

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0541323462

Status:

Active

Overview:

ffc\_fpc\_smt

Description:

0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 34 Circuits, 0.1µm (4µ") Gold (Au) Contact Plating

Documents:

3D Model

Drawing (PDF)

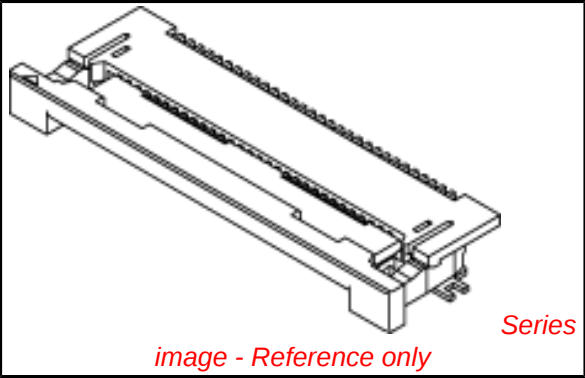
Product Specification PS-54132-061 (PDF)

RoHS Certificate of Compliance (PDF)

|                                |                                |
|--------------------------------|--------------------------------|
| Agency Certification           |                                |
| UL                             | E29179                         |
| General                        |                                |
| Product Family                 | FFC/FPC Connectors             |
| Series                         | 54132                          |
| Overview                       | ffc_fpc_smt                    |
| Product Name                   | N/A                            |
| Physical                       |                                |
| Circuits (Loaded)              | 34                             |
| Color - Resin                  | Black, Natural                 |
| Contact Position               | Bottom                         |
| Durability (mating cycles max) | 20                             |
| Entry Angle                    | 90° Angle                      |
| Flammability                   | 94V-0                          |
| Mated Height (in)              | 0.079 In                       |
| Mated Height (mm)              | 2.00 mm                        |
| Material - Metal               | Phosphor Bronze                |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Gold                           |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 1                              |
| Orientation                    | Right Angle                    |
| PCB Locator                    | No                             |
| PCB Retention                  | Yes                            |
| Packaging Type                 | Embossed Tape on Reel          |
| Pitch - Mating Interface (in)  | 0.020 In                       |
| Pitch - Mating Interface (mm)  | 0.50 mm                        |
| Plating min: Mating (µin)      | 4                              |
| Plating min: Mating (µm)       | 0.1                            |
| Plating min: Termination (µin) | 2                              |
| Plating min: Termination (µm)  | 0.05                           |
| Polarized to PCB               | Yes                            |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | N/A                            |
| Temperature Range - Operating  | -20°C to +85°C                 |
| Termination Interface: Style   | Surface Mount                  |
| Wire/Cable Type                | FFC/FPC                        |
| Electrical                     |                                |
| Current - Maximum per Contact  | 0.5A                           |
| Voltage - Maximum              | 50V                            |

Material Info

Reference - Drawing Numbers



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Halogen-Free

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

54132Series

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**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**

F

E

D

C

B

A

F

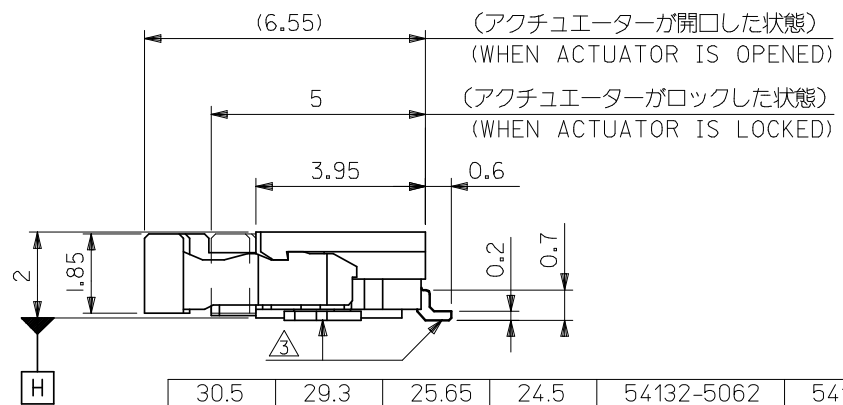
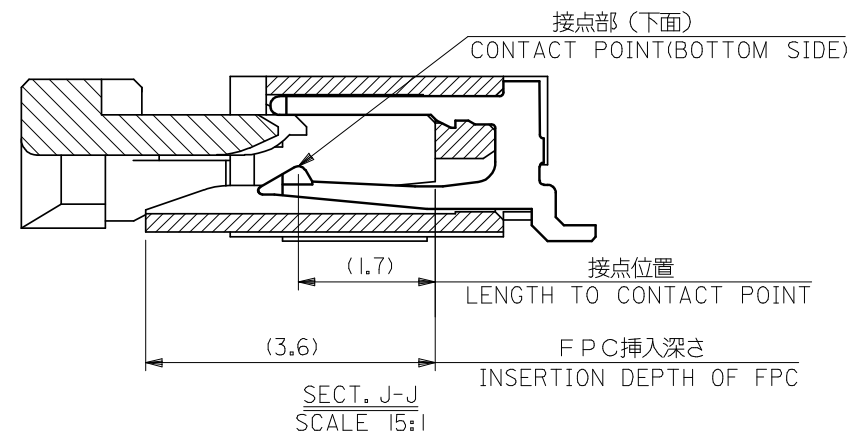
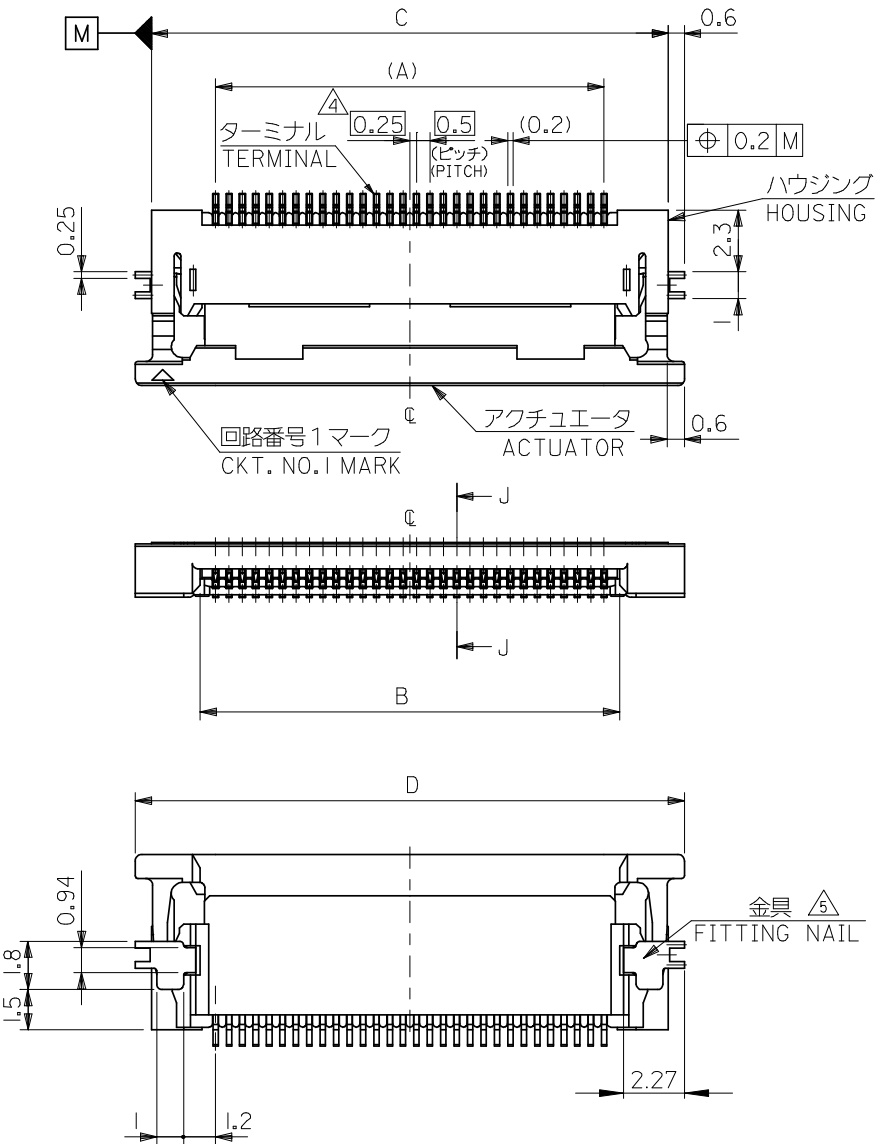
E

D

C

B

A



|      |      |       |      |                                  |            |                    |
|------|------|-------|------|----------------------------------|------------|--------------------|
| 30.5 | 29.3 | 25.65 | 24.5 | 54132-5062                       | 54132-5068 | 50                 |
| 28.0 | 26.8 | 23.15 | 22.0 | 54132-4562                       | 54132-4568 | 45                 |
| 27.0 | 25.8 | 22.15 | 21.0 | 54132-4362                       | 54132-4368 | 43                 |
| 25.5 | 24.3 | 20.65 | 19.5 | 54132-4062                       | 54132-4068 | 40                 |
| 24.5 | 23.3 | 19.65 | 18.5 | 54132-3862                       | 54132-3868 | 38                 |
| 23.5 | 22.3 | 18.65 | 17.5 | 54132-3662                       | 54132-3668 | 36                 |
| 23.0 | 21.8 | 18.15 | 17.0 | 54132-3562                       | 54132-3568 | 35                 |
| 22.5 | 21.3 | 17.65 | 16.5 | 54132-3462                       | 54132-3468 | 34                 |
| 22.0 | 20.8 | 17.15 | 16.0 | 54132-3362                       | 54132-3368 | 33                 |
| 21.5 | 20.3 | 16.65 | 15.5 | 54132-3262                       | 54132-3268 | 32                 |
| 20.5 | 19.3 | 15.65 | 14.5 | 54132-3062                       | 54132-3068 | 30                 |
| D    | C    | B     | A    | EMBOSSED TAPE<br>ORDER No. オート番号 |            | MATERIAL. NO. CKT. |

REVISED  
EC NO: J2008-4308  
DRAWN: WABEI  
CHKD: THARUYAMA  
APPR: NUKITA

DESCRIPTION  
2008/06/27  
2008/06/30  
2008/06/30

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

DRAWN BY DATE  
M. UEDA 2004/09/27  
CHECKED BY DATE  
K. TOYODA 2004/09/27  
APPROVED BY DATE  
N. UKITA 2004/09/27  
MATERIAL NO.  
SEE TABLE

SCALE  
---  
DESIGN UNITS  
METRIC

TITLE  
0.5 FPC CONN. HSG ASSY  
BTM CONTACT GOLD PLATING  
-LEAD FREE-(NI-BARRIER)  
MOLEX INCORPORATED  
SD-54132-064

THIRD ANGLE  
PROJECTION

SHEET NO.  
1 OF 4

F

E

D

C

B

A

F

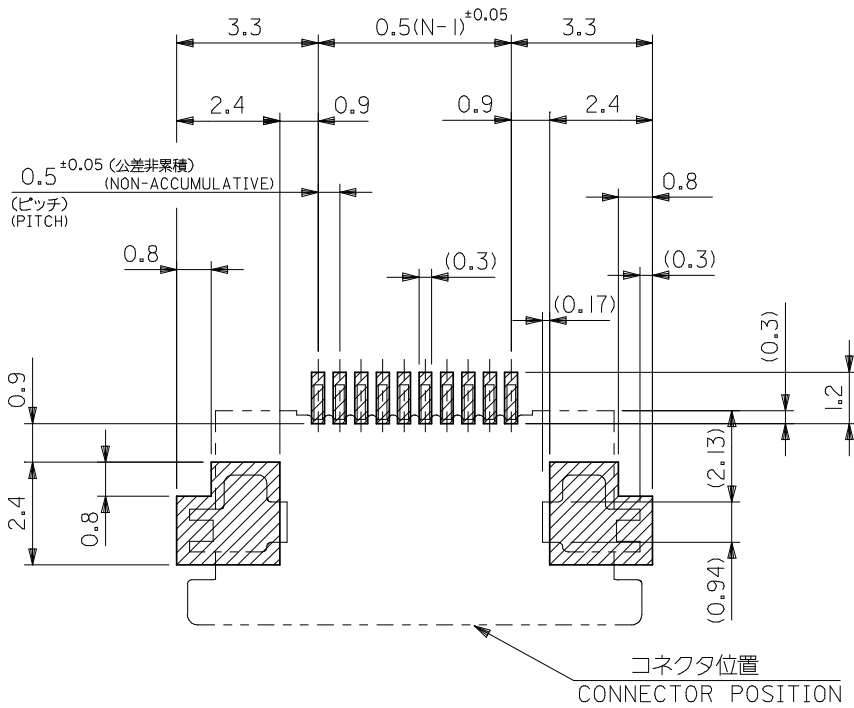
E

D

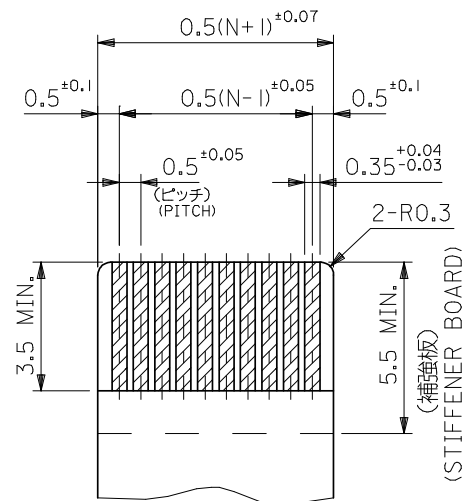
C

B

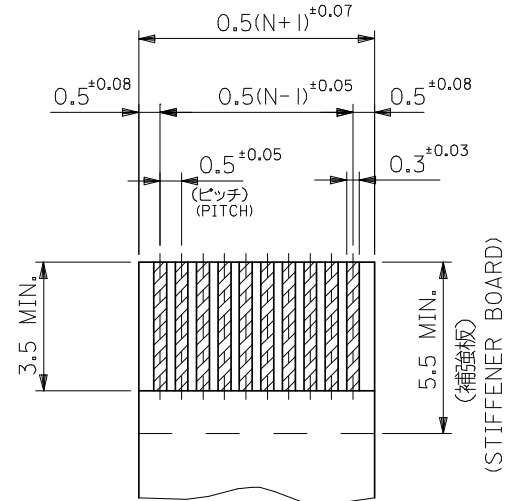
A



参考基板レイアウト  
RECOMMENDED PC BOARD PATTERN DIMENSION(REF.)  
(マウント面)  
(MOUNTING SIDE)



適合FPC推奨寸法  
APPLICABLE FPC RECOMMENDED DIMENSION  
(仕上がり厚さ: 0.3±0.03)  
(THICKNESS: 0.3±0.03)



適合FFC推奨寸法  
APPLICABLE FFC RECOMMENDED DIMENSION  
(仕上がり厚さ: 0.3±0.03)  
(THICKNESS: 0.3±0.03)

注記  
NOTES

1. 使用材料  
MATERIAL  
ハウジング  
HOUSING : 46ナイロン, UL94V-0  
: 46NYLON
- アクチュエーター  
ACTUATOR : PPS, UL94V-0  
: PPS
- ターミナル  
: 金メッキ  
コンタクト部 0.1 MICRO METER MIN.  
テール部 0.05 MICRO METER MIN.  
: ニッケル下地 1.0 MICRO METER MIN.
- TERMINAL : GOLD PLATING  
CONTACT PORTION: 0.1 MICRO METER MIN.  
TAIL PORTION: 0.05 MICRO METER MIN.  
: NI-PLATING: 0.1 MICRO METER MIN.
- 金具 : リン青銅 (t=0.2), 鍍メッキ 1.0~3.0 MICRO METER MIN.  
: ニッケル下地 1.0~3.0 MICRO METER MIN.
- FITTING NAIL : PHOS-BRO, TIN-PLATE 1.0~3.0 MICRO METER MIN.  
OVER NICKEL 1.0~3.0 MICRO METER MIN.

2. エンボステープ梱包時は、アクチュエーターがロックした状態とする。  
IN THE PACKAGE, ACTUATOR OF PART NO.54132-\*\*69 SHOULD BE LOCKED.
3. ソルダータール半田付け面のズレ量、及び金具半田付け面のズレ量は、基準面 [H] に対し上方向 0.1 MAX.、下方向 0.15 MAX. とする。  
MISALIGNMENT OF SOLDER TAILS AND FITTING NAIL FROM [H] UPPER DIRECTION: 0.1 MAX., LOWER DIRECTION: 0.15 MAX.
4. 偶数極に適用  
APPLY FOR EVEN CIRCUIT.
5. パターンはくり止め用金具  
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.
6. 本製品は54132-\*\*61に対するニッケルバリア品である。  
THIS PRODUCT IS Ni-Barrier OF 54132-\*\*61.

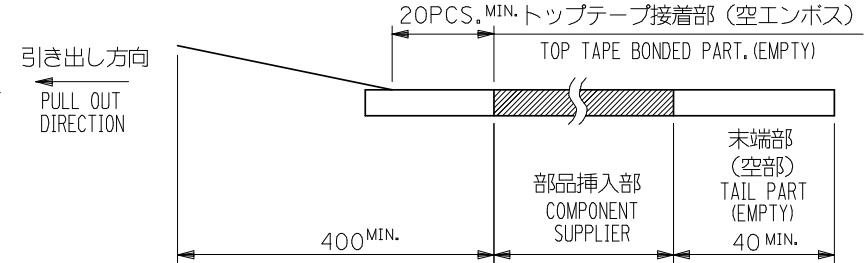
FPC/FFCについて:  
打抜き方向は導体側から補強板側を推奨いたします。  
導体部については軟銅箔35マイクロメートルまたは50マイクロメートル  
RECOMMENDED PUNCHER DIRECTION:  
FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.  
RECOMMENDED CONDUCTOR SPEC.:  
THICKNESS OF SOFT COPPER FOIL : 35 micrometer or 50 micrometer

FPCについて:  
補強フィルム材質はポリイミドを推奨いたします。  
接着剤は熱硬化接着剤を推奨いたします。  
RECOMMENDED MATERIAL:  
STIFFENER FILM : POLYIMIDE  
BONDING AGENT : THERMOSETTING BONDING AGENT

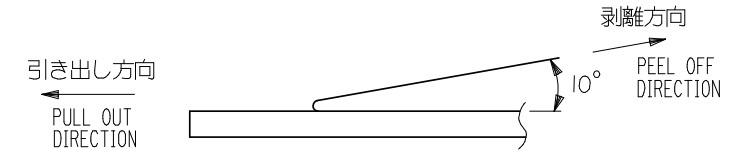
|                                                                              |                                                       |     |                                                            |       |                                                                                                                                  |                    |                                                                                                                                                                                                    |                        |                                                                                                                 |                     |
|------------------------------------------------------------------------------|-------------------------------------------------------|-----|------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------|
| REVISED<br>EC NO: J2008-4308<br>DRAWN:MABEI<br>CHK'D:THARYAWA<br>APPR:NUKITA | DESCRIPTION<br>2008/06/27<br>2008/06/30<br>2008/06/30 | 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  | DRAWN BY<br>M.UMEDA                                                                                                              | DATE<br>2004/09/27 | TITLE<br>0.5 FPC CONN. HSG ASSY<br>BTM CONTACT GOLD PLATING<br>-LEAD FREE-(NI-BARRIER)<br> MOLEX INCORPORATED |                        |                                                                                                                 |                     |
|                                                                              |                                                       |     | 10 OVER 30 UNDER                                           | ±0.25 | CHECKED BY<br>K.TOYODA                                                                                                           | DATE<br>2004/09/27 |                                                                                                                                                                                                    |                        |                                                                                                                 |                     |
|                                                                              |                                                       |     | 30 OVER                                                    | ±0.3  | APPROVED BY<br>N.UKITA                                                                                                           | DATE<br>2004/09/27 |                                                                                                                                                                                                    |                        |                                                                                                                 |                     |
|                                                                              |                                                       |     | ANGULAR ±3 °                                               |       | MATERIAL NO.<br>SEE SHEET 1                                                                                                      |                    | DOCUMENT NO.<br>SD-54132-064                                                                                                                                                                       |                        |                                                                                                                 | SHEET NO.<br>2 OF 4 |
|                                                                              |                                                       |     | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                                                                                                                                                                    |                        |                                                                                                                 |                     |

# NOTES

- 梱包数量：1500個／リール  
NUMBER OF CONNECTORS : 1500PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



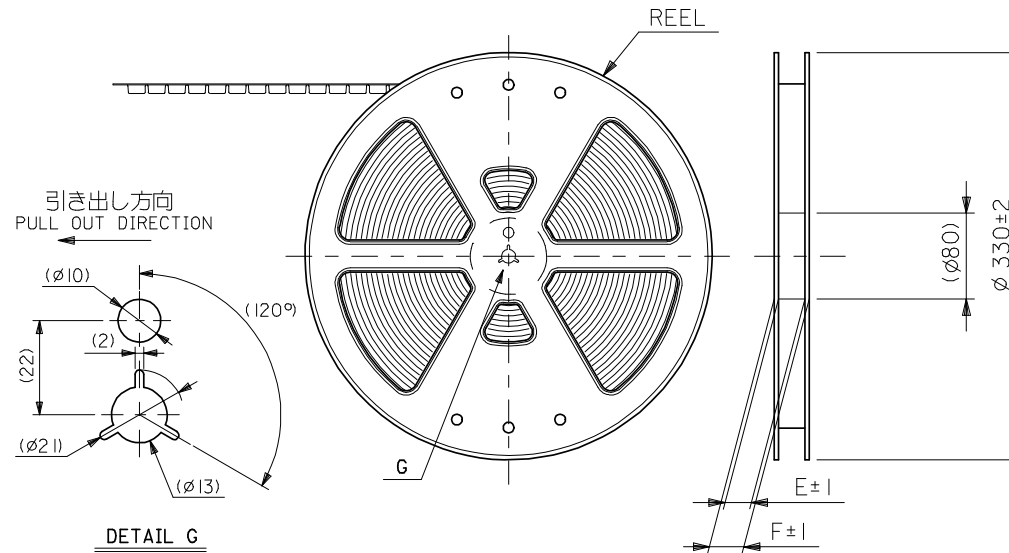
- トップテープの剥離強度：0.1N ～ 1.3N (10gf ～ 130gf)  
(剥離方向は下図参照)  
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)  
PEELING OFF FORCE OF TOP TAPE : 0.1N ～ 1.3N (10gf ～ 130gf)  
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)  
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.  
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.



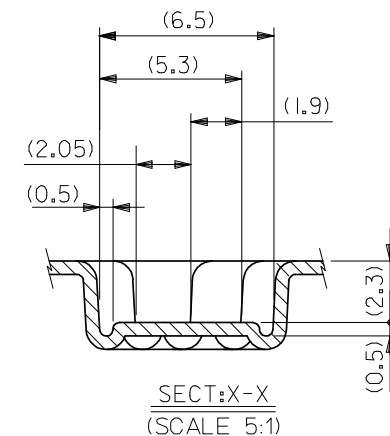
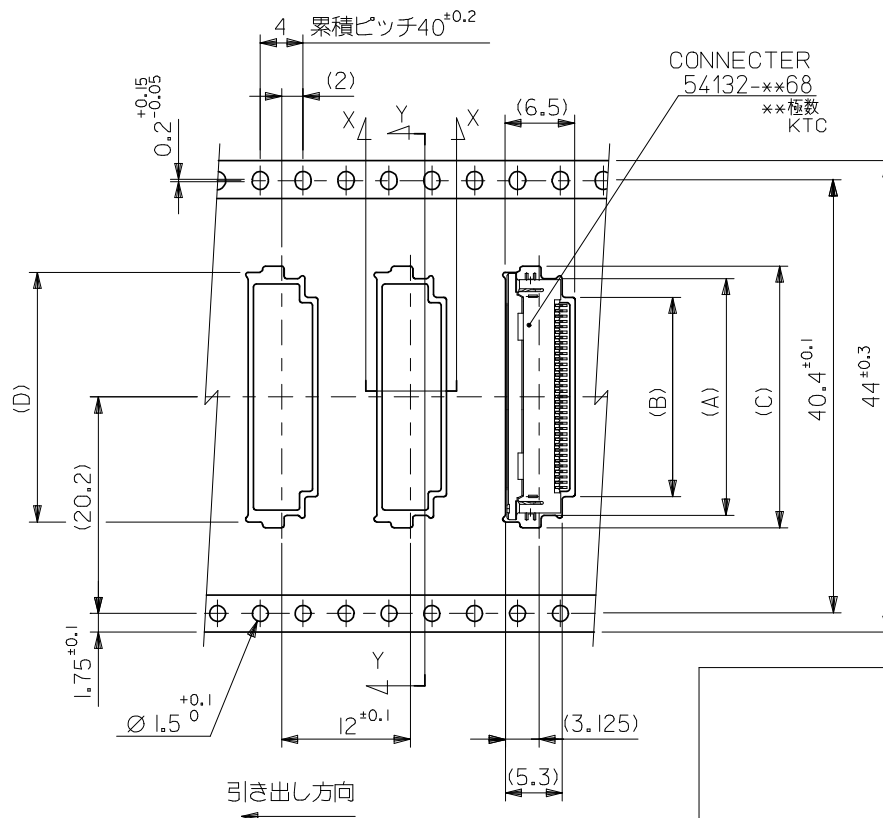
- 材料  
キャリアテープ：ポリプロピレン (PP)  
トップテープ：PET, PE, PEF  
リール：ポリスチレン (PS) <リサイクル材を含む>

MATERIAL CARRIER TAPE: POLYPROPYLENE  
TOP TAPE: PET, PE, PEF  
REEL: POLYSTYREN (PS)  
<RECYCLE MATERIAL CONTAINED>

- 本製品は54132-\*\*61に対するニッケルバリア品である。  
THIS PRODUCT IS Ni-Barrier OF 54132-\*\*61.



|                                                                                                                            |                                                                                                                                  |                                          |         |                            |                    |                                                                                        |                        |                           |  |  |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|----------------------------|--------------------|----------------------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2008-4308<br>2008/06/27<br>DRAWN: MNABEI<br>2008/06/30<br>CHKD: THARUYAMA<br>2008/06/30<br>APPR: NUKITA | DESCRIPTION                                                                                                                      | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |         | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>---                                                                           | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                            |                                                                                                                                  | 10 UNDER                                 | ± ---   | DRAWN BY<br>M. UEDA        | DATE<br>2004/09/27 | TITLE<br>0.5 FPC CONN. HSG ASSY<br>BTM CONTACT GOLD PLATING<br>-LEAD FREE-(NI-BARRIER) |                        |                           |  |  |
|                                                                                                                            |                                                                                                                                  | 10 OVER 30 UNDER                         | ± ---   | CHECKED BY<br>K. TOYODA    | DATE<br>2004/09/27 |                                                                                        |                        |                           |  |  |
|                                                                                                                            |                                                                                                                                  | 30 OVER                                  | ± ---   | APPROVED BY<br>N. UKITA    | DATE<br>2004/09/27 | MOLEX INCORPORATED                                                                     |                        |                           |  |  |
|                                                                                                                            |                                                                                                                                  | ANGULAR                                  | ± --- ° | MATERIAL NO.               |                    | DOCUMENT NO.                                                                           |                        | SHEET NO.                 |  |  |
|                                                                                                                            | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       | SEE SHEET 4                              |         | SD-54132-064               |                    | 3 OF 4                                                                                 |                        |                           |  |  |
| REV                                                                                                                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                          |         |                            |                    |                                                                                        |                        |                           |  |  |



|                                |      |      |      |      |      |      |                              |      |
|--------------------------------|------|------|------|------|------|------|------------------------------|------|
| 44                             | 49.4 | 45.4 | 30.8 | 31.9 | 26.1 | 29.6 | 54132-5062                   | 50   |
|                                |      |      | 28.3 | 29.4 | 23.6 | 27.1 | 54132-4562                   | 45   |
|                                |      |      | 27.3 | 28.4 | 22.6 | 26.1 | 54132-4362                   | 43   |
|                                |      |      | 25.8 | 26.9 | 21.1 | 24.6 | 54132-4062                   | 40   |
|                                |      |      | 24.8 | 25.9 | 20.1 | 23.6 | 54132-3862                   | 38   |
|                                |      |      | 23.8 | 24.9 | 19.1 | 22.6 | 54132-3662                   | 36   |
|                                |      |      | 23.3 | 24.4 | 18.6 | 22.1 | 54132-3562                   | 35   |
|                                |      |      | 22.8 | 23.9 | 18.1 | 21.6 | 54132-3462                   | 34   |
|                                |      |      | 22.3 | 23.4 | 17.6 | 21.1 | 54132-3362                   | 33   |
|                                |      |      | 21.8 | 22.9 | 17.1 | 20.6 | 54132-3262                   | 32   |
|                                |      |      | 20.8 | 21.9 | 16.1 | 19.6 | 54132-3062                   | 30   |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | F    | E    | D    | C    | B    | A    | MATERIAL NO.<br>(EMBOSS PKG) | CKT. |

|         |                   |                                                |                                                            |            |                                                                                                                                               |       |                                         |  |                                                                                        |                        |                           |  |  |
|---------|-------------------|------------------------------------------------|------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------|--|----------------------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED | EC NO: J2008-4308 | DRWN:MMABEI<br>CH'K'D:THARUYAMA<br>APPR:NUKITA | DESCRIPTION                                                | REV        | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |       | DIMENSION STYLE<br>MM ONLY              |  | SCALE<br>---                                                                           | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|         |                   |                                                |                                                            |            | 10 UNDER                                                                                                                                      | ± --- | DRAWN BY DATE<br>M.UMEDA 2004/09/27     |  | TITLE<br>0.5 FPC CONN. HSG ASSY<br>BTM CONTACT GOLD PLATING<br>-LEAD FREE-(NI-BARRIER) |                        |                           |  |  |
|         |                   |                                                |                                                            |            | 10 OVER 30 UNDER                                                                                                                              | ± --- | CHECKED BY DATE<br>K. TOYODA 2004/09/27 |  |                                                                                        |                        |                           |  |  |
|         |                   |                                                |                                                            |            | 30 OVER                                                                                                                                       | ± --- | APPROVED BY DATE<br>M.UMEDA 2004/09/27  |  | molex MOLEX INCORPORATED                                                               |                        |                           |  |  |
|         |                   |                                                |                                                            |            | ANGULAR ± --- °                                                                                                                               |       | MATERIAL NO.                            |  | DOCUMENT NO.                                                                           |                        | SHEET NO.                 |  |  |
|         |                   |                                                | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | SIZE<br>A3 | SEE TABLE<br>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                                         |  |                                                                                        | SD-54132-064<br>4 OF 4 |                           |  |  |