

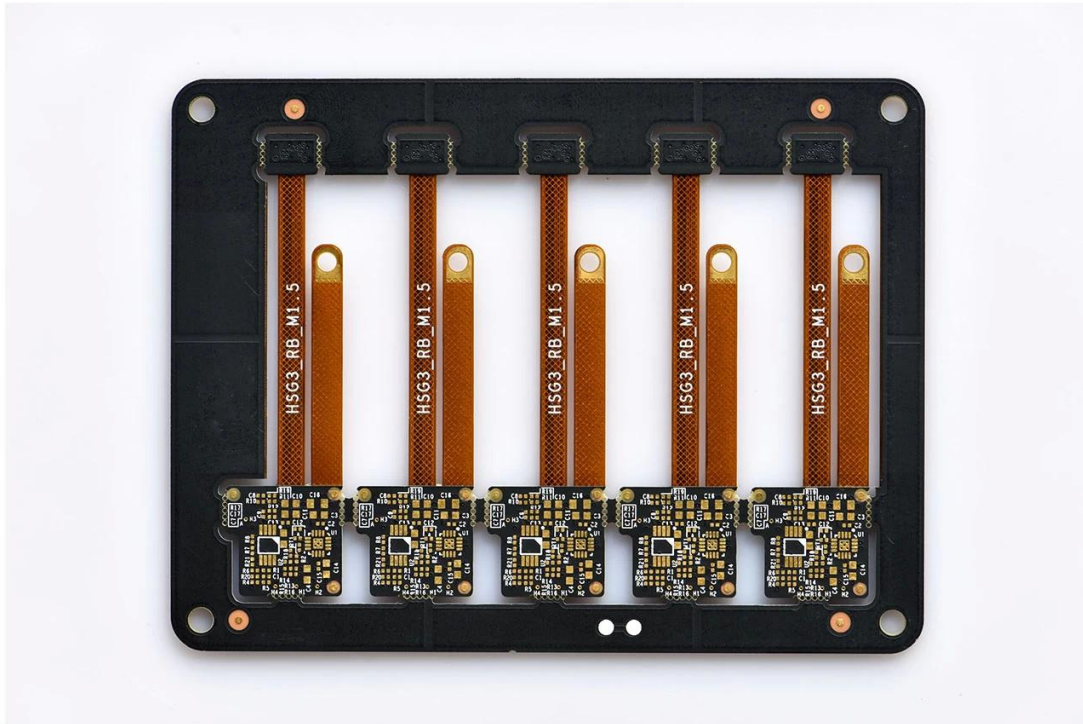
PCB P/N

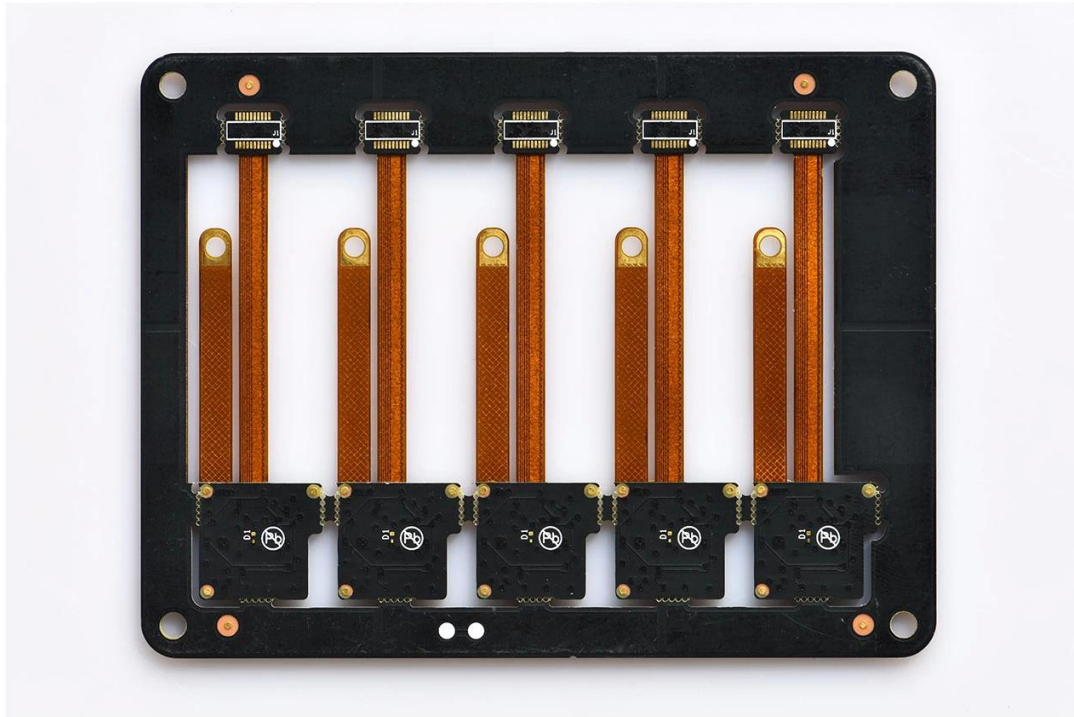
PCB P/N: HSG3_RB_M1.5
 PCB Material: FR-4 TG170
 PCB Thickness: 0.80mm
 PCB Layers: 4L (L1 L4 Rigid L2 L3 Flex)
 PCB Finish: ENIG Au: 0.05-0.10um
 Panelisation: Dim X (mm): 119.30 Dim Y (mm): 93.00 No of UPS: 5
 CNC: Yes

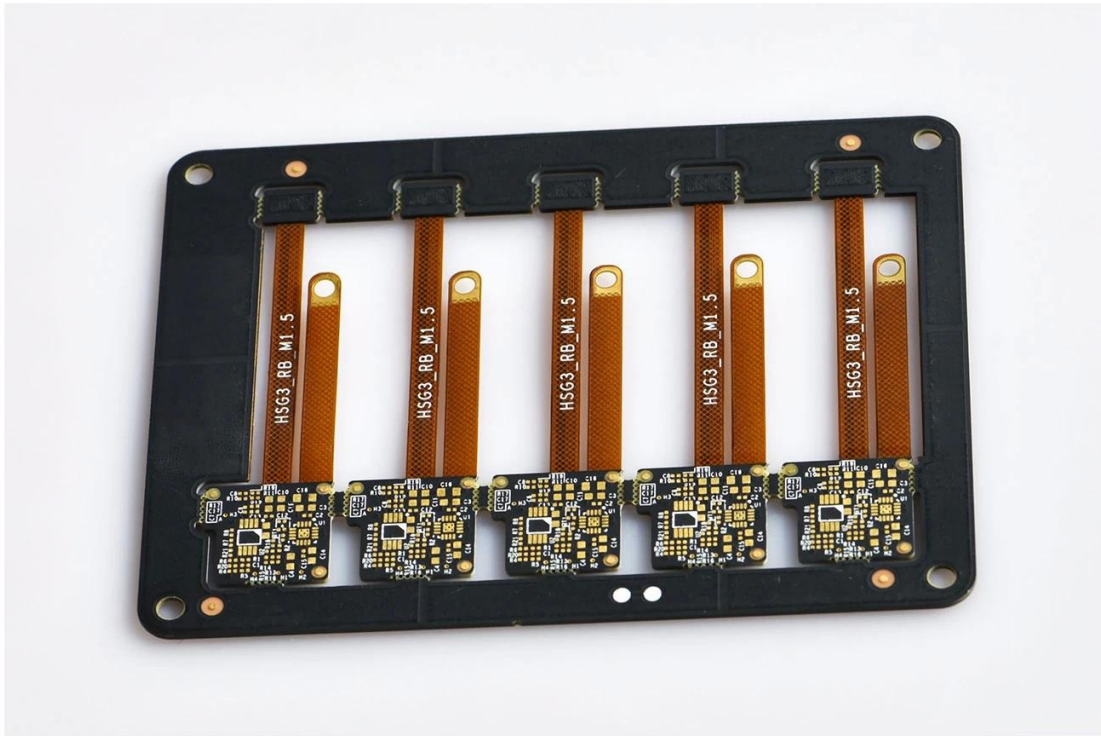
025. PCB P/N: HSG3_RB_M1.5
 PCB Material: FR-4 TG170
 PCB Thickness: 0.80mm
 PCB Layers: 4L (L1 L4 Rigid L2 L3 Flex)
 PCB Finish: ENIG Au: 0.05-0.10um
 Panelisation: Dim X (mm): 119.30 Dim Y (mm): 93.00 No of UPS: 5
 CNC: Yes

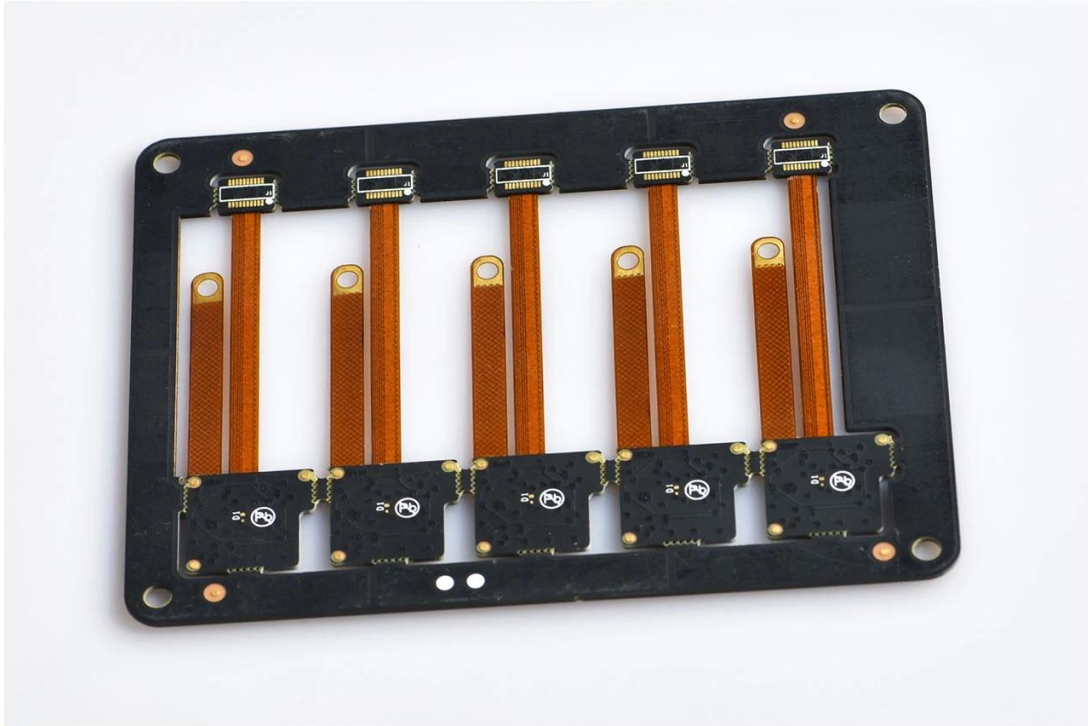
PCB P/N

| | |
|----------------------------|---|
| PCB P / N | HSG3_RB_M1.5 |
| PCB Layers | 4L (L1 L4 Rigid L2 L3 Flex) |
| PCB Material | FR-4 TG170 |
| PCB thk | 0.80mm |
| PCB Layers | 1 / H / H / 1OZ |
| PCB Thickness | 0.2MM |
| PCB Material (FR-4 TG170) | 97 |
| PCB Thickness | 4 / 4mil |
| PCB Material. Y / N (FR-4) | N |
| PCB Finish | ENIG Au: 0.05-0.10um |
| PCB Thickness | PCB / PCB |
| PCB Thickness | Dim X (mm): 16.50 Dim Y (mm): 77.00 |
| Panelisation | Dim X (mm): 119.30 Dim Y (mm): 93.00 No of UPS: 5 |
| PCB Thickness : PCB: | N |
| PCB / PCB | CNC |









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QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 16118Q10347R05

We hereby certify that

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

Credit No.: 61691591-000-07-17-2

Registration Add: ROOM 603D 6/F HANG PONT COMMERCIAL BUILDING, 31 TONKIN ST. CHEUNG SHA WAN, KL, HK

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

Has implemented and maintains a **Quality Management System** Which fulfills 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
This certificate is valid during: February 27, 2018 -- February 26, 2021
This certificate is invalid without CICC qualified label in the following period

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

The certification registration scope shall include those production services scopes which fall to be covered by the relevant effective administrative permission and qualification permission required by the state. The effectiveness of this certificate shall be evaluated by annual surveillance audit of CICC. The certificate shall be valid when used together with the surveillance audit conclusion. The related information of this certification can be searched on the public website of www.cicc.com.cn.

CICC IAF CNAS

201726 201VZL430354 - Wiring, Printed - Component

UL ONLINE CERTIFICATIONS DIRECTORY

ZPMV2.E490354
Wiring, Printed - Component

For enhanced search functionality, please visit ul.com Family of Databases. Click on a product designation for complete information.

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Wiring, Printed - Component

See General Information for Wiring, Printed - Components

O-LEADING SUPPLY CHAIN CO LIMITED 4190354
Fortune Building, Nanheng West Road
Room 1313
Huizhou, Guangdong 516211, CHINA

| Cond Width | | | | Min | | Max | | | | | |
|---|---------------|-------------------|--------|---------------|---------------|------|------|-------|------|---|---|
| Min | Edge | Cond | SS/Thk | Area DS/ Diam | Solder Limits | Dper | Temp | Flame | RoHS | C | T |
| mm(in) | mm(in) | mil(mm) | DS | mm(in) | C | sec | C | Class | DSR | I | |
| Multi-layer (mass laminate) printed wiring boards. | | | | | | | | | | | |
| O-LEADING-401 | | | | | | | | | | | |
| 0.2 (0.004) | 0.3 (0.012) | 34 (0.34) | D6 | 12.7 (0.5) | 260 | 10 | 130 | V-0 | - | - | - |
| O-LEADING-407 | | | | | | | | | | | |
| 0.08 (0.003) | 0.2 (0.008) | 17 (0.67) | D5 | 9.2 (0.4) | 260 | 10 | 170 | V-0 | NI | - | - |
| Multi-layer printed wiring boards. | | | | | | | | | | | |
| O-LEADING-408 | | | | | | | | | | | |
| 0.125 (0.005) | 0.125 (0.005) | 12 (0.47) 11:1.35 | D6 | 50.8 (2.0) | 260 | 20 | 130 | V-0 | NI | - | - |
| Single layer printed wiring boards. | | | | | | | | | | | |
| O-LEADING-002 | | | | | | | | | | | |
| 0.76 (0.015) | 1.14 (0.045) | 34 (1.34) | S5 | 19.1 (0.8) | 260 | 10 | 105 | V-0 | NI | - | - |
| O-LEADING-003 | | | | | | | | | | | |
| 0.38 (0.015) | 1.14 (0.045) | 34 (1.34) | S5 | 19.1 (0.8) | 260 | 10 | 130 | V-0 | ▲ | - | - |
| O-LEADING-033 | | | | | | | | | | | |
| 0.15 (0.006) | 0.3 (0.012) | 34 (1.34) | S5 | 25.4 (1.0) | 260 | 10 | 120 | V-0 | NI | - | - |
| O-LEADING-205 | | | | | | | | | | | |
| 0.1 (0.004) | 0.3 (0.012) | 34 (1.34) | D6 | 69.6 (2.7) | 260 | 10 | 130 | V-0 | NI | - | - |
| O-LEADING-206 | | | | | | | | | | | |
| 0.15 (0.006) | 0.33 (0.013) | 17 (0.67) | D5 | 69.6 (2.7) | 260 | 10 | 130 | V-0 | NI | - | - |

* - 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. Last updated on 2017-01-27

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<http://www.ul.com/ulcertification/60354> ZPMV2.E490354 - Wiring, Printed - Component



Test Report No. CANEC1805164701 Date: 03 Apr 2018 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. **SGS Sample ID** **Description**
SN1 CAN18-051647.001 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 62321-4:2014+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 | Det |
|----------------------------|-------|-------|-----|-----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1,000 | mg/kg | 2 | 9 |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND |
| Hexavalent Chromium (CrVI) | 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 |



Member of the SGS Group (SGS SA)

Shipping service

| | |
|------------------|----------|
| Shipping service | 16 days |
| Shipping service | 7-12days |



Quality control

1. O-Leading quality control
 .O-Leading quality control is a quality control system that is used to ensure that the quality of the products is maintained throughout the production process. This system is based on the ISO 9001: 2008 standard.
 2. O-Leading quality control is a quality control system that is used to ensure that the quality of the products is maintained throughout the production process. This system is based on the AOI (Automated Optical Inspection) technology.
 .(Automated Optical Inspection) technology is used to inspect the quality of the products. This technology is used to detect any defects in the products.
 4. O-Leading quality control is a quality control system that is used to ensure that the quality of the products is maintained throughout the production process. This system is based on the AOI (Automated Optical Inspection) technology.
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3. what is O-Leading quality control?

FR4 板料の TG 特性値は Rogers、Arlon、Teflon 等の高品質材料と比較して、
PI の特性値に劣る。

4. 板料の特性値は Gerber 274-X、Cam350、CAD
Protel 99se、PADS、DXP、Eagle。

5. 板料の特性値は AOI、PTH、E/T、