

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

5015941211

Status:

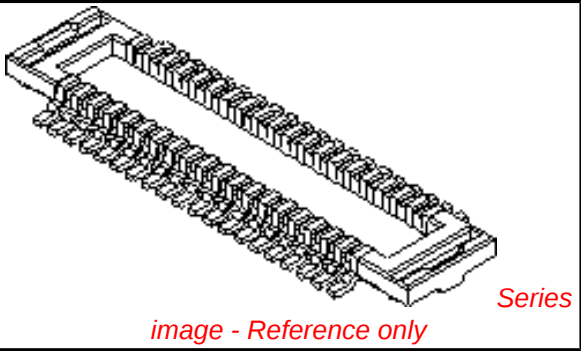
Active

Overview:

slimstack\_mm016\_pitch

Description:

0.40mm (.016") Pitch SlimStack™ Board-to-Board Plug, SMT, Dual Row, Vertical Stacking, 0.90mm (.035") Stacking Height, With Solder Tabs, 12 Circuits



Documents:

3D Model

Drawing (PDF)

Product Specification PS-501591-002 (PDF)

RoHS Certificate of Compliance (PDF)

|                                    |                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>General</b>                     |                                                                                               |
| Product Family                     | PCB Headers                                                                                   |
| Series                             | 501594                                                                                        |
| Application                        | Board-to-Board                                                                                |
| Overview                           | slimstack_mm016_pitch                                                                         |
| Product Name                       | SlimStack™                                                                                    |
| <b>Physical</b>                    |                                                                                               |
| Breakaway                          | No                                                                                            |
| Circuits (Loaded)                  | 12                                                                                            |
| 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                                                                                 |
| <b>Electrical</b>                  |                                                                                               |
| Current - Maximum per Contact      | 0.3A                                                                                          |
| Voltage - Maximum                  | 50V AC (RMS)/DC                                                                               |
| <b>Material Info</b>               |                                                                                               |
| <b>Reference - Drawing Numbers</b> |                                                                                               |
| Packaging Specification            | SPK-501594-001                                                                                |
| Product Specification              | PS-501591-002, RPS-501591-010, RPS-501591-012, RPS-501591-016, RPS-501591-019, RPS-501591-020 |
| Sales Drawing                      | SD-501594-005, SD-501594-006                                                                  |

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](mailto: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.

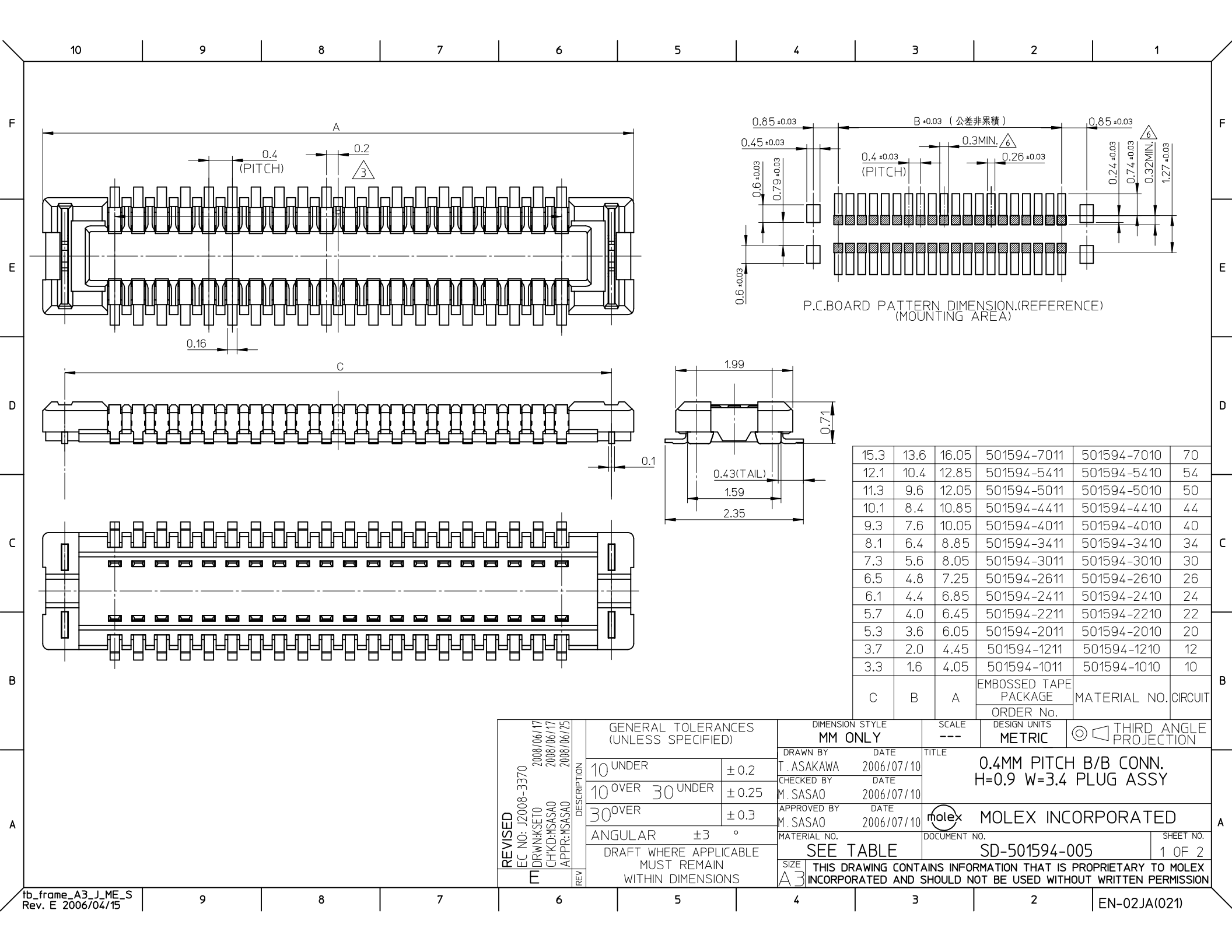
Search Parts in this Series

501594Series

Mates With

501591 SlimStack™ Board-to-Board Receptacle

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|      |      |       |                      |              |         |
|------|------|-------|----------------------|--------------|---------|
| 15.3 | 13.6 | 16.05 | 501594-7011          | 501594-7010  | 70      |
| 12.1 | 10.4 | 12.85 | 501594-5411          | 501594-5410  | 54      |
| 11.3 | 9.6  | 12.05 | 501594-5011          | 501594-5010  | 50      |
| 10.1 | 8.4  | 10.85 | 501594-4411          | 501594-4410  | 44      |
| 9.3  | 7.6  | 10.05 | 501594-4011          | 501594-4010  | 40      |
| 8.1  | 6.4  | 8.85  | 501594-3411          | 501594-3410  | 34      |
| 7.3  | 5.6  | 8.05  | 501594-3011          | 501594-3010  | 30      |
| 6.5  | 4.8  | 7.25  | 501594-2611          | 501594-2610  | 26      |
| 6.1  | 4.4  | 6.85  | 501594-2411          | 501594-2410  | 24      |
| 5.7  | 4.0  | 6.45  | 501594-2211          | 501594-2210  | 22      |
| 5.3  | 3.6  | 6.05  | 501594-2011          | 501594-2010  | 20      |
| 3.7  | 2.0  | 4.45  | 501594-1211          | 501594-1210  | 12      |
| 3.3  | 1.6  | 4.05  | 501594-1011          | 501594-1010  | 10      |
| C    | B    | A     | EMBOSSD TAPE PACKAGE | MATERIAL NO. | CIRCUIT |
|      |      |       | ORDER No.            |              |         |

|                                                                                                                   |                                                            |                                          |           |                                                                                                                               |                    |                                                         |                        |                           |        |           |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------|------------------------|---------------------------|--------|-----------|
| REVISED<br>EC NO: J2008-3370<br>2008/06/17<br>DRW:KSE10<br>2008/06/17<br>CHKD:MSASAO<br>2008/06/17<br>APPR:MSASAO | DESCRIPTION                                                | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |           | DIMENSION STYLE<br>MM ONLY                                                                                                    |                    | SCALE<br>---                                            | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |        |           |
|                                                                                                                   |                                                            | 10 UNDER                                 | ± 0.2     | DRAWN BY<br>T. ASAKAWA                                                                                                        | DATE<br>2006/07/10 | TITLE<br>0.4MM PITCH B/B CONN.<br>H=0.9 W=3.4 PLUG ASSY |                        |                           |        |           |
|                                                                                                                   |                                                            | 10 OVER 30 UNDER                         | ± 0.25    | CHECKED BY<br>M. SASAO                                                                                                        | DATE<br>2006/07/10 |                                                         |                        |                           |        |           |
|                                                                                                                   |                                                            | 30 OVER                                  | ± 0.3     | APPROVED BY<br>M. SASAO                                                                                                       | DATE<br>2006/07/10 | MOLEX INCORPORATED                                      |                        |                           |        |           |
|                                                                                                                   |                                                            | ANGULAR ±3 °                             |           | MATERIAL NO.                                                                                                                  |                    |                                                         | DOCUMENT NO.           |                           |        | SHEET NO. |
|                                                                                                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE TABLE |                                                                                                                               |                    | SD-501594-005                                           |                        |                           | 1 OF 2 |           |
|                                                                                                                   | REV                                                        |                                          |           | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                         |                        |                           |        |           |

F

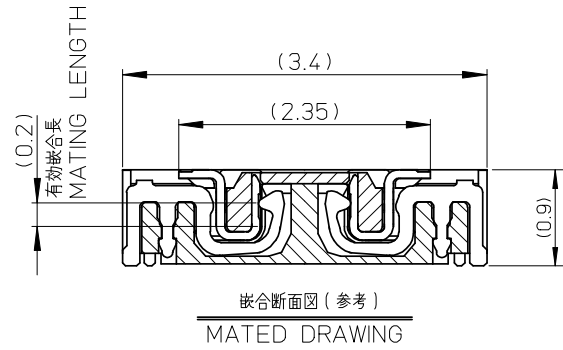
E

D

C

B

A



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 (  $t=0.08$  )  
TERMINAL : PHOSHOR BRONZE (  $t=0.08$  )

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 0.03マイクロメートル以上 ( テール部 )  
GOLD 0.03 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 : 501591-\*\*10シリーズ  
WITH MATE : 501591-\*\*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

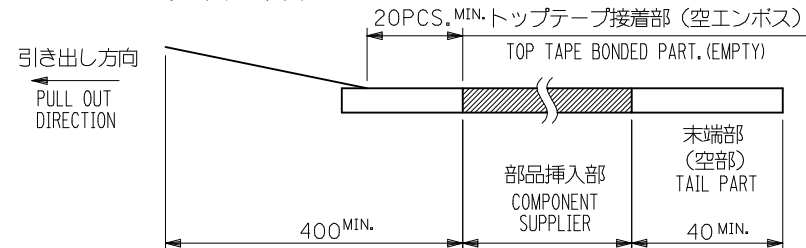
6.斜線部はパターン書き込み禁止範囲と半田禁止範囲を示す。  
ただし、斜線部に同一配線を配置する場合はレジストを施し、この部分に半田は無きこと。  
NO PATTERN CIRCUIT AND NO SOLDER ALLOWED IN THE SHADED AREA.  
HOWEVER, IF NEEDED TO ADD A TRACE OF THE SAME CIRCUIT, PUT THE SOLDER-RESIST,  
YET NO SOLDER ALLOWED IN THE AREA.

7.ELV AND RoHS COMPLIANT.

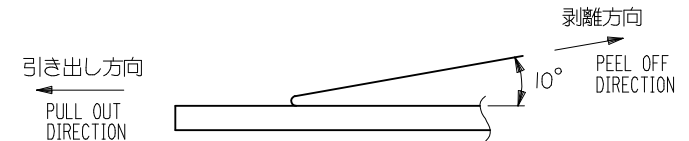
|                                                                                                       |                    |                                                            |        |                            |                                                                                                                                  |                                                         |                        |                           |  |  |
|-------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------|--------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2008-3370<br>DRWN:KSETO 2008/06/17<br>CHKD:MSAO 2008/06/17<br>APPR:MSAO 2008/06/25 | DESCRIPTION<br>REV | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>---                                            | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                       |                    | 10 UNDER                                                   | ± 0.2  | T. ASAKAWA                 | DATE<br>2006/07/10                                                                                                               | TITLE<br>0.4MM PITCH B/B CONN.<br>H=0.9 W=3.4 PLUG ASSY |                        |                           |  |  |
|                                                                                                       |                    | 10 OVER 30 UNDER                                           | ± 0.25 | M. SASAO                   | DATE<br>2006/07/10                                                                                                               |                                                         |                        |                           |  |  |
|                                                                                                       |                    | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>M. SASAO    | DATE<br>2006/07/10                                                                                                               | MOLEX MOLEX INCORPORATED                                |                        |                           |  |  |
|                                                                                                       |                    | ANGULAR ± 3 °                                              |        | MATERIAL NO.               |                                                                                                                                  | DOCUMENT NO.                                            |                        | SHEET NO.                 |  |  |
|                                                                                                       |                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE SHEET 1                |                                                                                                                                  | SD-501594-005                                           |                        | 2 OF 2                    |  |  |
|                                                                                                       |                    |                                                            |        | SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                         |                        |                           |  |  |

# NOTES

- 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.
- 梱包数量 : 3000 個/リール  
NUMBER OF CONNECTORS : 3000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- 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.



- 材料 MATERIAL  
キャリアテープ (CARRIER TAPE) : ポリスチレン (POLYSTYRENE)  
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>  
POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>

6.ELV AND RoHS COMPLIANT.

|                                                                                                                    |                                                            |                                          |            |                             |                                                                                                                                  |                                                                                           |                                                                                       |                                                                                       |                           |  |  |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------|--|--|
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|                                                                                                                    |                                                            | 10 UNDER                                 | ± 0.2      | DRAWN BY<br>TASAKAWA        | DATE<br>2006/07/10                                                                                                               | TITLE<br>0.4MM PITCH B/B CONN.<br>PLUG ASSY (HGT=0.9)<br>EMBSTP PKG<br>MOLEX INCORPORATED |  | DOCUMENT NO.<br>SD-501594-006                                                         | SHEET NO.<br>1 OF 2       |  |  |
|                                                                                                                    |                                                            | 10 OVER 30 UNDER                         | ± 0.25     | CHECKED BY<br>MSASAO        | DATE<br>2006/07/10                                                                                                               |                                                                                           |                                                                                       |                                                                                       |                           |  |  |
|                                                                                                                    |                                                            | 30 OVER                                  | ± 0.3      | APPROVED BY<br>MSASAO       | DATE<br>2006/07/10                                                                                                               |                                                                                           |                                                                                       |                                                                                       |                           |  |  |
|                                                                                                                    |                                                            | ANGULAR ±3 °                             |            | MATERIAL NO.<br>SEE SHEET 1 |                                                                                                                                  |                                                                                           |                                                                                       |                                                                                       |                           |  |  |
|                                                                                                                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SIZE<br>A3 |                             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                           |                                                                                       |                                                                                       |                           |  |  |



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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

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

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