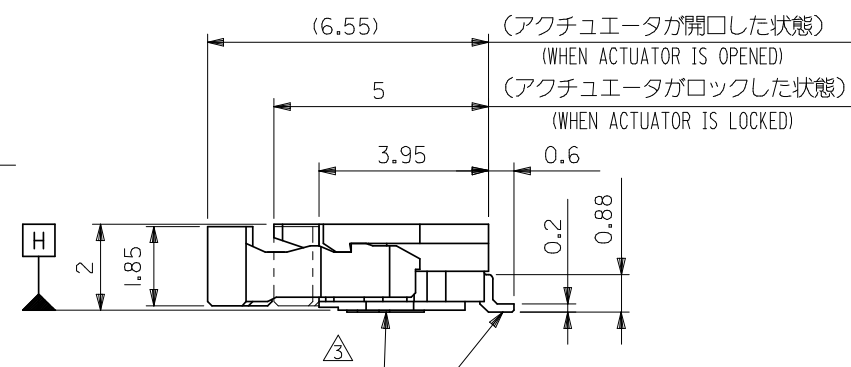
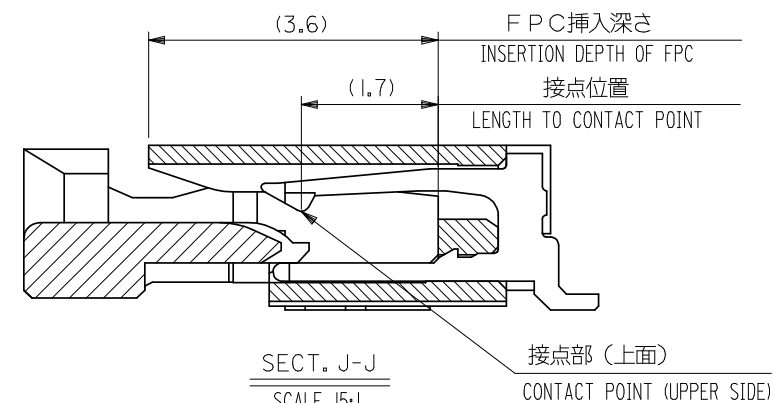
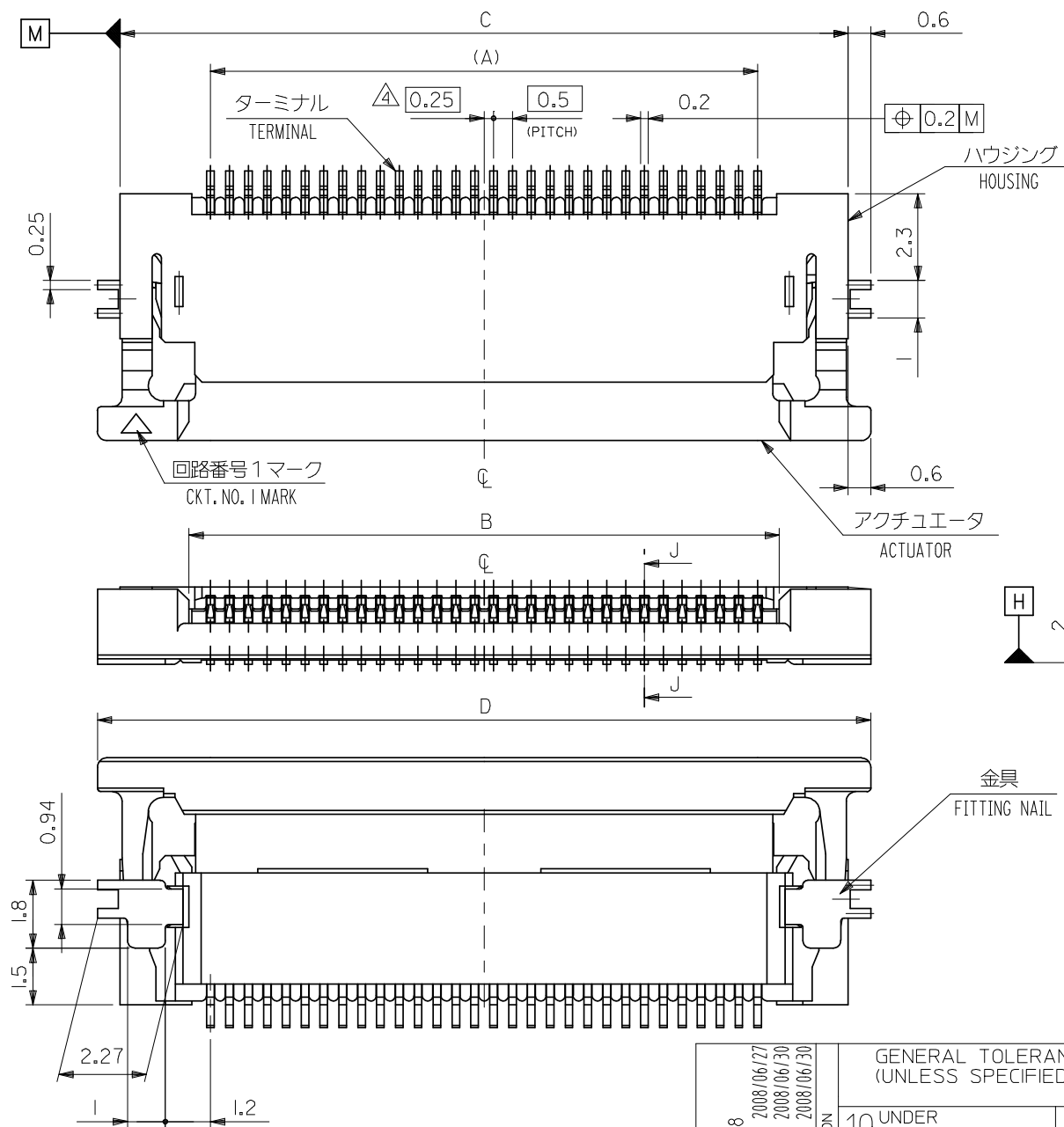




|                   |            |
|-------------------|------------|
| REVISED           | 2008/06/27 |
| EC NO: J2008-4308 | 2008/06/30 |
| DRWN: MWABEI      | 2008/06/30 |
| CH'KD: THARUYAMA  | 2008/06/30 |
| APPR: NUKITA      | 2008/06/30 |

|             |                                                            |        |
|-------------|------------------------------------------------------------|--------|
| DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        |
|             | 10 <sup>UNDER</sup>                                        | ± 0.2  |
|             | 10 <sup>OVER</sup> 30 <sup>UNDER</sup>                     | ± 0.25 |
|             | 30 <sup>OVER</sup>                                         | ± 0.3  |
|             | ANGULAR ± 3 °                                              |        |
| REV         | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |

|                  |                       |
|------------------|-----------------------|
| DIMENSION STYLE  |                       |
| MM ONLY          |                       |
| DRAWN BY         | DATE                  |
| MNABEI           | '04/07/09             |
| CHECKED BY       | DATE                  |
| KTOJO            | '04/07/09             |
| APPROVED BY      | DATE                  |
| NUKITA           | '04/07/09             |
| MATERIAL NO.     |                       |
| SEE SHEET 2 OF 2 |                       |
| SIZE             | THIS DRAWING CONTAINS |
| A3               | INCORPORATED AND      |

|                                                                    |                        |                           |
|--------------------------------------------------------------------|------------------------|---------------------------|
| SCALE<br>---                                                       | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |
| TITLE<br>0.5 FPC CONN. ZIF SMT<br>R/A UPPER CONTACT<br>-LEAD FREE- |                        |                           |
| MOLEX MOLEX INCORPORATED                                           |                        |                           |
| DOCUMENT NO.<br>SD-54104-077                                       | SHEET NO.<br>1 OF 2    |                           |

ALL INFORMATION THAT IS PROPRIETARY TO MOLEX  
SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

F

E

D

C

B

A

F

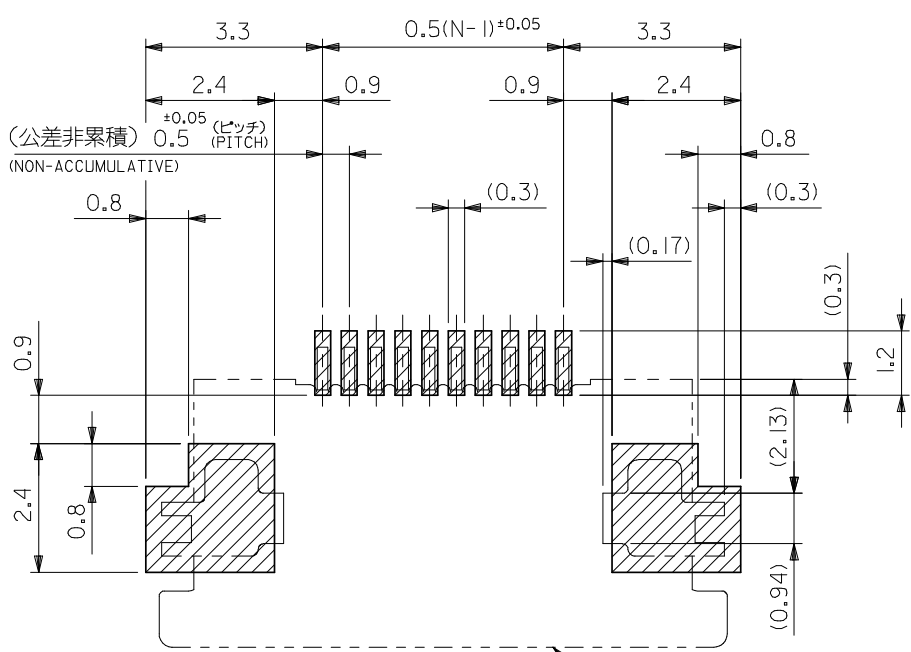
E

D

C

B

A



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

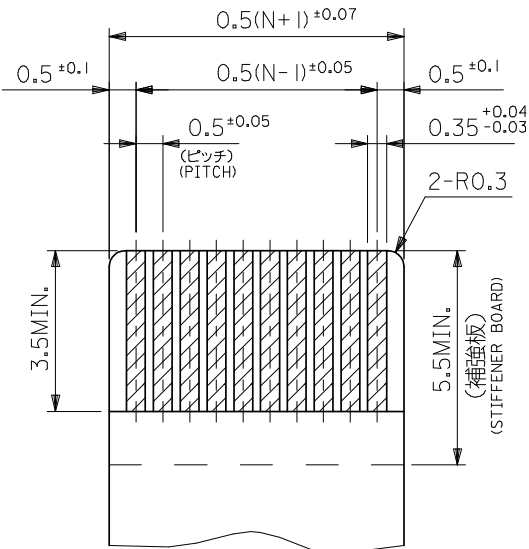
コネクタ位置  
CONNECTOR POSITION

注記 NOTES

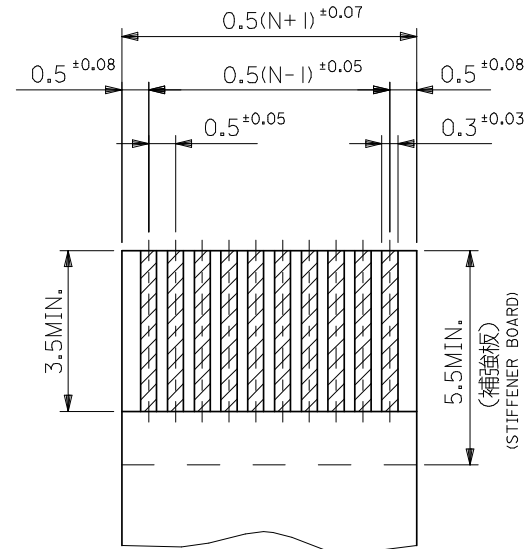
I. 使用材料 MATERIAL

- ハウジング : 46ナイロン, UL94V-0  
HOUSING 46NYLON
- アクチュエータ : PPA, UL94V-0  
ACTUATOR
- ターミナル : リン青銅 (t=0.2)  
TERMINAL ニッケル下地 : 1.0μm MIN.  
金メッキ : 0.1μm MIN.  
PHOSPHOR BRONZE  
GOLD 0.1μm MIN.  
OVER NICKEL 1.0μm MIN.  
PLATING
- 金具 : リン青銅, 銅メッキ (t=0.2)  
FITTING NAIL PHOS-BRO, TIN-PLATED

2. エンボステープ梱包時は、アクチュエータがロックした状態とする。  
IN THE PACKAGE, ACTUATOR OF PART NO.54104-\*\*\*29 SHOULD BE LOCKED.
- △ 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. とし、平坦度は 0.1 MAX. とする。  
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM H UPPER DIRECTION: 0.1 MAX., LOWER DIRECTION: 0.15 MAX. COPLANARITY 0.1 MAX.
- △ 偶数極に適用。  
APPLY FOR EVEN CIRCUIT.
- △ 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 54104-\*\*\*39 のターミナル部分金メッキ品である。



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)

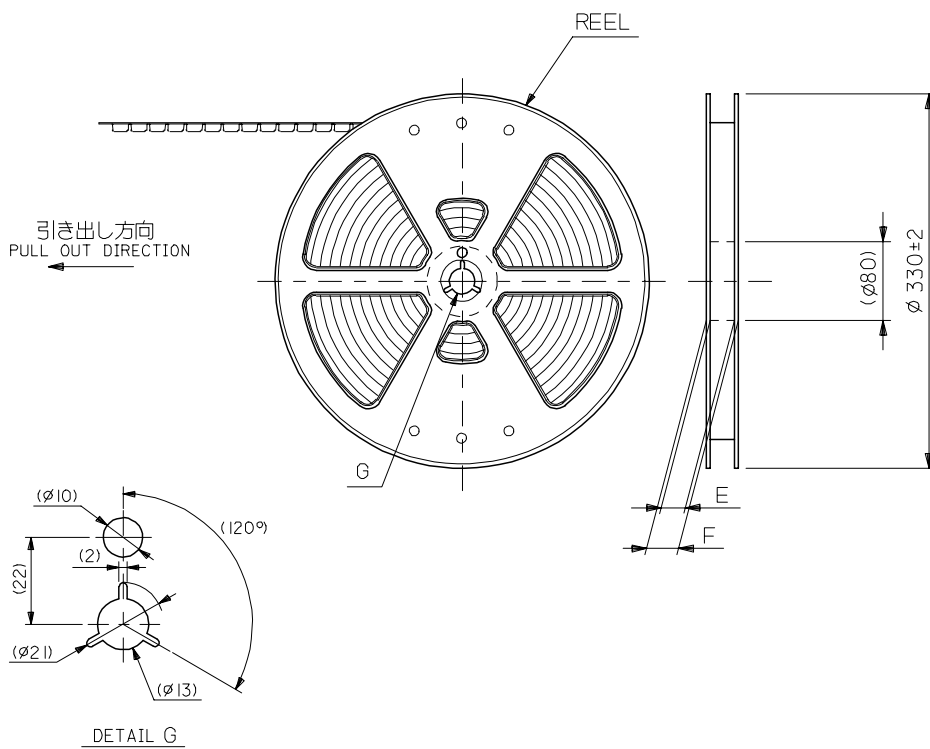


適合FFC推奨寸法  
APPLICABLE FFC  
RECOMMENDED DIMENSION  
(仕上がり厚さ: 0.3±0.03)  
(THICKNESS: 0.3±0.03)

金メッキ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。  
RECOMMENDED PUNCHER DIRECTION: FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.

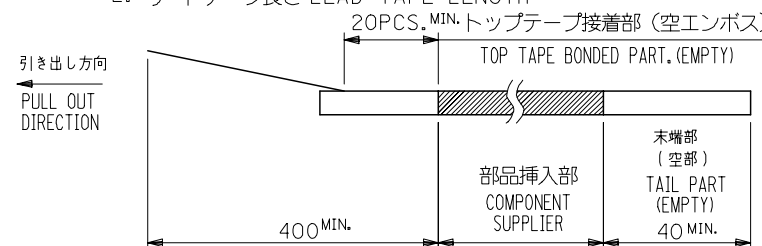
|      |      |       |      |                  |            |                   |
|------|------|-------|------|------------------|------------|-------------------|
| 30.5 | 29.3 | 25.65 | 24.5 | 54104-5031       | 54104-5029 | 50                |
| 28.5 | 27.3 | 23.65 | 22.5 | 54104-4631       | 54104-4629 | 46                |
| 28.0 | 26.8 | 23.15 | 22.0 | 54104-4531       | 54104-4529 | 45                |
| 27.5 | 26.3 | 22.65 | 21.5 | 54104-4431       | 54104-4429 | 44                |
| 27.0 | 25.8 | 22.15 | 21.0 | 54104-4331       | 54104-4329 | 43                |
| 25.5 | 24.3 | 20.65 | 19.5 | 54104-4031       | 54104-4029 | 40                |
| 24.5 | 23.3 | 19.65 | 18.5 | 54104-3831       | 54104-3829 | 38                |
| 23.5 | 22.3 | 18.65 | 17.5 | 54104-3631       | 54104-3629 | 36                |
| 23.0 | 21.8 | 18.15 | 17.0 | 54104-3531       | 54104-3529 | 35                |
| 22.5 | 21.3 | 17.65 | 16.5 | 54104-3431       | 54104-3429 | 34                |
| 22.0 | 20.8 | 17.15 | 16.0 | 54104-3331       | 54104-3329 | 33                |
| 21.5 | 20.3 | 16.65 | 15.5 | 54104-3231       | 54104-3229 | 32                |
| 20.5 | 19.3 | 15.65 | 14.5 | 54104-3031       | 54104-3029 | 30                |
| D    | C    | B     | A    | EMBOSSED TAPE    |            | MATERIAL NO. CKT. |
|      |      |       |      | ORDER No. オーダー番号 |            |                   |

|                                                                                 |                                                       |                                                            |                                                                                                                                  |                       |                   |                                                                    |              |                           |        |  |
|---------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|--------------------------------------------------------------------|--------------|---------------------------|--------|--|
| REVISED<br>EC NO: J2008-4308<br>DRWN: MNABEI<br>CHKD: THARUYAMA<br>APPR: NUKITA | DESCRIPTION<br>2008/06/27<br>2008/06/30<br>2008/06/30 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |                                                                                                                                  | DIMENSION STYLE       |                   | SCALE                                                              | DESIGN UNITS | THIRD ANGLE<br>PROJECTION |        |  |
|                                                                                 |                                                       |                                                            |                                                                                                                                  | MM ONLY               |                   | ---                                                                | METRIC       |                           |        |  |
|                                                                                 |                                                       | 10 UNDER                                                   | ± 0.2                                                                                                                            | DRAWN BY<br>MNABEI    | DATE<br>'04/07/09 | TITLE<br>0.5 FPC CONN. ZIF SMT<br>R/A UPPER CONTACT<br>-LEAD FREE- |              |                           |        |  |
|                                                                                 |                                                       | 10 OVER 30 UNDER                                           | ± 0.25                                                                                                                           | CHECKED BY<br>KT0JO   | DATE<br>'04/07/09 |                                                                    |              |                           |        |  |
|                                                                                 |                                                       | 30 OVER                                                    | ± 0.3                                                                                                                            | APPROVED BY<br>NUKITA | DATE<br>'04/07/09 | molex MOLEX INCORPORATED                                           |              |                           |        |  |
|                                                                                 |                                                       | ANGULAR ±3 °                                               |                                                                                                                                  | MATERIAL NO.          |                   |                                                                    |              |                           |        |  |
|                                                                                 |                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  | SEE TABLE             |                   | SD-54104-077                                                       |              |                           | 2 OF 2 |  |
| REV                                                                             |                                                       | SIZE<br>A3                                                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                       |                   |                                                                    |              |                           |        |  |



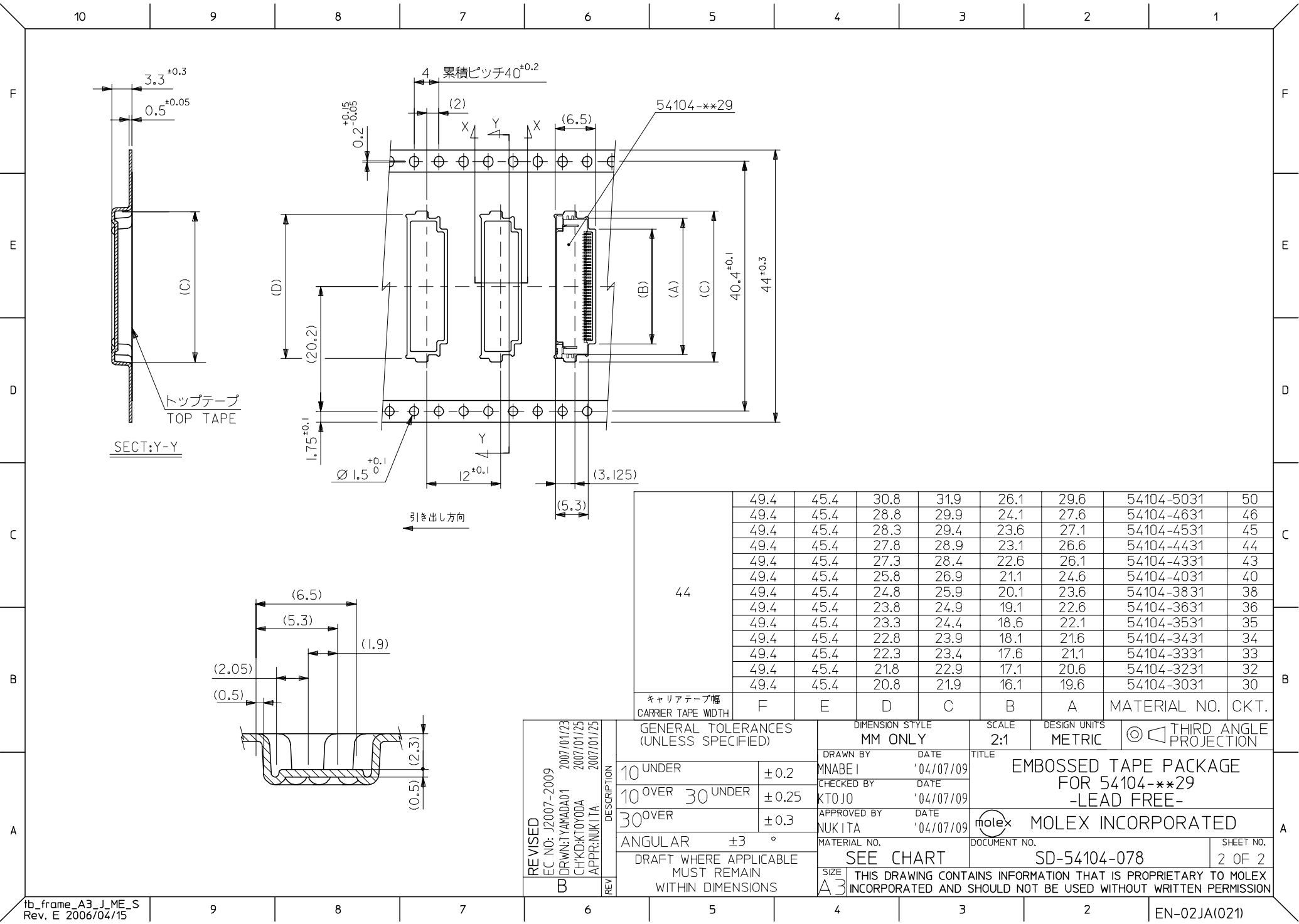
### NOTES

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



3. 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 (POLYSTYLENE)
4. 本製品は 54104-\*\*-96 のターミナル部分金メッキ品である。

|         |                                                                      |                                        |                                                                                                                                  |                                                            |              |                            |                     |                                                                      |                        |                                                                                                                 |
|---------|----------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|----------------------------|---------------------|----------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| REVISED | EC NO: J2007-2009<br>DRAWN:TYAMADA01<br>CHKD:KATOYODA<br>APPR:NUKITA | 2007/01/23<br>2007/01/25<br>2007/01/25 | DESCRIPTION                                                                                                                      | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |              | DIMENSION STYLE<br>MM ONLY |                     | SCALE<br>2:1                                                         | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |
|         |                                                                      |                                        |                                                                                                                                  | 10 UNDER                                                   | ± 0.2        | DRAWN BY<br>MNABEI         | DATE<br>'04/07/09   | TITLE<br><br>EMBOSSSED TAPE PACKAGE<br>FOR 54104-**29<br>-LEAD FREE- |                        |                                                                                                                 |
|         |                                                                      |                                        |                                                                                                                                  | 10 OVER 30 UNDER                                           | ± 0.25       | CHECKED BY<br>KTOJO        | DATE<br>'04/07/09   |                                                                      |                        |                                                                                                                 |
|         |                                                                      |                                        |                                                                                                                                  | 30 OVER                                                    | ± 0.3        | APPROVED BY<br>NUKITA      | DATE<br>'04/07/09   |                                                                      |                        |                                                                                                                 |
|         |                                                                      |                                        |                                                                                                                                  | ANGULAR ±3 °                                               | MATERIAL NO. | DOCUMENT NO.               | SHEET NO.<br>1 OF 2 |                                                                      |                        |                                                                                                                 |
|         |                                                                      |                                        |                                                                                                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |              | SEE CHART                  |                     |                                                                      | SD-54104-078           |                                                                                                                 |
| REV     | SIZE<br>A3                                                           |                                        | 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 | 54104-5031   | 50   |
|                                | 49.4 | 45.4 | 28.8 | 29.9 | 24.1 | 27.6 | 54104-4631   | 46   |
|                                | 49.4 | 45.4 | 28.3 | 29.4 | 23.6 | 27.1 | 54104-4531   | 45   |
|                                | 49.4 | 45.4 | 27.8 | 28.9 | 23.1 | 26.6 | 54104-4431   | 44   |
|                                | 49.4 | 45.4 | 27.3 | 28.4 | 22.6 | 26.1 | 54104-4331   | 43   |
|                                | 49.4 | 45.4 | 25.8 | 26.9 | 21.1 | 24.6 | 54104-4031   | 40   |
|                                | 49.4 | 45.4 | 24.8 | 25.9 | 20.1 | 23.6 | 54104-3831   | 38   |
|                                | 49.4 | 45.4 | 23.8 | 24.9 | 19.1 | 22.6 | 54104-3631   | 36   |
|                                | 49.4 | 45.4 | 23.3 | 24.4 | 18.6 | 22.1 | 54104-3531   | 35   |
|                                | 49.4 | 45.4 | 22.8 | 23.9 | 18.1 | 21.6 | 54104-3431   | 34   |
|                                | 49.4 | 45.4 | 22.3 | 23.4 | 17.6 | 21.1 | 54104-3331   | 33   |
|                                | 49.4 | 45.4 | 21.8 | 22.9 | 17.1 | 20.6 | 54104-3231   | 32   |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | 49.4 | 45.4 | 20.8 | 21.9 | 16.1 | 19.6 | 54104-3031   | 30   |
|                                | F    | E    | D    | C    | B    | A    | MATERIAL NO. | CKT. |

|                                                                                    |                                        |                    |                                                            |       |                            |                                                                                                                                  |                                                                 |                        |                           |  |  |
|------------------------------------------------------------------------------------|----------------------------------------|--------------------|------------------------------------------------------------|-------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2007-2009<br>DRWN:TYAMADA01<br>CHKD:KTOYODA<br>APPR:NUKITA<br>B | 2007/01/23<br>2007/01/25<br>2007/01/25 | DESCRIPTION<br>REV | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |       | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>2:1                                                    | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                    |                                        |                    | 10 UNDER                                                   | ±0.2  | DRAWN BY<br>MNABEI         | DATE<br>'04/07/09                                                                                                                | TITLE<br>EMBOSSD TAPE PACKAGE<br>FOR 54104-**-29<br>-LEAD FREE- |                        |                           |  |  |
|                                                                                    |                                        |                    | 10 OVER 30 UNDER                                           | ±0.25 | CHECKED BY<br>KTOJO        | DATE<br>'04/07/09                                                                                                                |                                                                 |                        |                           |  |  |
|                                                                                    |                                        |                    | 30 OVER                                                    | ±0.3  | APPROVED BY<br>NUKITA      | DATE<br>'04/07/09                                                                                                                | MOLEX INCORPORATED                                              |                        |                           |  |  |
|                                                                                    |                                        |                    | ANGULAR ±3 °                                               |       | MATERIAL NO.               |                                                                                                                                  | DOCUMENT NO.                                                    |                        | SHEET NO.                 |  |  |
|                                                                                    |                                        |                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SEE CHART                  |                                                                                                                                  | SD-54104-078                                                    |                        | 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 |                                                                 |                        |                           |  |  |