

# Vítejte na O-leaderu

Společnost O-Leading se snaží být vaším partnerem pro řešení na jednom místě v dodavatelském řetězci EMS, včetně návrhu PCB, výroby PCB a montáže PCB (PCBA). Poskytujeme některé z nejpokročilejších technologií PCB, včetně HDI PCB, vícevrstvých PCB, pevných PCB . Můžeme podporovat od rychlého otočení prototypu po střední a hromadnou výrobu.

Naši globální zákazníci jsou obecně našimi službami velmi ohromeni: Rychlá odezva, konkurenceschopné ceny a závazek kvality. Poskytování cennějších technických služeb a celkového řešení je cesta vedoucí k O.

Při pohledu do budoucnosti se O-leader soustředí na inovace a vývoj technologie výroby elektroniky jako vždy a vytrvale usiluje o jednorázovou službu PCB a PCBA s cílem poskytovat prvotřídní služby a vytvářet větší hodnotu pro naše zákazníky.

KLIKNUTÍM NA TÉTO INFORMACE [PCB s kontrolou imedance](#)

## Popis výrobku

Vrstvy: 2

Materiál: FR4

Konečná tloušťka: 1,57 mm +/- 10%

Tloušťka mědi vnější vrstvy: 1oz

Dokončit: ENIG (Au: 2-5u ")

Soldermask (barva): Both Sides, LPI (Black)

Sítotisk (barva): obě strany, bílá

### Elektrická zkouška

DOKONČENÍ: TATO PŘEDSTAVENSTVA SE ZÍSKÁ ZLATÁ PODLE IPC-6012.

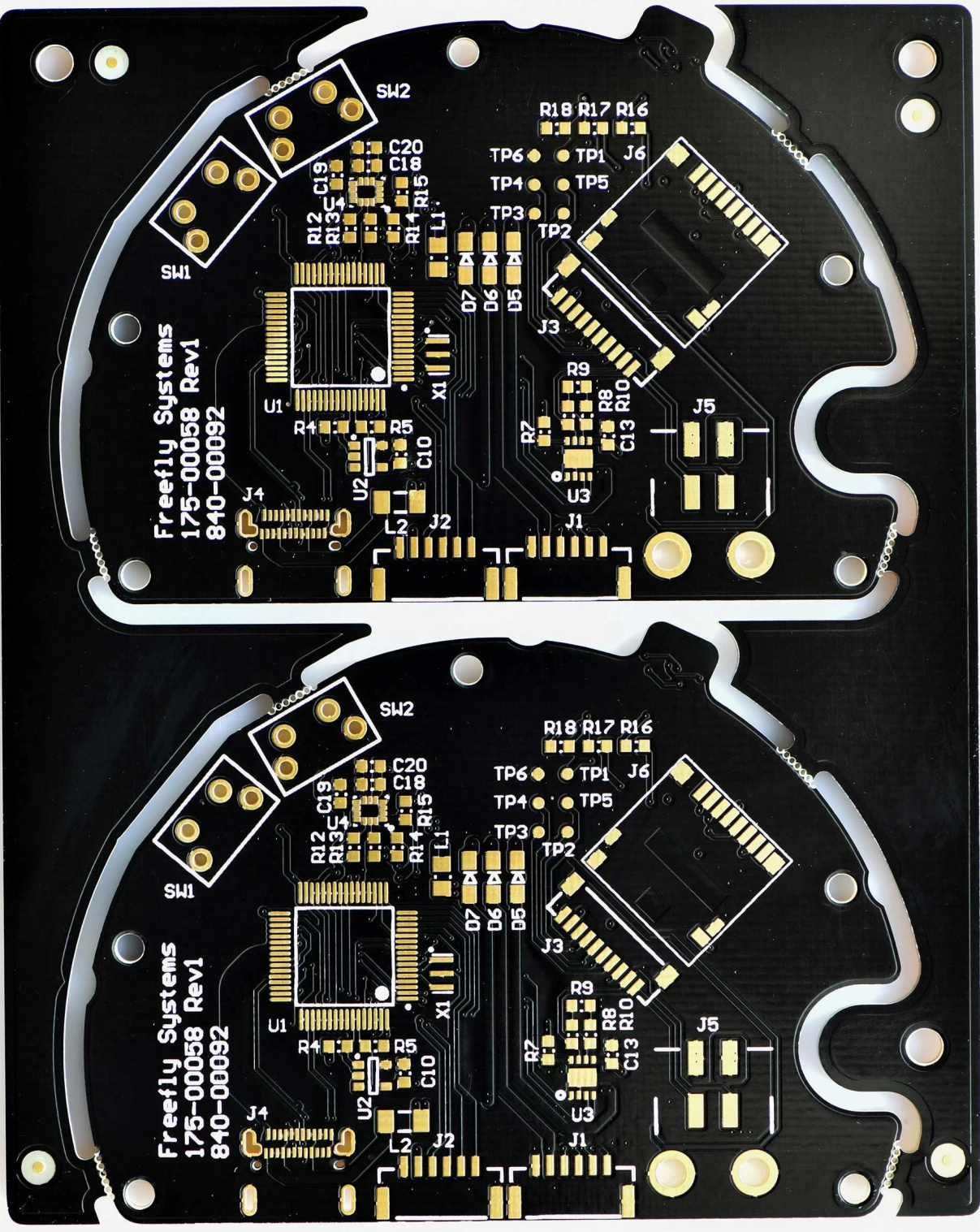
Tloušťka BY Měla být 0,50 µM NADEL 3-6 µM.

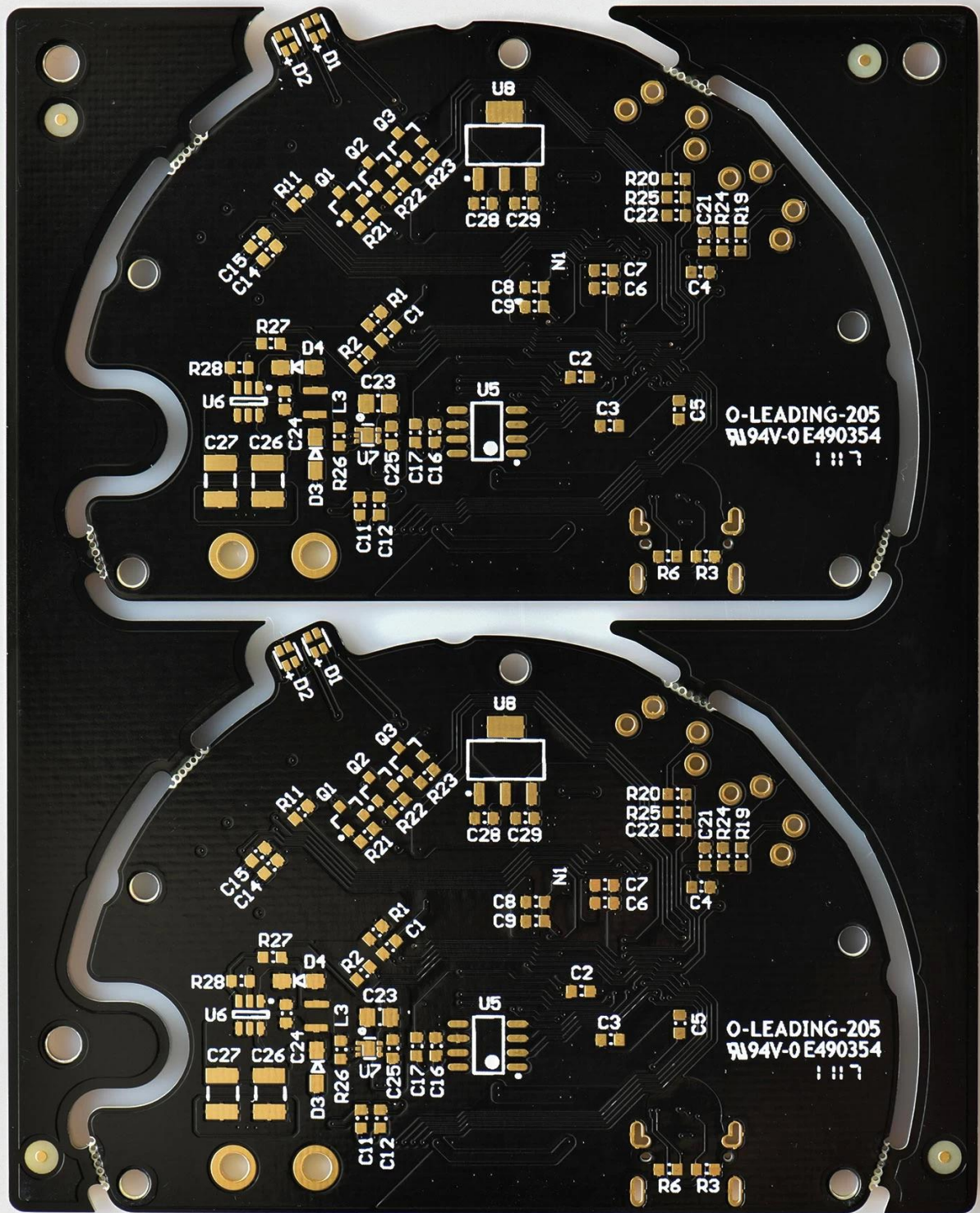
MINERÁLNÍ DÁVKA VRTU DO MINERU 0,25 AVG, 0,20 MIN .. DÁVKY NESMÍ BÝT NAPLNĚNĚNĚ, OKREM VIAS. 500 DOKONČENÍ NEBO SMALLERU.

### Klíč vrstvy:

=====

- \* .GM4: Nástin osnovy
- \* .TXT: NC soubor vrtáku
- \* .GTP: Nejlépe vložit
- \* .GTO: Nejlépe sítotisk
- \* .GTS: Nejlépe Soldermask
- \* .GTL: Horní měděná vrstva
- \* .GBL: Spodní měděná vrstva
- \* .GBS: Spodní maska
- \* .GBO: Spodní sítotisk
- \* .GBP: Dolní vložka





## Náš tým



## 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



# Certifikace





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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**SGS** China, No. 4, Jiaxing Industrial Park, No. 40, Zhou Road, Suzhou, Jiangsu District, Shanghai, China. 518129 | (86-755) 26328888 | (86-755) 83106190 | [www.sgsgroup.com](http://www.sgsgroup.com) or  
in email: [CN.Donghua@sgs.com](mailto:CN.Donghua@sgs.com)

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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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or email: [CN.Docs@techdata.com](mailto:CN.Docs@techdata.com)  
SGS Bldg. No. 1, Jiefang Road, Phase 1, Hua-Ping District, Longgang District, Shenzhen, China 518129 t (86-755) 25328866 f (86-755) 83106190 www.sgsgroup.com.cn  
中国·深圳·龙岗区平湖街道金田一路1号SGS大厦 邮编: 518129 t (86-755) 25328866 f (86-755) 83106190  
e: [sgs.china@sgs.com](mailto:sgs.china@sgs.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<br>Thk<br>mic(mil) | SS/<br>DS/<br>DSO | Max        | Max    |      |       |       |     |   |
|---------------------------------------------------|---------------|---------------|-------------------------|-------------------|------------|--------|------|-------|-------|-----|---|
|                                                   | Min           | Min           |                         |                   | Area       | Solder | Oper | Meets | C     |     |   |
|                                                   | Edge          | Thk           |                         |                   | Diam       | Limits | Temp | Flame | UL796 | T   |   |
| mm(in)                                            | mm(in)        |               |                         | 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)<br>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

|                      |              |              |           |    |            |     |   |     |     |     |   |
|----------------------|--------------|--------------|-----------|----|------------|-----|---|-----|-----|-----|---|
| <b>O-LEADING-S02</b> | 0.2 (0.008)  | 0.2 (0.008)  | 17 (0.67) | SS | 25.4 (1.0) | 260 | 4 | 130 | HB  | ▲   | * |
| <b>O-LEADING-S03</b> | 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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## 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                |

## Schopnost procesu

### Schopnosti výroby PCB

Počet vrstev: 1Layer-32Layer

Konečná tloušťka mědi □ 1 / 3oz-12oz

Min Šířka / mezera interní internal 3,0 mil / 3,0 mil

Min Šířka / rozteč linek externí: 4,0 mil / 4,0 mil

Maximální poměr stran: 10: 1

Tloušťka desky □ 0,2 mm - 5,0 mm

Maximální velikost panelu (palce): 635 x 1500 mm

Minimální velikost vrtané díry: 4 mil

Tolerance plated Hole: +/- 3mil

Blind / Buried Vias (typy AII): ANO

Prostřednictvím výplně (vodivé, nevodivé): ANO

Základní materiál: FR-4, FR-4high Tg.Halogenový materiál, Rogers, Hliníková základna,Polyimid,

Těžká měď

Povrchové úpravy: HASL, OSP, ENIG, HAL-LF, Immersion silver,Immersion Cín, Zlaté prsty, Uhlíkový inkoust

### Výrobní schopnosti SMT

Materiál DPS: FR-4, CEM-1, CEM-3, deska na bázi hliníku

Maximální velikost DPS: 510 x 460 mm

Minimální velikost DPS □ 50x50 mm

Tloušťka DPS □ 0,5 mm - 4,5 mm

Tloušťka desky □ 0,5-4 mm

Minimální velikost komponent: 0201

Standardní součást velikosti čipu: 0603 a větší

Maximální výška komponenty □ 15 mm

Min. Stoupání olova: 0,3 mm

Min. Rozteč kuliček BGA: 0,4 mm

Přesnost umístění: +/- 0,03 mm