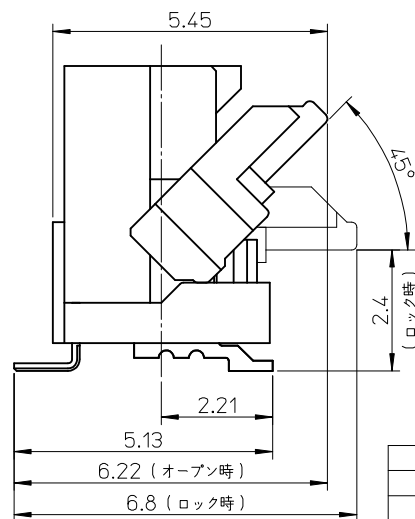
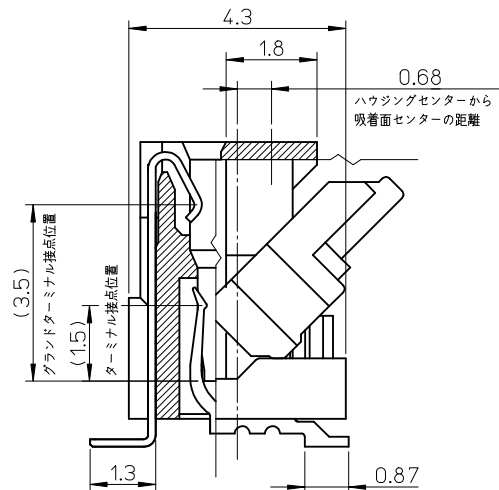
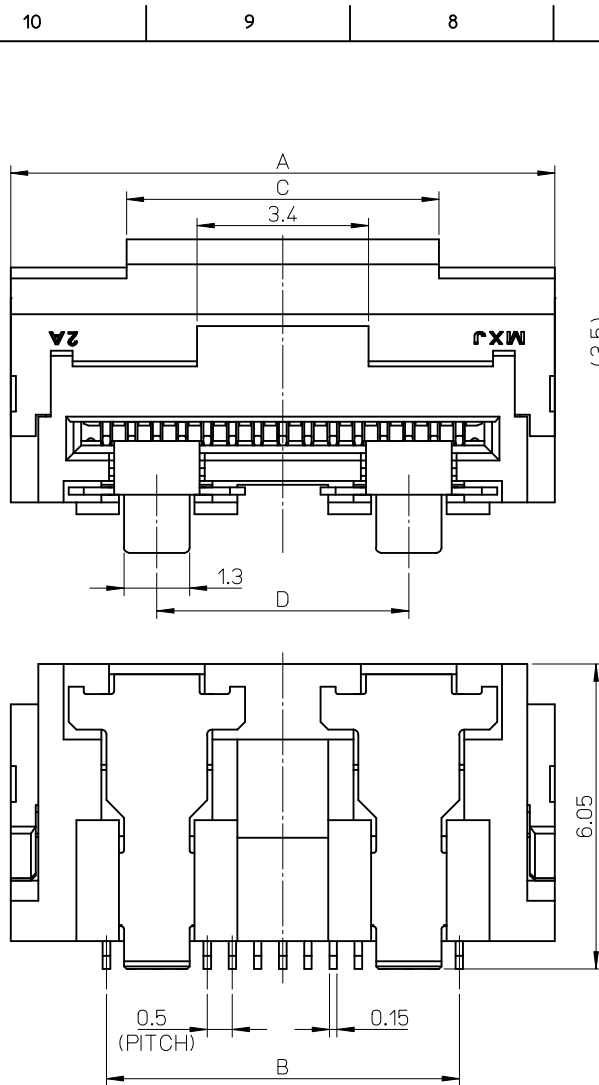




注記
NOTES:
~~~~~

1.材質  
MATERIAL  
ハウジング: LCP(液晶ポリマー)、ガラス充填、ナチュラル色、UL94V-0  
HOUSING: LIQUID CRYSTAL POLYMER, GLASS FILLED, COLOR: NATURAL, UL94V-0  
アクチュエータ: ポリアミド9T、ガラス充填、茶色、UL94V-0  
ACTUATOR: POLYAMIDE 9T, GLASS FILLED, COLOR: BROWN, UL94V-0  
ターミナル: 燐青銅 (t=0.15)  
TERMINAL: PHOSPHOR BRONZE (t=0.15)  
グラウンドターミナル: 燐青銅 (t=0.15)  
GROUND TERMINAL: PHOSPHOR BRONZE (t=0.15)

2.めっき仕様  
PLATING  
ターミナル  
TERMINAL  
金めっき  
GOLD PLATING 0.05 micro-meter min.  
下地ニッケルめっき  
UNDER PLATING: NICKEL PLATING 1.0 micro-meter min.  
グラウンドターミナル  
GROUND TERMINAL  
錫めっき  
TIN PLATING 1.0 micro-meter min.  
下地ニッケルめっき  
UNDER PLATING: NICKEL PLATING 1.0 micro-meter min.

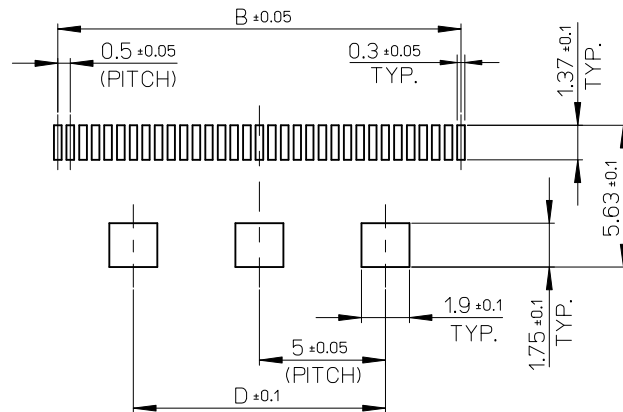
3.平坦度は、0.1ミリ以下とする。  
TAILS COPLANARITY TO BE 0.1 MAXIMUM.

△ 使用するFFCはターミナル用パターン導体部とグラウンドターミナル用パターン導体部が重ならないこと。  
FFC IS NOT OVER LAP PATTERN OF TERMINAL AND GROUND TERMINAL.

|                 |    |     |      |      |                  |              |          |
|-----------------|----|-----|------|------|------------------|--------------|----------|
| 3               | 10 | 10  | 16   | 19.8 | 502231-3300      | 502231-3309  | 33       |
| 2               | 5  | 10  | 11.5 | 15.3 | 502231-2400      | 502231-2409  | 24       |
| 2               | 5  | 6.2 | 7    | 10.8 | 502231-1500      | 502231-1509  | 15       |
| グラウンドターミナルピン数   | D  | C   | B    | A    | EMBOSSED TAPE    | 製品番号         | 極数       |
| GROUND TERM QT. |    |     |      |      | ORDER No. オーダー番号 | MATERIAL NO. | CIRCUITS |

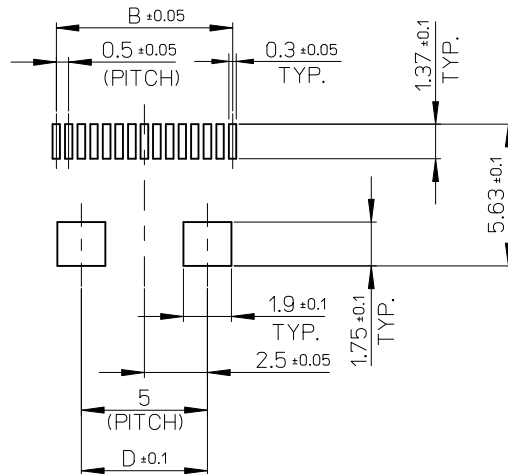
|                                                                                 |             |                                                            |        |                            |                    |                                                                               |                                                                                                                                  |                           |  |  |
|---------------------------------------------------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------|--------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------|--|--|
| REVISED<br>EC NO.: J2009-2073<br>DRWN:MTAKASAKI<br>CH'KD:MIYASHI<br>APPR:NUKITA | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>10:1                                                                 | DESIGN UNITS<br>METRIC                                                                                                           | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                 |             | 10 UNDER                                                   | ± 0.2  | DRAWN BY<br>TRSUZUKI       | DATE<br>2006/08/24 | TITLE<br>0.5 FFC CONN HSG ASSY<br>FOR LVDS E/O STRAIGHT<br>(GOLD) -LEAD FREE- |                                                                                                                                  |                           |  |  |
|                                                                                 |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>HHIRATA      | DATE<br>2006/08/24 |                                                                               |                                                                                                                                  |                           |  |  |
|                                                                                 |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>MSASAO      | DATE<br>2006/08/24 | MOLEX MOLEX INCORPORATED                                                      |                                                                                                                                  |                           |  |  |
|                                                                                 |             | ANGULAR ±1 °                                               |        | MATERIAL NO.               |                    | DOCUMENT NO.                                                                  |                                                                                                                                  | SHEET NO.                 |  |  |
|                                                                                 |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE CHART                  |                    | SD-502231-001                                                                 |                                                                                                                                  | 1 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 |                           |  |  |

10 9 8 7 6 5 4 3 2 1



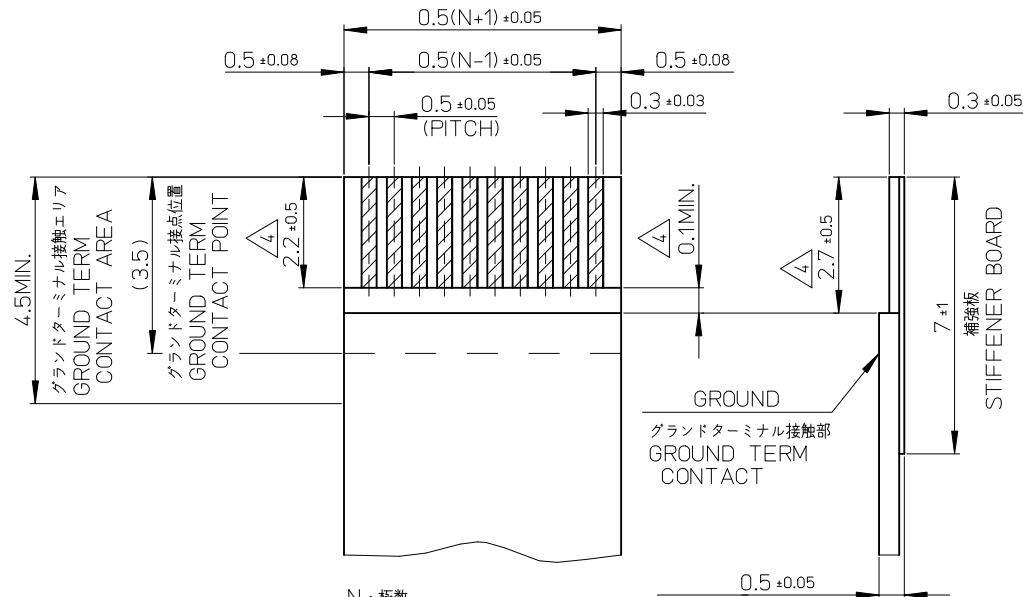
参考基板レイアウト  
(グラウンドターミナルピン数 : 奇数品に適用)

P.C. BOARD PATTERN LAYOUT  
(GROUND TERMINAL QUANTITY : ODD NUMBER)



参考基板レイアウト  
(グラウンドターミナルピン数 : 偶数品に適用)

P.C. BOARD PATTERN LAYOUT  
(GROUND TERMINAL QUANTITY : EVEN NUMBER)



N : 極数  
N : CIRCUITS

適合FFC推奨寸法

APPLICABLE FFC  
RECOMMENDED DIMENSION

先端から5mm迄維持すること  
(コネクタグラウンドターミナル接触部)  
MAINTAIN MEASURE FROM  
THE POINT TO 5mm  
(GROUND TERM CONTACT)

FFCについて :

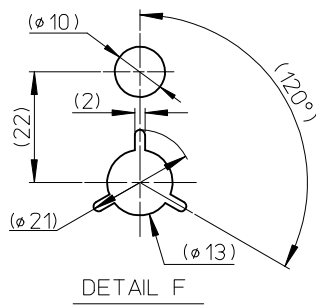
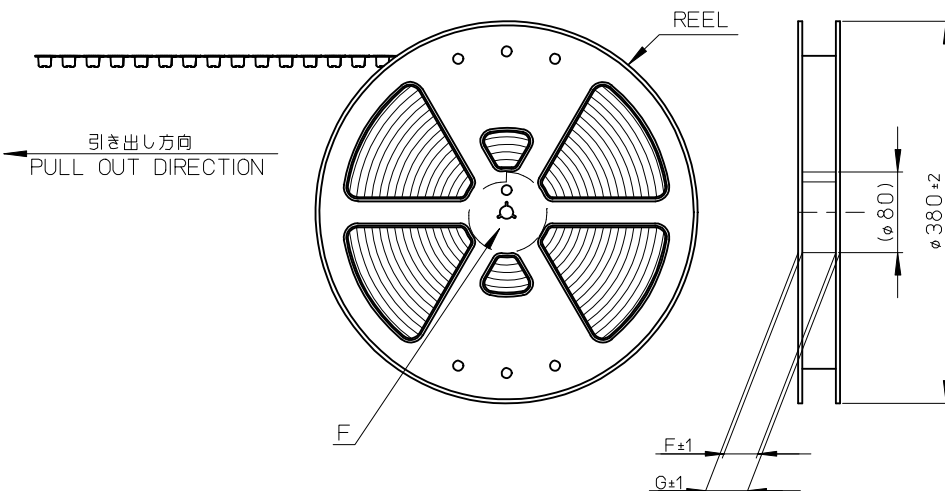
抜き方向は導体側から補強板側を推奨致します。  
導体部については、軟銅箔 : 35マイクロメートル又は50マイクロメートル  
金めっきを推奨致します。

ABOUT FFC:

RECOMMENDED PUNCHER DIRECTION :  
FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.  
RECOMMENDED CONDUCTOR SPEC :  
THICKNESS OF SOFT COPPER :  
35 MICROMETER OR 50 MICROMETER  
GOLD PLATING

|                                                                                      |             |                                                                                                                                  |        |                            |                    |                                                                                                         |                        |                                                                                                                 |
|--------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|--------------------|---------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| SEE SHEET 1<br>EC NO.: J2009-2073<br>DRAWN:MTAKASAKI<br>CHKD:MHAYASHI<br>APPR:NUKITA | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                         |        | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>5:1                                                                                            | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |
|                                                                                      |             | 10 UNDER                                                                                                                         | ± 0.2  | DRAWN BY<br>TRSUZUKI       | DATE<br>2006/08/24 | TITLE<br>0.5 FFC CONN HSG ASSY<br>FOR LVDS E/O STRAIGHT<br>(GOLD) -LEAD FREE-<br><br>MOLEX INCORPORATED |                        |                                                                                                                 |
|                                                                                      |             | 10 OVER 30 UNDER                                                                                                                 | ± 0.25 | CHECKED BY<br>HHIRATA      | DATE<br>2006/08/24 |                                                                                                         |                        |                                                                                                                 |
|                                                                                      |             | 30 OVER                                                                                                                          | ± 0.3  | APPROVED BY<br>MSASAO      | DATE<br>2006/08/24 |                                                                                                         |                        |                                                                                                                 |
|                                                                                      |             | ANGULAR ±1 °                                                                                                                     |        | MATERIAL NO.               |                    |                                                                                                         |                        |                                                                                                                 |
|                                                                                      | REV         | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |        | SEE SHEET 1                |                    | SD-502231-001                                                                                           |                        | 2 OF 2                                                                                                          |
| C                                                                                    | SIZE<br>A3  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                    |                                                                                                         |                        |                                                                                                                 |

10 9 8 7 6 5 4 3 2 1

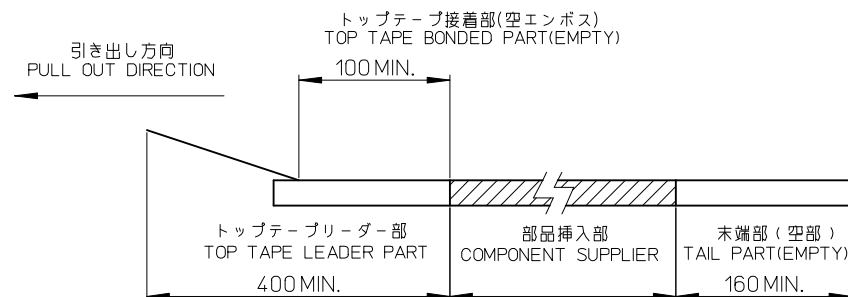


#### NOTES

1.製品詳細寸法につきましては、製品単体図面を参照して下さい。  
FOR DETAIL OF CONNECTOR DIMENSIONS,  
PLEASE SEE THE DRAWING OF CONNECTOR ITSELF (NOT PACKAGED).

2.梱包数量：1000個/リール  
NUMBER OF CONNECTORS : 1000PCS/REEL

3.リードテープの長さ  
LEAD TAPE LENGTH



#### 4.材料

##### MATERIAL

キャリアテープ : ポリスチレン (PS)  
CARRIER TAPE : POLYSTYRENE (PS)  
トップテープ : PET , OTHER  
TOP TAPE : PET , OTHER  
リール : ポリスチレン (リサイクル材を含む)  
REEL : POLYSTYRENE (RECYCLE MATERIAL CONTAINED)

|         |                   |                                                                                          |             |                                                            |        |                            |                                                                                                                                  |                                                                                 |                        |                                                                                                                 |              |
|---------|-------------------|------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--------------|
| REVISED | EC NO: J2009-2073 | DRAWN:NTAKASAKI<br>2009/03/13<br>CHKD:HAYASHI<br>2009/03/13<br>APPR:NUKITA<br>2009/03/13 | 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                   | DATE                                                                                                                             | TITLE<br>0.5 FFC CONN EMBSTP PKG<br>FOR LVDS E/O STRAIGHT<br>(GOLD) -LEAD FREE- |                        |                                                                                                                 |              |
|         |                   |                                                                                          |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY                 | DATE                                                                                                                             |                                                                                 |                        |                                                                                                                 |              |
|         |                   |                                                                                          |             | 30 OVER                                                    | ± 0.3  | APPROVED BY                | DATE                                                                                                                             |                                                                                 |                        |                                                                                                                 |              |
|         |                   |                                                                                          |             | ANGULAR ±1 °                                               |        | MATERIAL NO.               |                                                                                                                                  |                                                                                 |                        |                                                                                                                 | DOCUMENT NO. |
|         |                   |                                                                                          |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE SHEET 2                |                                                                                                                                  | SD-502231-002                                                                   |                        |                                                                                                                 | 1 OF 3       |
|         |                   |                                                                                          |             |                                                            |        | 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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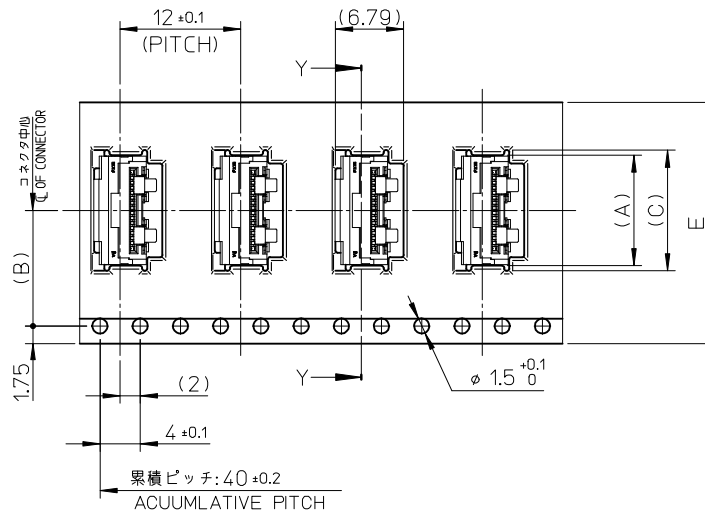
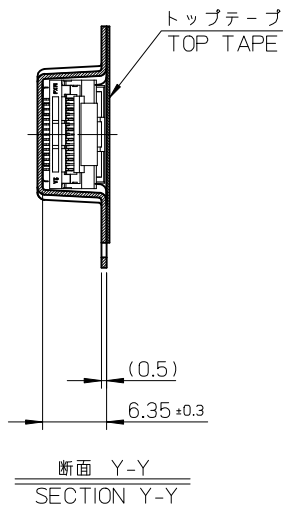
4

3

2

1

引き出し方向  
PULL OUT DIRECTION



|      |      |                                     |     |     |      |     |                   |                      |                |
|------|------|-------------------------------------|-----|-----|------|-----|-------------------|----------------------|----------------|
| 29.4 | 25.4 | 24 ± 0.3                            | --- | 12  | 11.5 | 11  | 502231-1509       | 502231-1500          | 15             |
| G    | F    | E<br>キャリアテープ幅<br>CARRIER TAPE WIDTH | D   | (C) | (B)  | (A) | 製品単体<br>CONNECTOR | 製品番号<br>MATERIAL NO. | 極数<br>CIRCUITS |

|                                                                                                                       |                                                            |                                          |           |                            |                    |                                                                                                                                  |                        |                           |        |           |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|-----------|----------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|--------|-----------|
| SEE SHEET 1<br>EC NO: J2009-2073<br>DRAWN: TAKASAKI 2009/03/13<br>CHKD: HAYASHI 2009/03/13<br>APPR: NUKITA 2009/03/13 | 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>TRSUZUKI       | DATE<br>2006/08/24 | TITLE<br>0.5 FFC CONN EMBSTP PKG<br>FOR LVDS E/O STRAIGHT<br>(GOLD) -LEAD FREE-                                                  |                        |                           |        |           |
|                                                                                                                       |                                                            | 10 OVER 30 UNDER                         | ± 0.25    | CHECKED BY<br>HHIRATA      | DATE<br>2006/08/24 |                                                                                                                                  |                        |                           |        |           |
|                                                                                                                       |                                                            | 30 OVER                                  | ± 0.3     | APPROVED BY<br>MSASAO      | DATE<br>2006/08/24 | MOLEX MOLEX INCORPORATED                                                                                                         |                        |                           |        |           |
|                                                                                                                       |                                                            | ANGULAR ±1 °                             |           | MATERIAL NO.               |                    |                                                                                                                                  | DOCUMENT NO.           |                           |        | SHEET NO. |
|                                                                                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE CHART |                            |                    | SD-502231-002                                                                                                                    |                        |                           | 2 OF 3 |           |
|                                                                                                                       | REV                                                        |                                          |           |                            | 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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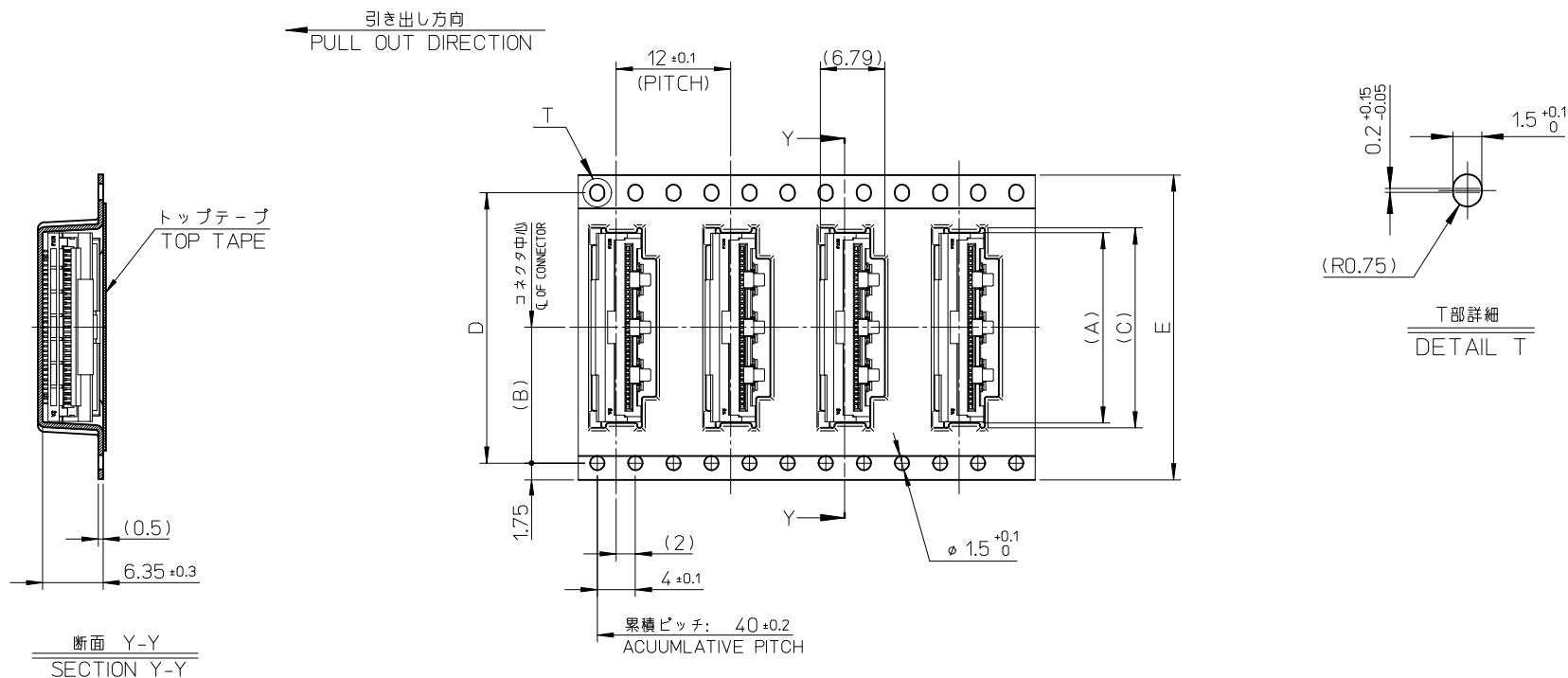
6

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4

3

2



|      |      |                                     |      |                   |      |      |                   |                      |                |
|------|------|-------------------------------------|------|-------------------|------|------|-------------------|----------------------|----------------|
| 37.4 | 33.4 | 32±0.3                              | 28.4 | $\frac{21}{16.5}$ | 14.2 | 20   | 502231-3309       | 502231-3300          | 33             |
|      |      |                                     |      |                   |      | 15.5 | 502231-2409       | 502231-2400          | 24             |
| G    | F    | E<br>キャリアテープ幅<br>CARRIER TAPE WIDTH | D    | (C)               | (B)  | (A)  | 製品単体<br>CONNECTOR | 製品番号<br>MATERIAL NO. | 極数<br>CIRCUITS |

|                                                                                      |             |                                                            |        |                            |                                                                                                                                  |                                                                                 |                        |                           |  |  |
|--------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| SEE SHEET 1<br>EC NO: J2009-2073<br>DRAWN: TAKASAKI<br>CHKD: HAYASHI<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                                                   | ± 0.2  | DRAWN BY<br>TRSUZUKI       | DATE<br>2006/08/24                                                                                                               | TITLE<br>0.5 FFC CONN EMBSTP PKG<br>FOR LVDS E/O STRAIGHT<br>(GOLD) -LEAD FREE- |                        |                           |  |  |
|                                                                                      |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>HIRATA       | DATE<br>2006/08/24                                                                                                               |                                                                                 |                        |                           |  |  |
|                                                                                      |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>MSASAO      | DATE<br>2006/08/24                                                                                                               | MOLEX INCORPORATED                                                              |                        |                           |  |  |
|                                                                                      |             | ANGULAR ±1 °                                               |        | MATERIAL NO.<br>SEE CHART  |                                                                                                                                  | DOCUMENT NO.<br>SD-502231-002                                                   |                        | SHEET NO.<br>3 OF 3       |  |  |
|                                                                                      | REV         | 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 |                                                                                 |                        |                           |  |  |