

# Willkommen bei O-Leading

O-Leading ist bestrebt, Ihr One-Stop-Lösungspartner in der EMS-Lieferkette zu sein, einschließlich Leiterplattendesign, Leiterplattenherstellung und Leiterplattenbestückung (PCB Assembly, PCBA) Wir können vom schnellen Drehungsprototyp zur mittleren u. Massenproduktion stützen.

Im Allgemeinen sind unsere globalen Kunden von unseren Dienstleistungen sehr beeindruckt: Schnelle Reaktion, wettbewerbsfähiger Preis und Qualitätsverpflichtung. Die Bereitstellung von mehr wertvollem technischen Service und Gesamtlösung ist der Weg, der O nach vorne weist.

Mit Blick auf die Zukunft wird sich O-Lead wie immer auf die Innovation und Entwicklung der Technologie für die Elektronikfertigung konzentrieren und beharrliche Anstrengungen unternehmen, um erstklassige Dienstleistungen aus einer Hand für PCB und PCBA zu erbringen und mehr Wert für unsere Kunden zu schaffen.

BITTE KLICKEN SIE HIER FÜR WEITERE INFORMATIONEN: [Platine mit Impedanzkontrolle](#)

## Produktbeschreibung

Schichten: 2  
Material: FR4  
Fertige Dicke: 1,57 mm +/- 10%  
Kupferschichtdicke: 1oz  
Finish: ENIG (Au: 2-5u ")  
Soldermask (Farbe): Beide Seiten, LPI (Schwarz)  
Siebdruck (Farbe): Beidseitig, weiß

### Elektrischer test

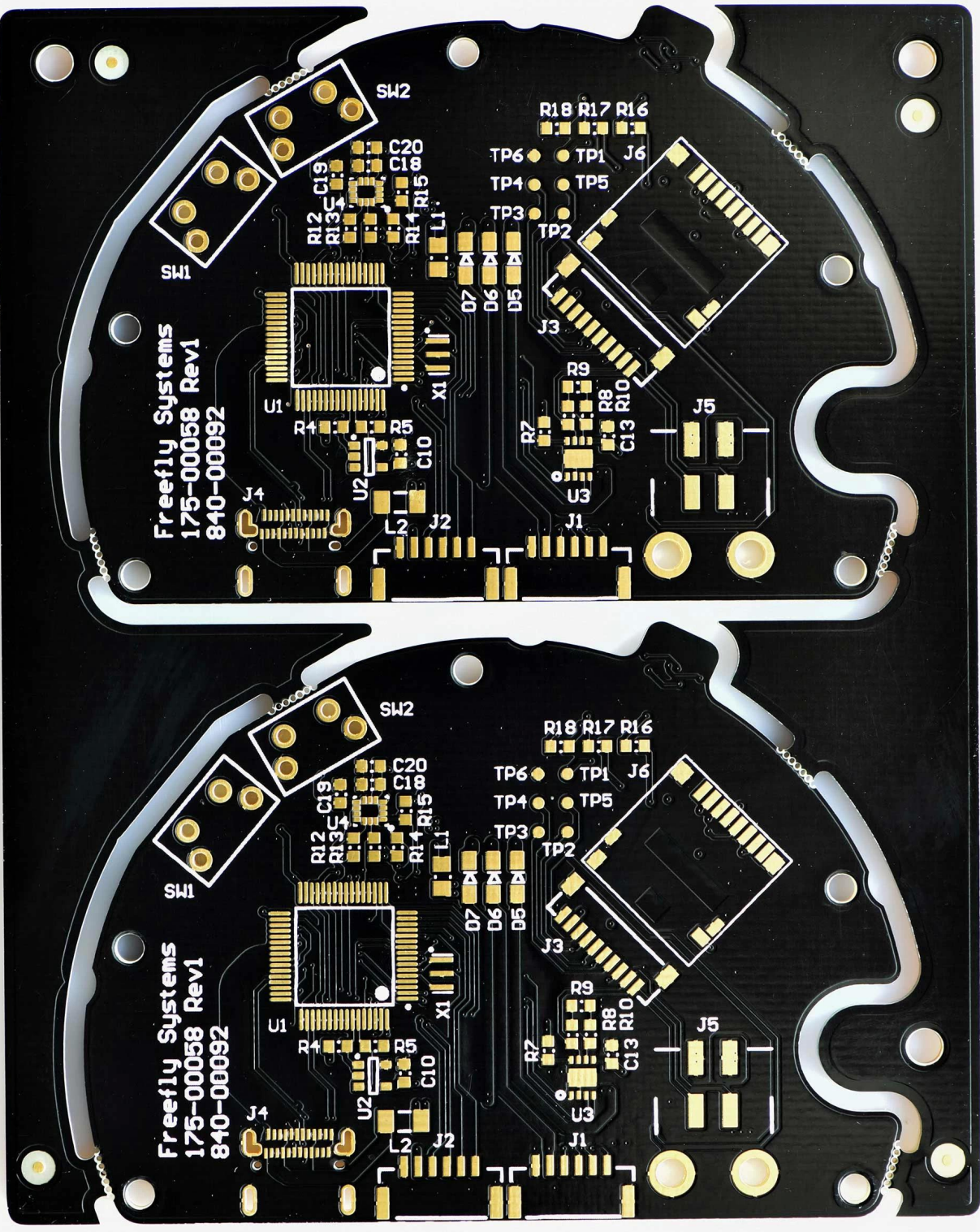
FINISH: DIESES BOARD IST NACH IPC-6012 IMMERSION VERGOLDET.  
Die Dicke beträgt 0,050 um über 3 bis 6 um Nickel.

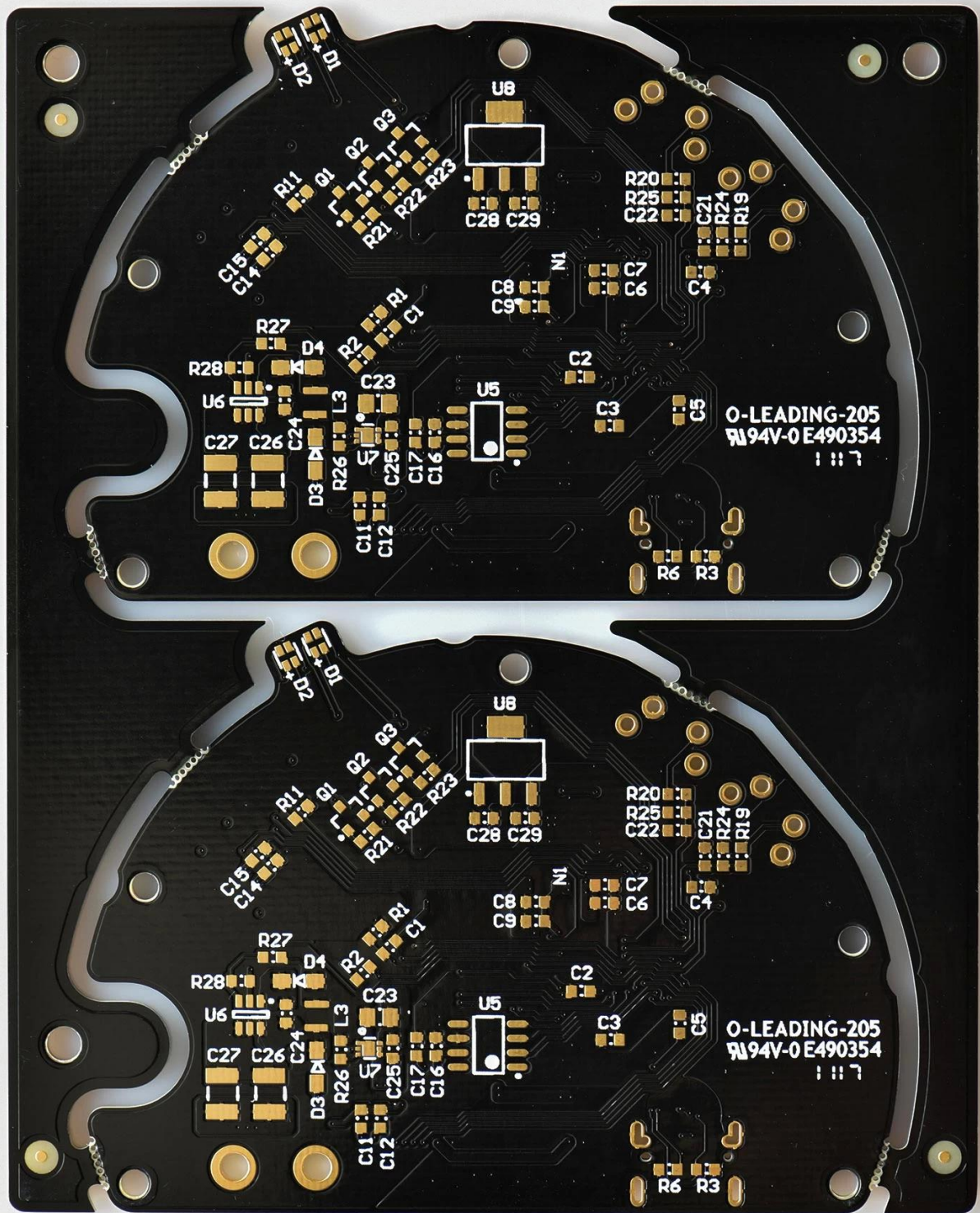
KUPFERPLATTENLÖCHER MINDESTENS .025 AVG, .020 MIN .. LÖCHER DÜRFEN NICHT GESTOPFT WERDEN, MIT AUSNAHME VON VIAS .500 FINISH ODER KLEINER.

### Ebenenschlüssel:

=====

- \* .GM4: Board Outline
- \* .TXT: NC-Bohrdatei
- \* .GTP: Top Paste
- \* .GTO: Top-Siebdruck
- \* .GTS: Top Soldermask
- \* .GTL: Obere Kupferschicht
- \* .GBL: untere Kupferschicht
- \* .GBS: Bottom Soldermask
- \* .GBO: Unterer Siebdruck
- \* .GBP: Bottom Paste





## Unser Team



## 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



# Zertifizierungen





## Test Report

No. SZXEC1900530401

Date: 30 Mar 2019

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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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## Test Report

No. SZXEC1900530401

Date: 30 Mar 2019

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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, 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  |



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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  |       | Meets<br>UL796<br>Class | C<br>T<br>DSR | C<br>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)<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                |

## Prozessfähigkeit

### PCB-Produktionsmöglichkeiten

Schicht Anzahl: 1Layer-32Layer

Fertige Kupferdicke: 1 / 3oz-12oz

Min. Linienbreite / interner Abstand: 3,0 mil / 3,0 mil

Min. Linienbreite / Abstand extern: 4.0mil / 4.0mil

Maximales Seitenverhältnis: 10: 1

Brettstärke: 0.2mm-5.0mm

Max Panel Größe (Zoll): 635 \* 1500 mm

Mindestbohrlochgröße: 4mil

Plated Hole Tolerance: +/- 3mil

Blind / Buried Vias (All-Typen): JA

Via Fill (leitend, nicht leitend): JA

Basismaterial: FR-4, FR-4high Tg. Halogenfreies Material, Rogers, Aluminiumbasis,Polyimid,

Schweres Kupfer

Oberflächen: HASL, OSP, ENIG, HAL-LF, Versilberung,Immersiondose, Goldfinger, Carbon-Tinte

### SMT-Produktionsmöglichkeiten

Leiterplattenmaterial: FR-4, CEM-1, CEM-3, Leiterplatte auf Aluminiumbasis

Maximale Leiterplattengröße: 510 x 460 mm

Min PCB Größe: 50x50mm

PWB-Stärke: 0.5mm-4.5mm

Brettstärke: 0.5-4mm

Min. Komponentengröße: 0201

Komponente mit Standardchipgröße: 0603 und größer

Maximale Höhe der Komponente: 15 mm

Min. Steigung: 0,3 mm

Min. BGA-Kugelpitch: 0,4 mm

Platzierungsgenauigkeit: +/- 0,03 mm