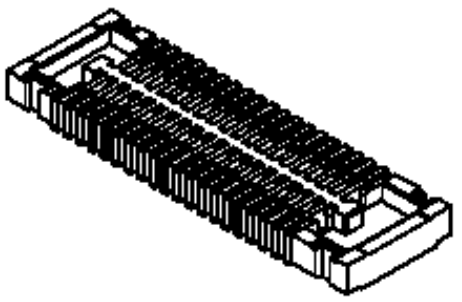
This document was generated on 05/24/2010

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** 5015911011
**Status:** Active
**Overview:** slimstack_mm016_pitch
**Description:** 0.40mm (.016") Pitch SlimStack™ Board-to-Board Receptacle, SMT, Dual Row, Vertical Stacking, 0.90mm (.035") Stacking Height, With Solder Tabs, 10 Circuits



*Series image - Reference only*

**Documents:**

3D Model
Drawing (PDF)
Product Specification PS-501591-002 (PDF)
Product Specification PS-501591-003 (PDF)
RoHS Certificate of Compliance (PDF)

## General

| | |
|---|---|
| Product Family | PCB Receptacles |
| Series | 501591 |
| Application | Board-to-Board |
| Overview | slimstack_mm016_pitch |
| Product Name | SlimStack™ |

## Physical

| | |
|---|---|
| Circuits (Loaded) | 10 |
| Color - Resin | Black |
| Durability (mating cycles max) | 20 |
| Glow-Wire Compliant | No |
| Lock to Mating Part | Yes |
| Mated Height (in) | 0.035 In |
| Mated Height (mm) | 0.90 mm |
| Material - Metal | Phosphor Bronze |
| Material - Plating Mating | Gold |
| Number of Rows | 2 |
| Orientation | Vertical |
| PCB Locator | No |
| PCB Retention | Yes |
| Packaging Type | Embossed Tape on Reel |
| Pitch - Mating Interface (in) | 0.016 In |
| Pitch - Mating Interface (mm) | 0.40 mm |
| Polarized to Mating Part | No |
| Polarized to PCB | No |
| Stackable | No |
| Surface Mount Compatible (SMC) | Yes |
| Temperature Range - Operating | -25°C to +85°C |
| Termination Interface: Style | Surface Mount |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 0.3A |
| Voltage - Maximum | 50V AC (RMS)/DC |

## Material Info

## Reference - Drawing Numbers

| | |
|---|---|
| Packaging Specification | SPK-501591-001 |
| Product Specification | PS-501591-002, PS-501591-003, RPS-501591-010, RPS-501591-012, RPS-501591-016, RPS-501591-019, RPS-501591-020 |
| Sales Drawing | SD-501591-005, SD-501591-006 |

**EU RoHS**
**ELV and RoHS Compliant**
**REACH SVHC**
Not Reviewed
**Halogen-Free Status**
**Not Reviewed**

**China RoHS**

**Need more information on product environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

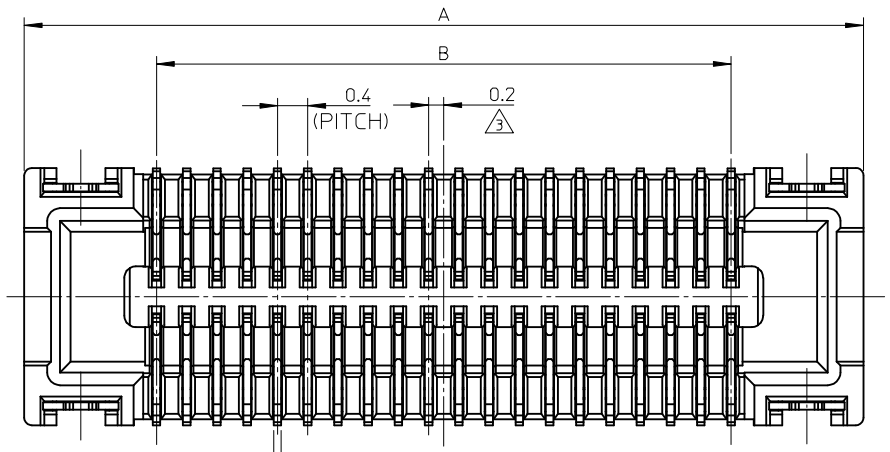
Please visit the Contact Us section for any non-product compliance questions.

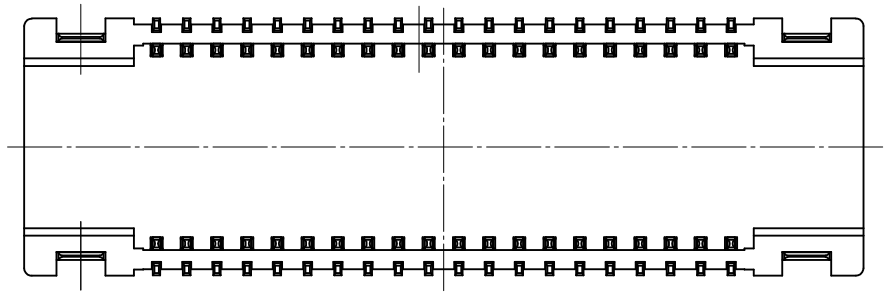
**Search Parts in this Series**
501591Series

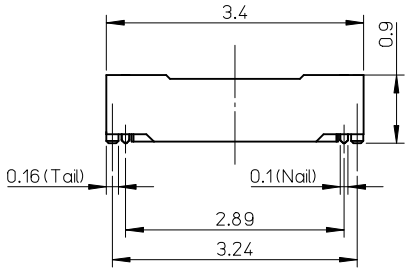
**Mates With**
501594 PCB Header

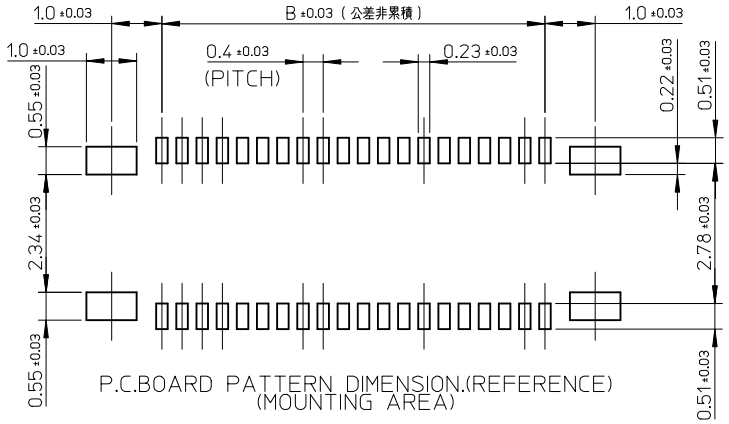
This document was generated on 05/24/2010

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**






P.C.BOARD PATTERN DIMENSION.(REFERENCE)
(MOUNTING AREA)

| | | | | | |
|---|---|---|---|---|---|
| 15.6 | 13.6 | 17.1 | 501591-7011 | 501591-7010 | 70 |
| 12.4 | 10.4 | 13.9 | 501591-5411 | 501591-5410 | 54 |
| 11.6 | 9.6 | 13.1 | 501591-5011 | 501591-5010 | 50 |
| 10.4 | 8.4 | 11.9 | 501591-4411 | 501591-4410 | 44 |
| 9.6 | 7.6 | 11.1 | 501591-4011 | 501591-4010 | 40 |
| 8.4 | 6.4 | 9.9 | 501591-3411 | 501591-3410 | 34 |
| 7.6 | 5.6 | 9.1 | 501591-3011 | 501591-3010 | 30 |
| 6.8 | 4.8 | 8.3 | 501591-2611 | 501591-2610 | 26 |
| 6.4 | 4.4 | 7.9 | 501591-2411 | 501591-2410 | 24 |
| 6.0 | 4.0 | 7.5 | 501591-2211 | 501591-2210 | 22 |
| 5.6 | 3.6 | 7.1 | 501591-2011 | 501591-2010 | 20 |
| 4.0 | 2.0 | 5.5 | 501591-1211 | 501591-1210 | 12 |
| 3.6 | 1.6 | 5.1 | 501591-1011 | 501591-1010 | 10 |
| C | B | A | EMBOSSED TAPE PACKAGE ORDER No. | MATERIAL NO. | CIRCUIT |

REVISED
EC NO: J2008-3370 2008/06/17
DRWN:KSETO 2008/06/17
CH'KD:MSASAO
APPR:MSASAO 2008/06/25
DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | |
|---|---|
| 10 UNDER | ±0.2 |
| 10 OVER 30 UNDER | ±0.25 |
| 30 OVER | ±0.3 |
| ANGULAR | ±3 ° |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: TASAKAWA DATE: 2006/07/10
CHECKED BY: MSASAO DATE: 2006/07/10
APPROVED BY: MSASAO DATE: 2006/07/10

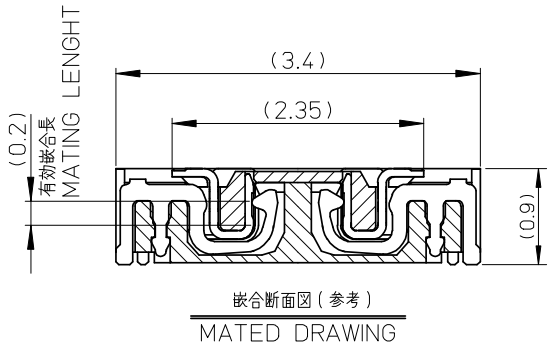
TITLE: 0.4MM PITCH B/B CONN. H=0.9 W=3.4 REC ASSY

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-501591-005
SHEET NO.: 1 OF 2

SIZE A3

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嵌合断面図（参考）
MATED DRAWING

注記 NOTES

1.使用材料
MATERIAL

ハウジング：液晶ポリマー（LCP） ガラス充填 UL-94V-0（黒）
HOSING : LIQUID CRYSTAL POLYMER (GLASS FILLED) UL94V-0 (COLOR:BLACK)

ターミナル：りん青銅（t=0.1）
TERMINAL : PHOSHOR BRONZE (t=0.1)

金具 ：りん青銅（t=0.1）
FITTING NAIL : PHOSHOR BRONZE (t=0.1)

2.メッキ仕様
PLATING

ターミナル
TERMINAL

金メッキ 0.1マイクロメートル以上（コンタクト部）
GOLD 0.1 MICROMETER MINIMUM (CONTACT AERA)

金メッキ 0.05マイクロメートル以上（テール部）
GOLD 0.05 MICROMETER MINIMUM (TAIL AERA)

下地メッキ：ニッケルメッキ 1.0 マイクロメートル以上
UNDER PLATING : NICKEL 1.0 MICROMETER MINIMUM

金具
FITTING NAIL

錫メッキ :1.0マイクロメートル以上
TIN PLATING :1.0 MICROMETER MINIMUM

下地メッキ :ニッケル 1.0マイクロメートル以上
UNDER PLATING :NICKEL 1.0 MICROMETER MINIMUM

△3 (全極数/2)=偶数の場合に適用
APPLY FOR (CIRCUIT/2)=EVEN

4.嵌合相手 ：501594-**10シリーズ
WITH MATE : 501594-**10SERIES

5.テール及び金具の平坦度は、0.1以下
TAIL AND FITTING NAIL COPLANARITY TO BE 0.1 MAXIMUM

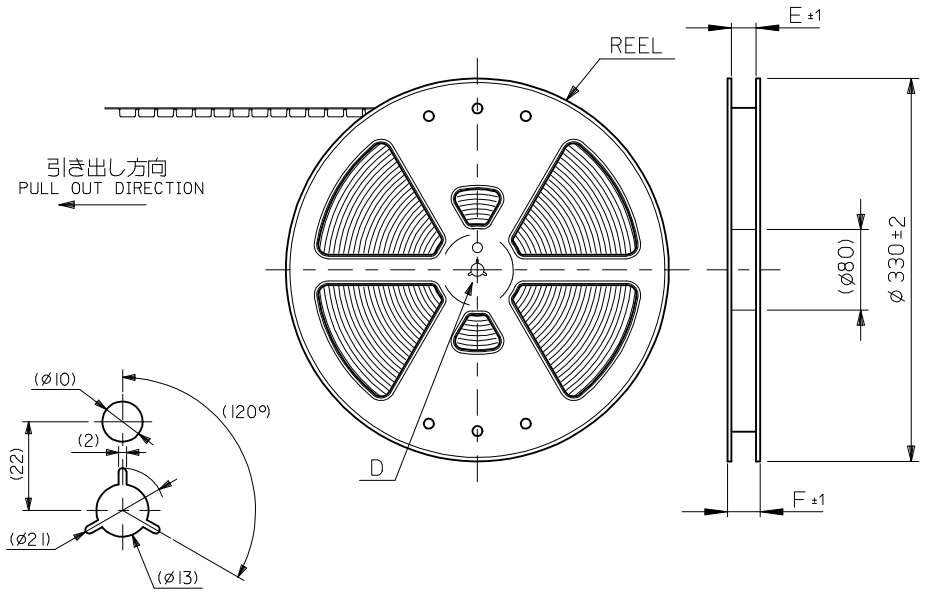
6.ELV AND RoHS COMPLIANT.

| REVISED | | | | | |
|---|---|---|---|---|---|
| EC NO: J2008-3370 | 2008/06/17 | | | | |
| DRWN:KSETO | 2008/06/17 | | | | |
| CH'KD:MSASAO | 2008/06/17 | | | | |
| APPR:MSASAO | 2008/06/25 | | | | |
| DESCRIPTION | | | | | |
| REV | | | | | |

| GENERAL TOLERANCES (UNLESS SPECIFIED) | |
|---|---|
| 10 UNDER | ±0.2 |
| 10 OVER 30 UNDER | ±0.25 |
| 30 OVER | ±0.3 |
| ANGULAR ±3 ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

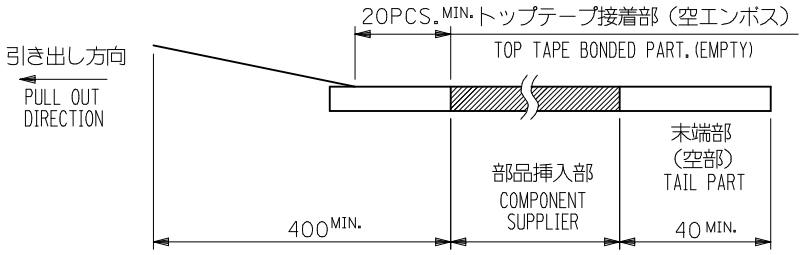
| | | | |
|---|---|---|---|
| DIMENSION STYLE: MM ONLY | SCALE: --- | DESIGN UNITS: METRIC | THIRD ANGLE PROJECTION |
| DRAWN BY: TASAKAWA | DATE: 2006/07/10 | TITLE: 0.4MM PITCH B/B CONN. H=0.9 W=3.4 REC ASSY | |
| CHECKED BY: MSASAO | DATE: 2006/07/10 | | |
| APPROVED BY: MSASAO | DATE: 2006/07/10 | molex MOLEX INCORPORATED | |
| MATERIAL NO.: SEE SHEET 1 | | DOCUMENT NO.: SD-501591-005 | SHEET NO.: 2 OF 2 |
| SIZE: A3 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |



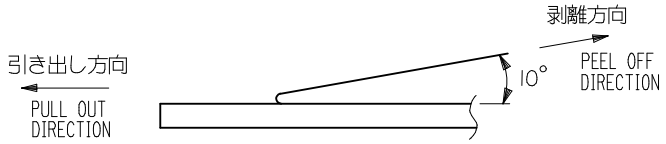

DETAIL D

NOTES

1. 製品詳細寸法については製品単体図面を参照下さい。
   RE DETAILED DIMENSION, SEE PRODUCT DRAWING.
2. 梱包数量： 3000 個／リール
   NUMBER OF CONNECTORS : 3000 PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH




4. トップテープの剥離強度：JES-59 参照
   剥離方向は下図参照.
   PEELING OFF STRENGTH OF TOP TAPE : REFER TO JES-59
   PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE.




5. 材料 MATERIAL
   キャリアテープ (CARRIER TAPE)：ポリスチレン (POLYSTYLENE)
   トップテープ (TOPTAPE)： PET , PE , PEF
   リール (REEL)： ポリスチレン (PS) <リサイクル材を含む>
   POLYSTYLENE (PS) <RECYCLE MATERIAL CONTAINED>

6. ELV AND RoHS COMPLIANT.

| REVISED | | | |
|---|---|---|---|
| EC NO: J2008-3370 | 2008/06/17 | | |
| DRWN:KSETO | 2008/06/17 | | |
| CH'KD:MSASAO | 2008/06/25 | | |
| APPR:MSASAO | | | |

DESCRIPTION

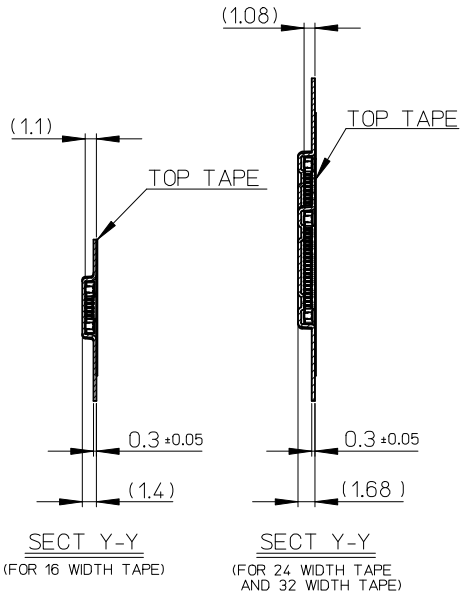
REV E

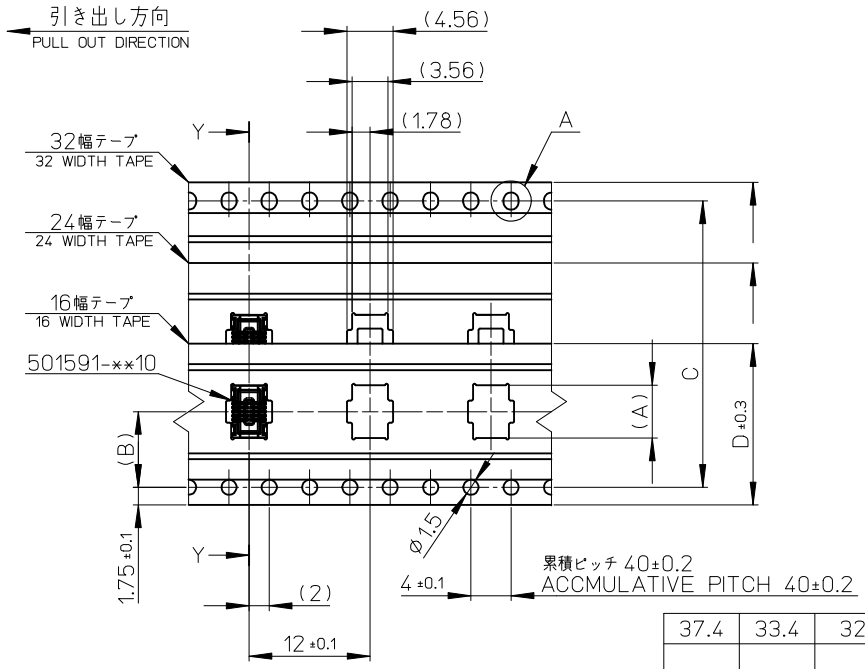
| GENERAL TOLERANCES (UNLESS SPECIFIED) | |
|---|---|
| 10 UNDER | ±0.2 |
| 10 OVER 30 UNDER | ±0.25 |
| 30 OVER | ±0.3 |
| ANGULAR | ±3 ° |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

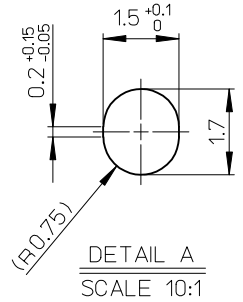
| | | | |
|---|---|---|---|
| DIMENSION STYLE: MM ONLY | SCALE: --- | DESIGN UNITS: METRIC | THIRD ANGLE PROJECTION |
| DRAWN BY: TASAKAWA | DATE: 2006/07/10 | TITLE: 0.4 B-TO-B CONN. REC ASSY (HGT=0.9) EMBSTP PKG | |
| CHECKED BY: MSASAO | DATE: 2006/07/10 | | |
| APPROVED BY: MSASAO | DATE: 2006/07/10 | MOLEX INCORPORATED | |
| MATERIAL NO.: SEE SHEET 1 | | DOCUMENT NO.: SD-501591-006 | SHEET NO.: 1 OF 2 |
| SIZE: A3 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |

501591-**11 | MODEL NO.




エンボステープ内の製品の向き
DIRECTION OF CONNECTOR IN EMBOSSED TAPE




| F | E | D | C | (B) | (A) | MATERIAL No. | 極数 CKT |
|---|---|---|---|---|---|---|---|
| 37.4 | 33.4 | 32 | 28.4 | 14.2 | 17.26 | 501591-7011 | 70 |
| 29.4 | 25.4 | 24 | — | 11.5 | 14.06 | 501591-5411 | 54 |
| | | | | | 13.26 | 501591-5011 | 50 |
| | | | | | 12.06 | 501591-4411 | 44 |
| | | | | | 11.26 | 501591-4011 | 40 |
| | | | | | 10.06 | 501591-3411 | 34 |
| | | | | | 9.26 | 501591-3011 | 30 |
| | | | | | 8.46 | 501591-2611 | 26 |
| | | | | | 8.06 | 501591-2411 | 24 |
| | | | | | 7.66 | 501591-2211 | 22 |
| | | | | | 7.26 | 501591-2011 | 20 |
| 21.4 | 17.4 | 16 | — | 7.5 | 5.66 | 501591-1211 | 12 |
| | | | | | 5.26 | 501591-1011 | 10 |

501591-**11 MODEL No.

REVISED
E EC NO: J2008-3370 2008/06/17
DRWN:KSETO 2008/06/17
CH'KD:MSASAO
APPR:MSASAO 2008/06/25
DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | |
|---|---|
| 10 UNDER | ±0.2 |
| 10 OVER 30 UNDER | ±0.25 |
| 30 OVER | ±0.3 |
| ANGULAR | ±3 ° |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: TASAKAWA DATE: 2006/07/10
CHECKED BY: MSASAO DATE: 2006/07/10
APPROVED BY: MSASAO DATE: 2006/07/10

TITLE: 0.4 B-TO-B CONN. REC ASSY (HGT=0.9) EMBSTP PKG

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-501591-006
SHEET NO.: 2 OF 2
SIZE: A3

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

**Данный компонент на территории Российской Федерации**

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

**Офис по работе с юридическими лицами:**

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

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moschip.ru_9