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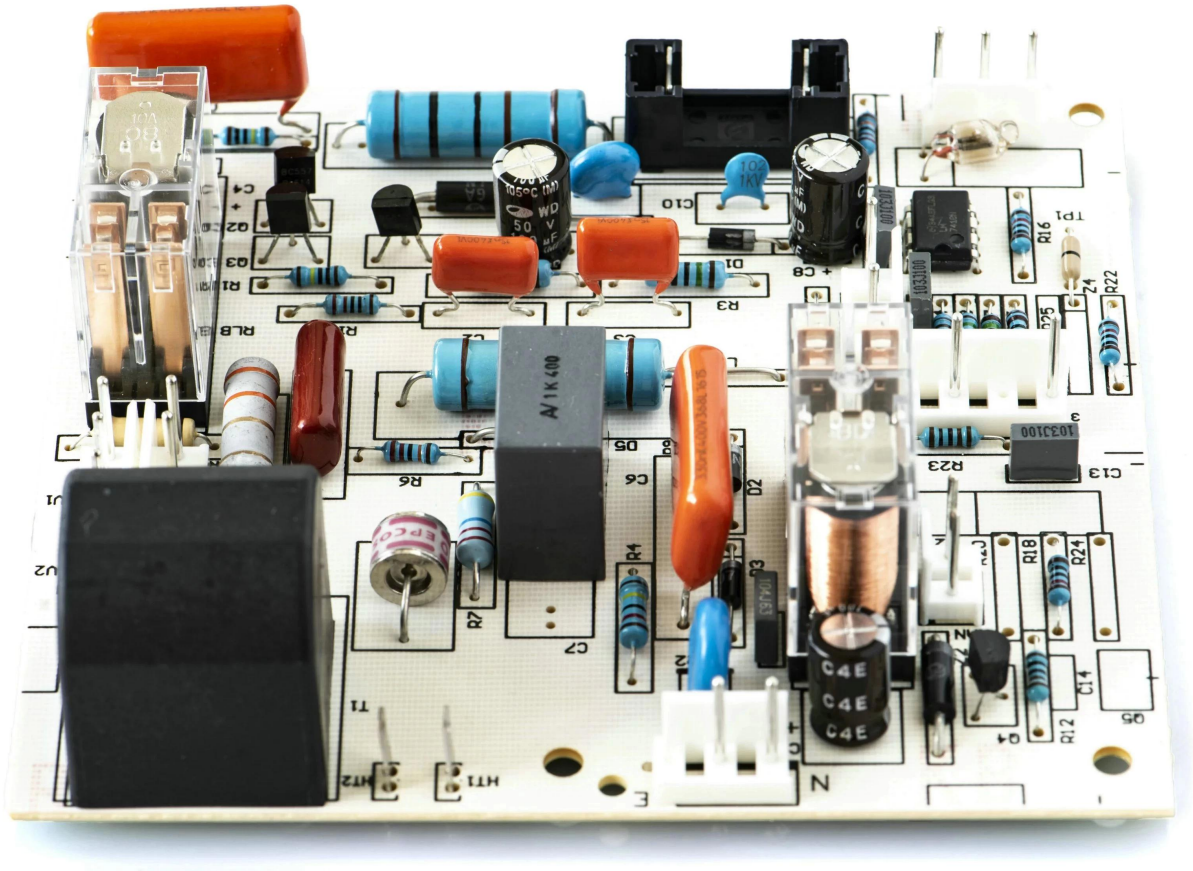

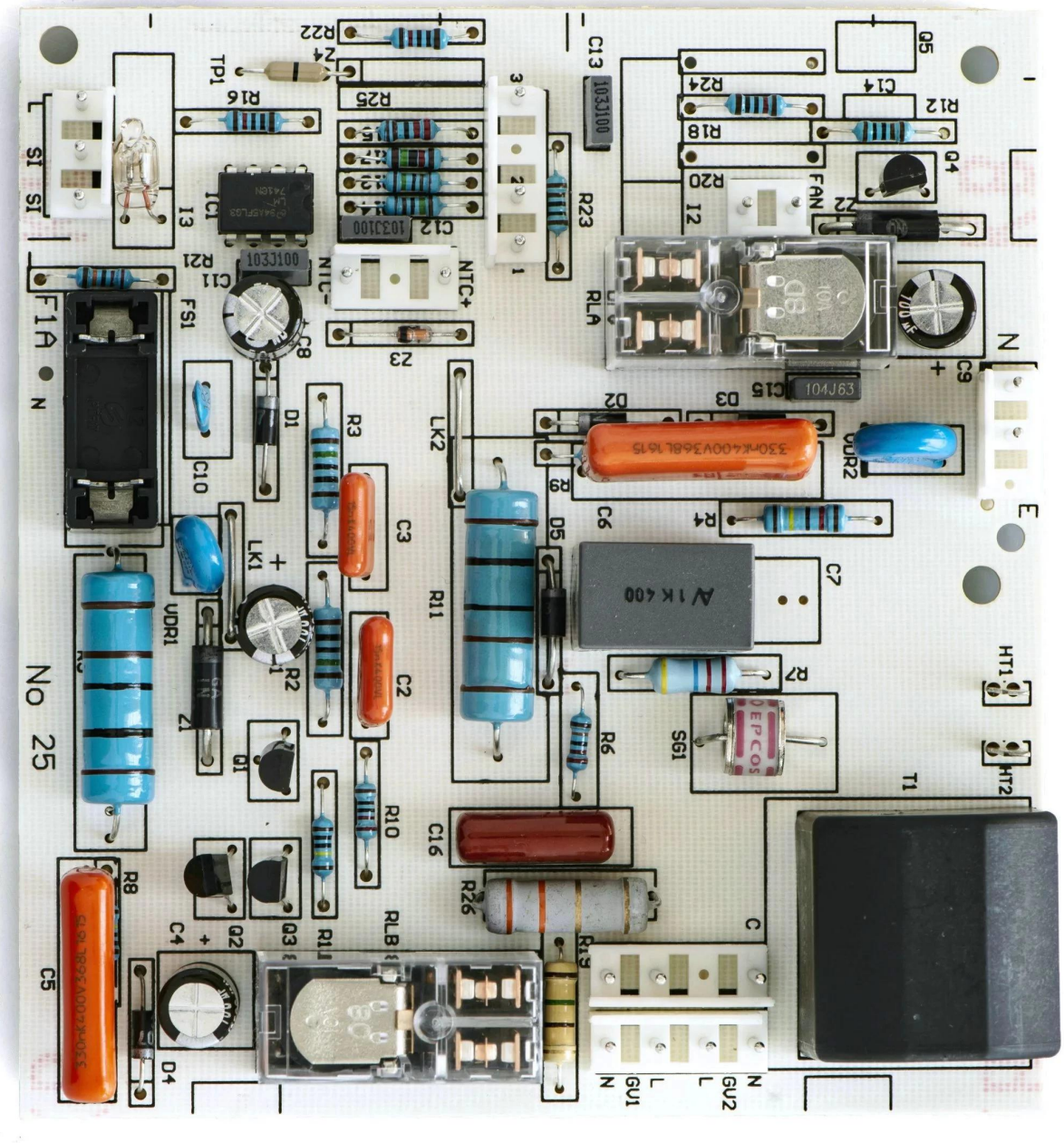
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NTC+
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D5
C7
R11
C3
LK1
VDR1
R2
C2
Z1
D1
R7
HT1
HT2
SG1
EPCOS
T1
R6
R10
C16
R26
R8
C5
Q2
Q3
C4
R14
RLB
R19
D4
GU1
GU2

فريقنا

O-LEADING

## 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

CICC INSPECTION CERTIFICATION

CICC CERTIFICATION
嘉泰认证

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 18118Q10347R0S

We hereby certify that

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

Credit No：61691591-000-07-18-7

Registration Add: FLAT/RM 1205 12/F TAI SANG BANK BUILDING 130-132 DES VOEUS ROAD CENTRAL HK

Business Add: 1313, Floor 13, Fortune Building, Danshui Town, Huiyang District, Huizhou, Guangdong, China

Has implemented and maintains a **Quality Management System**

Which fulfils the requirements of the following standards

GB/T19001-2016 idt ISO9001:2015

**Scope of certification**

Sales of printed circuit boards

Initial Issuance period: February 27, 2018

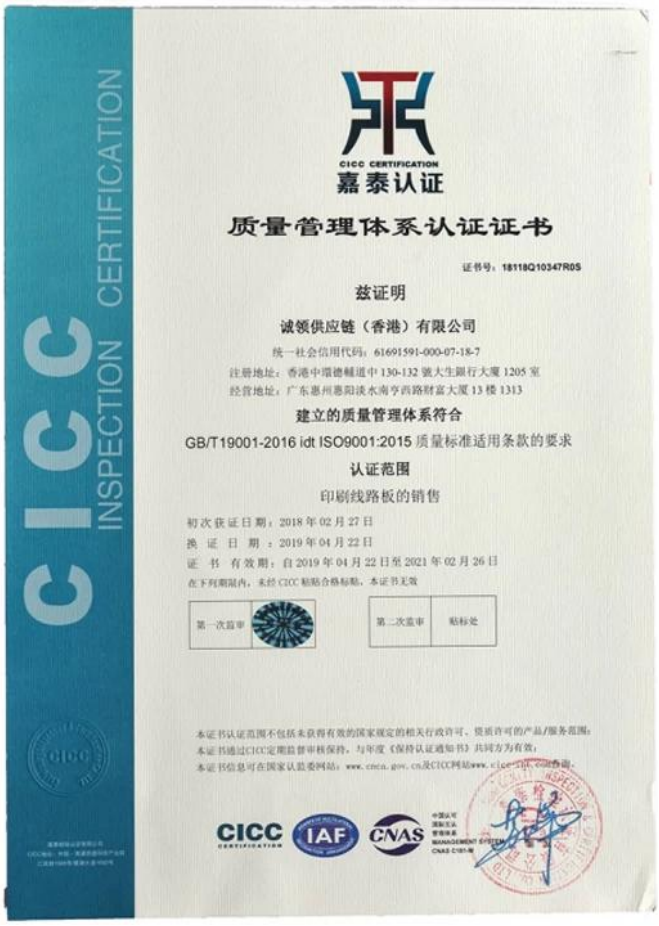
Renewal date: April 22, 2019

This certificate is valid during: April 22, 2019 ~ February 26, 2021

This certificate is invalid without CICC qualified label in the following period

| First supervision and audit | | Second supervision and audit | Qualified mark |
|---|---|---|---|

CICC IAF CNAS



CICC INSPECTION CERTIFICATION

CICC CERTIFICATION
嘉泰认证

质量管理体系认证证书

证书号：18118Q10347R0S

兹证明

诚领供应链（香港）有限公司

统一社会信用代码：61691591-000-07-18-7

注册地址：香港中環德輔道中 130-132 號大生銀行大廈 1205 室

经营地址：广东惠州惠阳淡水南亨西路财富大厦 13 楼 1313

**建立的质量管理体系符合**

GB/T19001-2016 idt ISO9001:2015 质量标准适用条款的要求

**认证范围**

印刷线路板的销售

初次获证日期：2018 年 02 月 27 日

换 证 日 期 ：2019 年 04 月 22 日

证 书 有 效 期：自 2019 年 04 月 22 日至 2021 年 02 月 26 日

在下列期间内，未经 CICC 贴贴合格标贴，本证书无效

| 第一次监审 | | 第二次监审 | 贴标处 |
|---|---|---|---|

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本证书通过CICC定期监督审核保持，与年度《保持认证通知书》共同方为有效；

本证书信息可在国家认监委网站：www.cnca.gov.cn及CICC网站www.cicc-[illegible].com查询。

CICC IAF CNAS

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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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
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Shenzhen Branch
SGS Bldg, No.2, Jingshan Industrial Park, No.498, Jihua Road, Bantian, Longgang District, Shenzhen, China 518129 t (86-755) 25328888 f (86-755) 83106190 www.sgsgroup.com.cn
中国·深圳·龙岗区坂田吉华路430号江灏工业园4栋SGS大楼 邮编: 518129 t (86-755) 25328888 f (86-755) 83106190 e sgs.china@sgs.com
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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, 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 | 001 |
|---|---|---|---|---|
| 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 |

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UL Product iQ™

# 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 Min mm(in) | Min Edge mm(in) | Cond Thk mic(mil) | SS/ DS/ DSO | Max Area Diam mm(in) | Solder Limits C | sec | Max Oper Temp C | Flame Class | Meets UL796 DSR | CTI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **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。

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# القدرة العملية

| قدرات إنتاج SMT | |
|---|---|
| مادة ثنائي الفينيل متعدد الكلور | لوح من الألومنيوم ، CEM-3 ، CEM-1 ، FR-4 |
| الحد الأقصى لحجم ثنائي الفينيل متعدد الكلور | 510x460 مم |
| الحد الأدنى لحجم ثنائي الفينيل متعدد الكلور | 50x50 مم |
| سمك ثنائي الفينيل متعدد الكلور | 0.5 مم - 4.5 مم |
| سماكة مجلس | 0.5-4 ملم |
| الحد الأدنى لحجم المكونات | 0201 |
| مكون حجم رقاقة قياسي | وأكبر 0603 |
| ارتفاع المكون الأقصى | 15 ملم |
| الحد الأدنى للرصاص | 0.3 ملم |
| الحد الأدنى لملعب الكرة بغا | 0.4 مم |
| دقة التنسيب | +/- 0.03 ملم |

| قدرات إنتاج ثنائي الفينيل متعدد الكلور | |
|---|---|
| عدد الطبقات | 1 طبقة -32 طبقة |
| سمك النحاس النهائي | 1 / 3oz-12oz |
| الحد الأدنى لعرض الخط / التباعد الداخلي | 3.0 ميل / 3.0 ميل |
| الحد الأدنى لعرض / تباعد الخط الخارجي | 4.0 ميل / 4.0 ميل |
| أقصى نسبة العرض إلى الارتفاع | 10: 1 |
| سماكة مجلس | 0.2 مم - 5.0 مم |
| الحد الأقصى لحجم اللوحة (بالبوصة) | 635 * 1500 مم |
| الحد الأدنى لحجم الثقب المحفور | 4 ميل |
| التسامح مع ثقب Plated | +/- 3 ميل |
| Blind / Buried Vias (أنواع All) | نعم |
| (عبر التعبئة (موصلة وغير موصلة | نعم |
| مادة أساسية | FR-4 ، FR-4hg Tg. قاعدة ألومنيوم ، Rogers ، مادة خالية من الهالوجين ،بوليميد ، نحاس ثقيل |
| التشطيبات السطحية | HASL ، OSP ، ENIG ، HAL-LF ، Immersion silver، القصدير ، أصابع الذهب ، حبر الكربون |

# التعبئة والتغليف والتسليم

| 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.** □□□□ □□□ **O-Leading** □□□□□□□□
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