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**Part Number:** [0541020404](#)  
**Status:** **Active**  
**Description:** 0.50mm (.020") Pitch SlimStack™ Receptacle, Surface Mount, Dual Row, Vertical, 2.50mm (.098") Stacking Height, Gold Plating with Nickel Barrier, 40 Circuits

**Documents:**  
[3D Model](#)  
[Drawing \(PDF\)](#)  
[Product Specification PS-54102-011 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

| General                        |                       |
|--------------------------------|-----------------------|
| Product Family                 | PCB Receptacles       |
| Series                         | <a href="#">54102</a> |
| Application                    | Board-to-Board        |
| Product Name                   | SlimStack™            |
| Physical                       |                       |
| Circuits (Loaded)              | 40                    |
| Color - Resin                  | Black                 |
| Durability (mating cycles max) | 30                    |
| Glow-Wire Compliant            | No                    |
| Lock to Mating Part            | Yes                   |
| Mated Height (in)              | 0.098 In              |
| Mated Height (mm)              | 2.50 mm               |
| Material - Metal               | Phosphor Bronze       |
| Material - Plating Mating      | Gold                  |
| Material - Plating Termination | Gold                  |
| Number of Rows                 | 2                     |
| Orientation                    | Vertical              |
| PCB Locator                    | No                    |
| PCB Retention                  | None                  |
| Packaging Type                 | Embossed Tape on Reel |
| Pitch - Mating Interface (in)  | 0.020 In              |
| Pitch - Mating Interface (mm)  | 0.50 mm               |
| Polarized to Mating Part       | No                    |
| Polarized to PCB               | No                    |
| Stackable                      | No                    |
| Temperature Range - Operating  | -40°C to +85°C        |
| Termination Interface: Style   | Surface Mount         |

| Electrical                    |      |
|-------------------------------|------|
| Current - Maximum per Contact | 0.5A |
| Voltage - Maximum             | 50V  |

**Material Info**

| Reference - Drawing Numbers |                                            |
|-----------------------------|--------------------------------------------|
| Packaging Specification     | SPK-54102-001                              |
| Product Specification       | PS-54102-011, RPS-54102-013, RPS-54102-015 |
| Sales Drawing               | SD-54102-006, SD-54102-007                 |

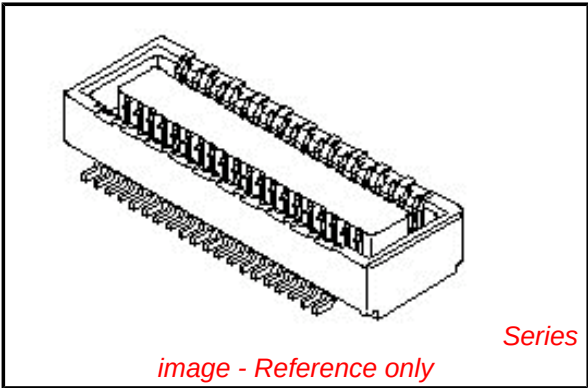


image - Reference only

Series

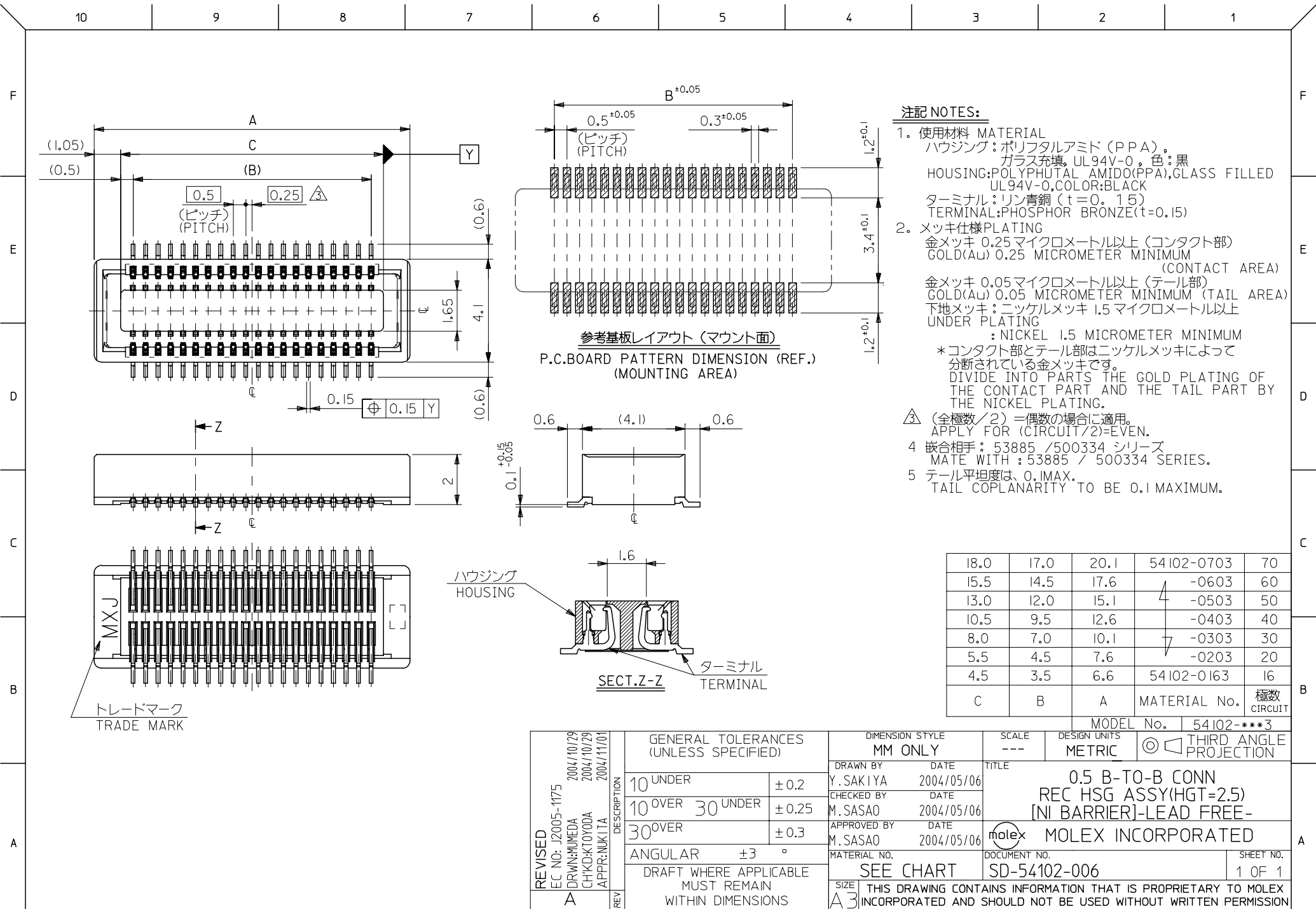
**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Not Reviewed**



**Need more information on product environmental compliance?**  
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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**  
[54102Series](#)

**Mates With**  
[53885 PCB Header](#)



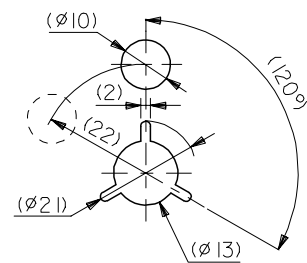
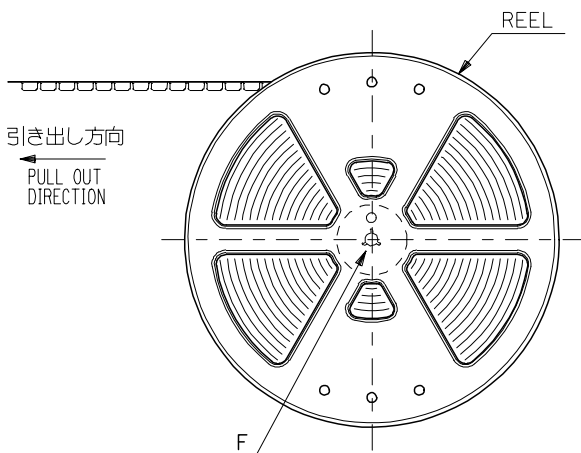
注記 NOTES:

1. 使用材料 MATERIAL  
ハウジング: ポリフタルアミド (P.P.A).  
ガラス充填, UL94V-0, 色: 黒  
HOUSING: POLYPHTHALAMIDE (PPA), GLASS FILLED  
UL94V-0, COLOR: BLACK  
ターミナル: リン青銅 (t=0.15)  
TERMINAL: PHOSPHOR BRONZE (t=0.15)
2. メッキ仕様 PLATING  
金メッキ 0.25 マイクロメートル以上 (コンタクト部)  
GOLD(AU) 0.25 MICROMETER MINIMUM (CONTACT AREA)  
金メッキ 0.05 マイクロメートル以上 (テール部)  
GOLD(AU) 0.05 MICROMETER MINIMUM (TAIL AREA)  
下地メッキ: ニッケルメッキ 1.5 マイクロメートル以上  
UNDER PLATING  
: NICKEL 1.5 MICROMETER MINIMUM  
\*コンタクト部とテール部はニッケルメッキによって  
分断されている金メッキです。  
DIVIDE INTO PARTS THE GOLD PLATING OF  
THE CONTACT PART AND THE TAIL PART BY  
THE NICKEL PLATING.
- △ (全極数/2) = 偶数の場合に適用。  
APPLY FOR (CIRCUIT/2)=EVEN.
- 4 嵌合相手: 53885 /500334 シリーズ  
MATE WITH: 53885 / 500334 SERIES.
- 5 テール平坦度は、0.1MAX.  
TAIL COPLANARITY TO BE 0.1 MAXIMUM.

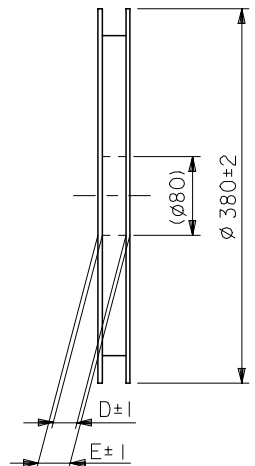
|      |      |      |              |               |
|------|------|------|--------------|---------------|
| 18.0 | 17.0 | 20.1 | 54102-0703   | 70            |
| 15.5 | 14.5 | 17.6 | -0603        | 60            |
| 13.0 | 12.0 | 15.1 | -0503        | 50            |
| 10.5 | 9.5  | 12.6 | -0403        | 40            |
| 8.0  | 7.0  | 10.1 | -0303        | 30            |
| 5.5  | 4.5  | 7.6  | -0203        | 20            |
| 4.5  | 3.5  | 6.6  | 54102-0163   | 16            |
| C    | B    | A    | MATERIAL No. | 極数<br>CIRCUIT |

MODEL No. 54102-\*\*\*3

|                                                                                                                      |             |                                                            |        |                                                                                                                                  |                    |                                                                                                    |                        |                           |  |  |
|----------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2005-1175<br>DRWN:NUMEDA<br>2004/10/29<br>CHKD:KTOYODA<br>2004/10/29<br>APPR:NUKITA<br>2004/11/01 | 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>Y. SAKIYA                                                                                                            | DATE<br>2004/05/06 | TITLE<br>0.5 B-TO-B CONN<br>REC HSG ASSY(HGT=2.5)<br>[NI BARRIER]-LEAD FREE-<br>MOLEX INCORPORATED |                        |                           |  |  |
|                                                                                                                      |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>M. SASAO                                                                                                           | DATE<br>2004/05/06 |                                                                                                    |                        |                           |  |  |
|                                                                                                                      |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>M. SASAO                                                                                                          | DATE<br>2004/05/06 |                                                                                                    |                        |                           |  |  |
|                                                                                                                      |             | ANGULAR ±3 °                                               |        | MATERIAL NO.                                                                                                                     |                    | DOCUMENT NO.                                                                                       |                        | SHEET NO.                 |  |  |
|                                                                                                                      |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE CHART                                                                                                                        |                    | SD-54102-006                                                                                       |                        | 1 OF 1                    |  |  |
|                                                                                                                      |             | SIZE<br>A3                                                 |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                                                                    |                        |                           |  |  |

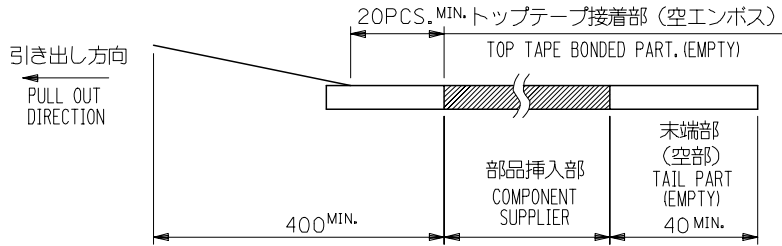


DETAIL F

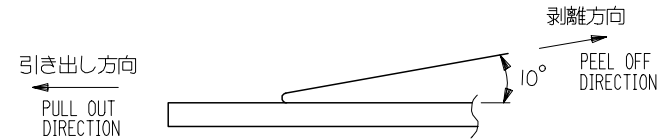


NOTES

- 製品詳細寸法については図面 SD-54102-006 を参照下さい。  
RE DETAILED DIMENSION, SEE SD-54102-006.
- 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

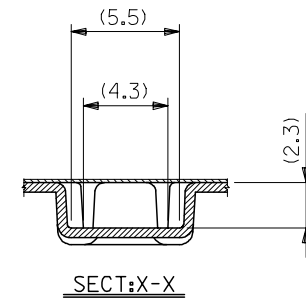


- トップテープの剥離強度：0.1～1.3N {10～130gf}  
(剥離方向は下図参照)  
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)  
PEELING OFF FORCE OF TOP TAPE : 0.1～1.3N {10～130gf}  
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)  
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.  
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.



- 材料(MATERIAL)  
キャリアテープ(CARRIER TAPE)：ポリプロピレン(POLYPROPYLENE)  
トップテープ(TOPTAPE)：PET, PE, PEF  
リール(REEL)：ポリスチレン (P S) <リサイクル材を含む>  
POLYSTYRENE(PS) <RECYCLE MATERIAL CONTAINED>

|                                                                                                             |                                                            |                                          |            |                                                                                                                                  |                    |                                                                                    |              |                           |  |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------|--------------|---------------------------|--|
| REVISED<br>EC NO: J2005-1175<br>DRAWN:MED 2004/10/29<br>CHKD:KTOYODA 2004/10/29<br>APPR:NUK(ITA) 2004/11/01 | DESCRIPTION                                                | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |            | DIMENSION STYLE                                                                                                                  |                    | SCALE                                                                              | DESIGN UNITS | THIRD ANGLE<br>PROJECTION |  |
|                                                                                                             |                                                            |                                          |            | MM ONLY                                                                                                                          |                    | ---                                                                                | METRIC       |                           |  |
|                                                                                                             |                                                            | 10 UNDER                                 | ±0.2       | DRAWN BY<br>Y. SAKIYA                                                                                                            | DATE<br>2004/05/06 | TITLE<br>EMBSTP PKG FOR 0.5 B/B<br>REC HSG ASSY (H=2.5)<br>[NI BARRIER]-LEAD FREE- |              |                           |  |
|                                                                                                             |                                                            | 10 OVER 30 UNDER                         | ±0.25      | CHECKED BY<br>M. SASAO                                                                                                           | DATE<br>2004/05/06 |                                                                                    |              |                           |  |
|                                                                                                             |                                                            | 30 OVER                                  | ±0.3       | APPROVED BY<br>M. SASAO                                                                                                          | DATE<br>2004/05/06 | MOLEX INCORPORATED                                                                 |              |                           |  |
|                                                                                                             |                                                            | ANGULAR ±3 °                             |            | MATERIAL NO.                                                                                                                     |                    |                                                                                    |              | DOCUMENT NO.              |  |
|                                                                                                             | 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 |                    |                                                                                    |              |                           |  |



|                                |      |      |     |              |                |
|--------------------------------|------|------|-----|--------------|----------------|
| I6                             | 21.4 | 17.4 | 7.8 | 54102-0204   | 20             |
|                                |      |      | 6.8 | 54102-0164   | 16             |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | (A) | MATERIAL NO. | 極数<br>CIRCUITS |

tb\_frame\_A3\_J\_ME\_S  
Rev. D 2004/04/02

EN-02JA(021)



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