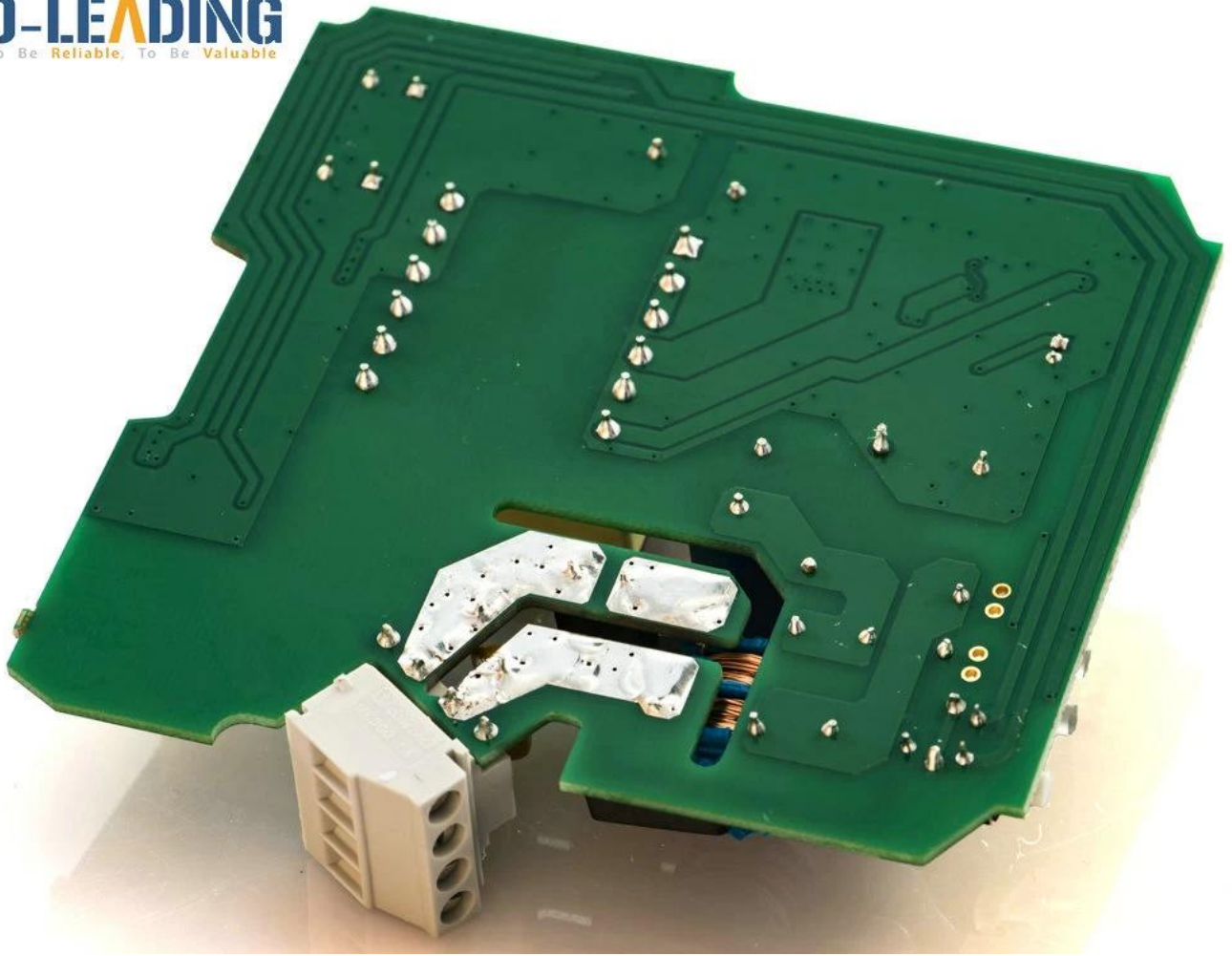


WE MAKE YOUR IDEA COME TRUE

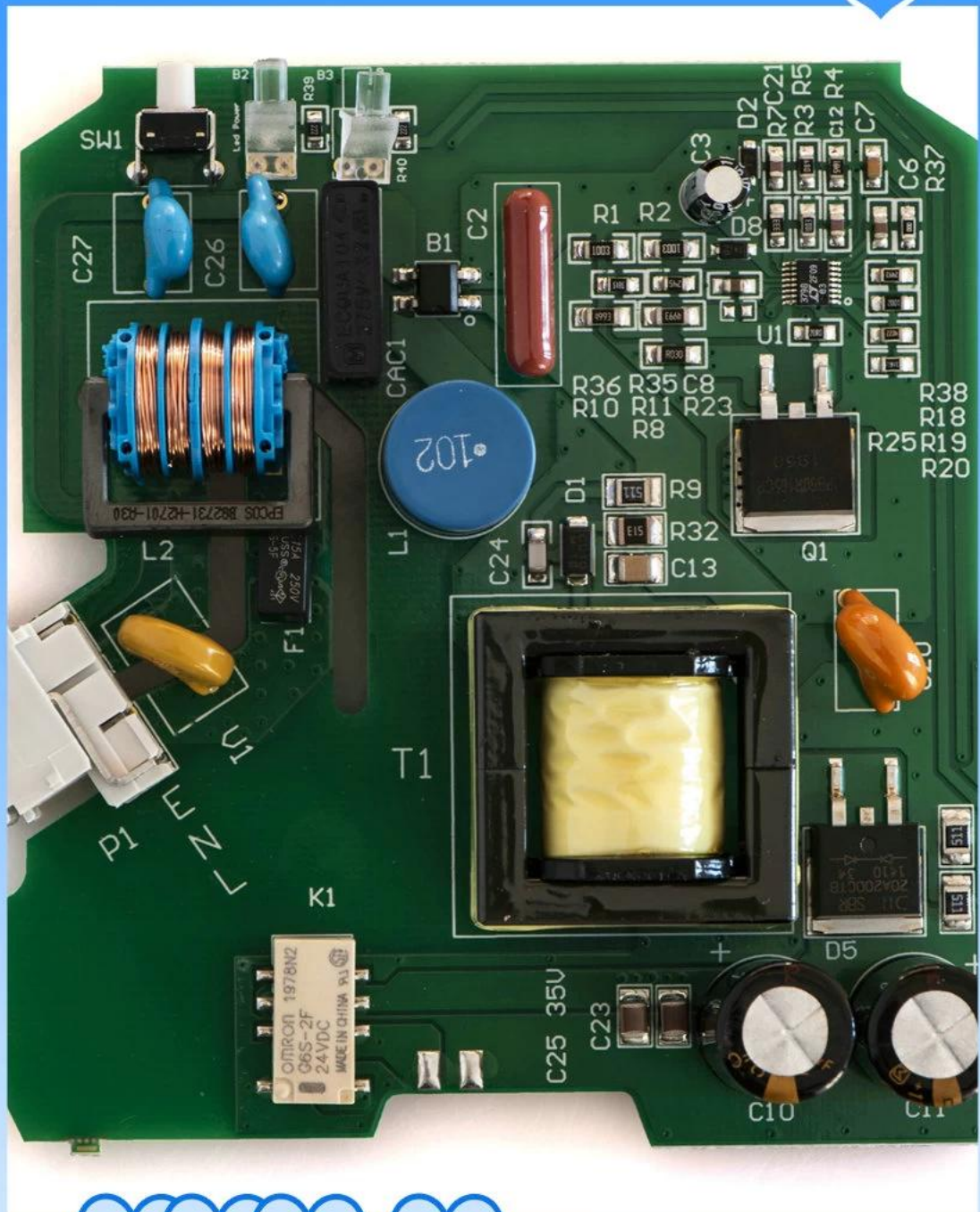
HDI PCB 0000000000000000







15 YEARS EXPERIENCE

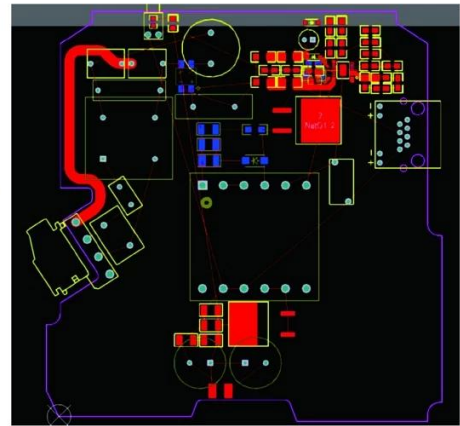


O-LEADING
To Be Reliable, To Be Valuable

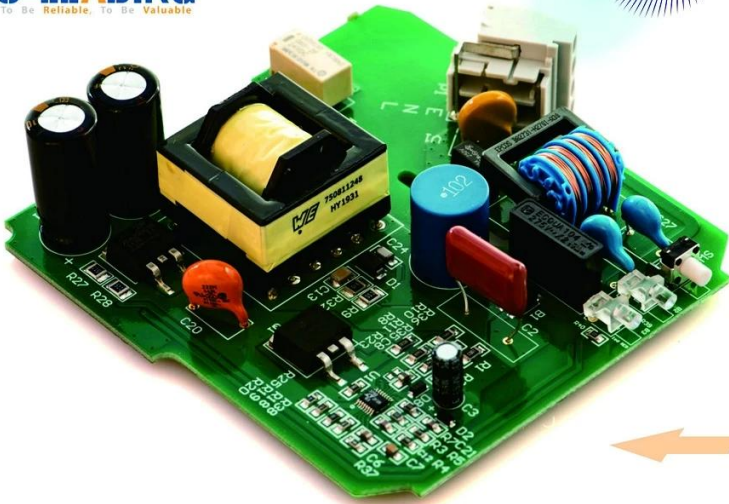
BOM

Item	Qty	Reference	Part Description	Manufacturer / Part #
1	1	B1	RECTIFIER, BRIDGE 600V 0.8A	DIODES INC. HD06-T
2	1	CAC1	CAP. 0.1uF 20% 250V/275VAC ECQ-UL	PANASONIC, ECQUAAF104M
3	1	C2	CAP. FILM, 0.22uF 20% 400V	PANASONIC ECQE4224KF
4	1	C3	CAP. 10uF 20% 50V ALUM	RUBYCON 50YXJ10M 5X11
5	1	C6	CAP. 0805 0.1uF 10% 50V X7R	TDK, C2012X7R1H104K
6	1	C7	CAP. 0805 2.2uF 10% 50V X5R	TDK, C2012X5R1H225K
7	1	C8	CAP. 0805 4.7uF 20% 16V X5R	AVX 0805YD475MAT2A
8	2	C10,C11	CAP. 1000uF 20% 35V ELEC	Panasonic EEUF1V102
9	1	C13	CAP. 1210 2.2nF, 5% 630V U2J	Murata, GRM32A7U2J222JW31D
10	1	C20	CAP. 2.2nF 20% 400V, Y5U TYPE "Y1"	VISHAY, 440LD22-R
11	2	C12,C21	CAP. 0805 22pF +/-0.25pF 50V NPO	AVX, 08055A220JAT2A
12	2	C23,C25	CAP. 1210 10uF 20% 35V X5R	Murata, GRM32ER7YA106KA12L
13	1	C24	CAP. 1206 47pF 10% 630V NPO	Murata, GRM31A5C2J470JW01D
14	2	C25,C26	CAP. 2.2nF 20% 300VAC RADIAL	Murata, DE6E3KJ222MN3A
15	1	D1	DIODE, ULTRA FAST RECTIFIER	CENTRAL SEMI, CMR1U-10M
16	1	D2	DIODE, FAST SWITCHING	DIODES INC., BAV20W-7-F
17	1	D5	DIODE, SUPER BARRIER RECIFIER 20A	DIODES INC., SBR20A200CTB
18	1	D8	DIODE, FAST SWITCHING	DIODES INC., 1N4148W-7-F
19	1	F1	FUSE, 3.15A, FAST ACTING	COOPER BUSSMAN, SS-5F-3.15A

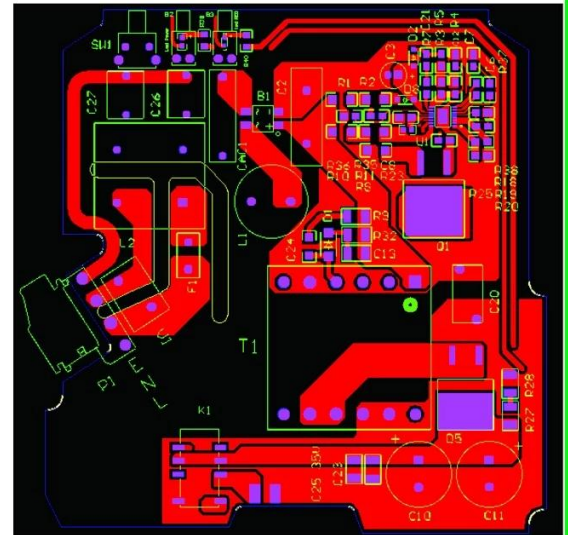
SCH



O-LEADING
To Be Reliable, To Be Valuable



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





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 Fan
Approved Signatory



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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

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中国·深圳·龙岗区田面华路430号江田工业园4楼SQS大厦 邮编:518129 t (86-755)25328888 f (86-755)83106190 e sqs_china@sqsg.com

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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

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	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.

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القدرة العملية

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

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

مستند إلى معيار ISO 9001: 2008.

1.2 اختبار O-Leading هو اختبار جودة

مستند إلى معيار ISO 9001: 2008. 1.3 اختبار AOI

(.اختبار O-Leading) هو اختبار جودة

مستند إلى معيار ISO 9001: 2008. 1.4

اختبار O-Leading هو اختبار جودة

2. اختبار O-Leading

هو اختبار جودة مستند إلى معيار ISO 9001: 2008

.اختبار O-Leading هو اختبار جودة مستند إلى معيار ISO 9001: 2008

.اختبار O-Leading هو اختبار جودة

مستند إلى معيار ISO 9001: 2008. اختبار O-Leading هو اختبار جودة

مستند إلى معيار ISO 9001: 2008. اختبار O-Leading هو اختبار جودة

مستند إلى معيار ISO 9001: 2008. اختبار O-Leading هو اختبار جودة

.اختبار O-Leading

03 O-Leading

FR4 PCB PCB TG PCB Rogers PCB Arlon PCB Telfon PCB PCB PI PCB

04

4.1 4.2 PCB Gerber.

4.3 PCB PCB PCBA.

4.4

4.5

05

AOI PTH AOI E / T

06 HDI

VCP LDI

LDI Screen Hitachi

07

ENIG OSP LF-HASL ENIG OSP + ENIG HDI OSP OSP + ENIG BGA PAD 0.3

08 FPC O-Leading SMT

8 2000mm * 240mm "Flex Flexability" SMT

09

10 PCB PWB FPC

PWB Wire Wire Board FPC

11 PCB

Tg CTE 250

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POLAR INSTRUMENTS.

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