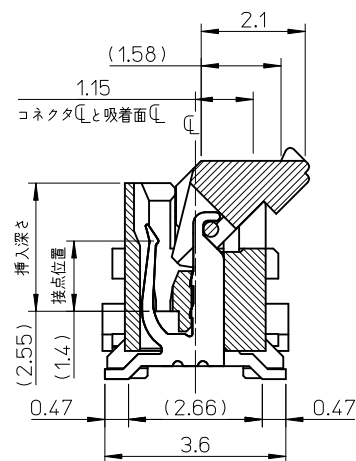
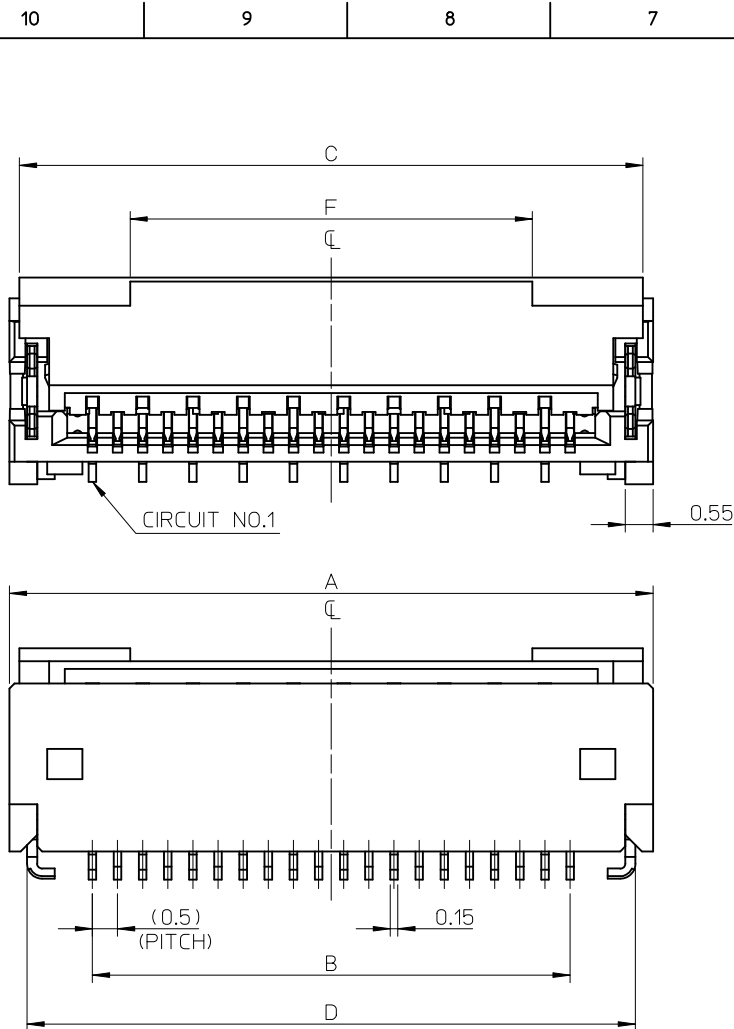
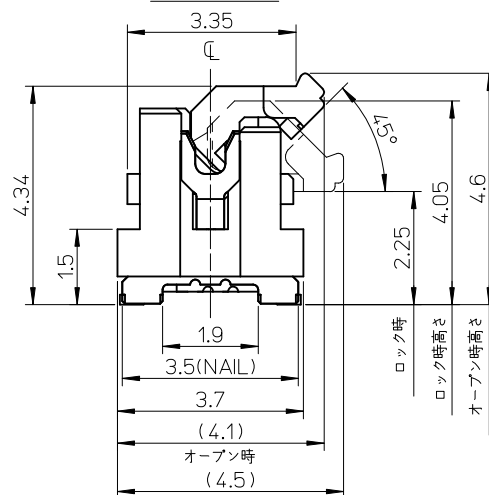




断面図 (参考)



## 注記 NOTES

### 1. 使用材料 MATERIAL

ハウジング : 液晶ポリマー ガラス充填, UL94V-0(白)  
HOUSING : LIQUID CRYSTAL POLYMER GLASS FILLED, UL94V-0 (WHITE)  
アクチュエータ : ポリアミド 9T, ガラス充填, UL94V-0(茶)  
ACTUATOR : POLYAMIDE 9T, GLASS FILLED, UL94V-0 (BROWN)  
ターミナル : 銅合金(t=0.15)  
TERMINAL : COPPER ALLOY  
金具 : 銅合金(t=0.2)  
FITTING NAIL : COPPER ALLOY

### 2. めっき仕様 PLATING

#### ターミナル TERMINAL

コンタクト部: 部分金めっき(0.1μm以上)

テール部: 部分金めっき

下地: ニッケルめっき(1.0μm以上)

CONTACT AREA: SEPARATED GOLD PLATING (0.1 MICROMETER MINIMUM)

SOLDER TAIL AREA: SEPARATED GOLD PLATING

UNDERPLATE: NICKEL OVERALL

#### 金具 FITTING NAIL

ニッケル下地鍍め

鍍め(1.0μm以上)

ニッケルめっき(1.0μm以上)

TIN(Sn) OVER NICKEL(Ni) PLATING.

TIN PLATING (1.0 MICROMETER MINIMUM)

NICKEL PLATING (1.0 MICROMETER MINIMUM)

### 3. テールと金具を併せた平度度は、0.1ミリメートル以下(リフロ前)

TAILS AND NAILS COPLANARITY

TO BE 0.1 MAX. (BEFORE REFLOW)

### 4. ELV及びRoHS適合品

ELV AND RoHS COMPLIANT

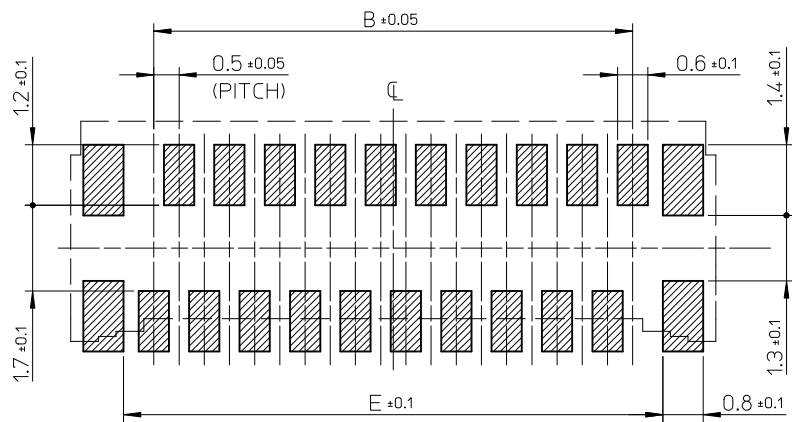
△ R0.3は、FPC導体部にかからないこと。

R0.3 MUST NOT BE OVERLAPPED

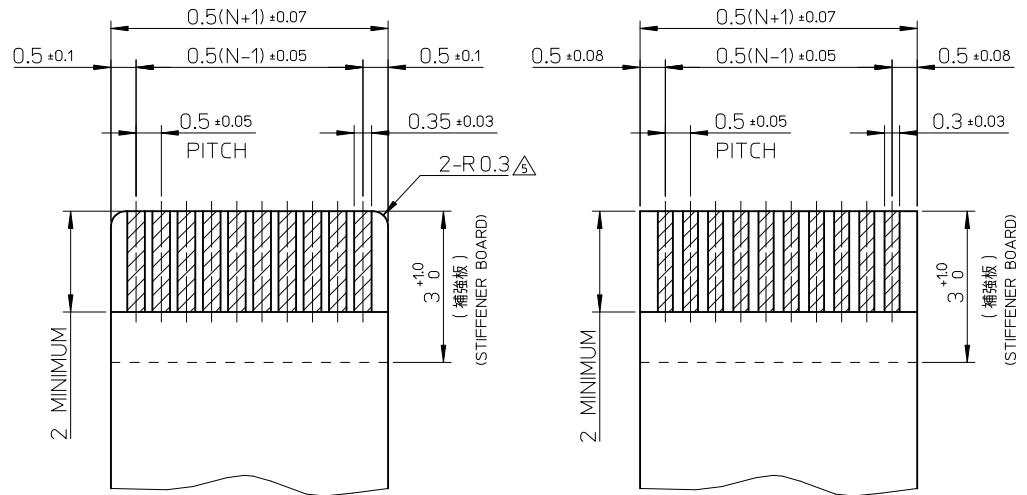
TO PATTERN OF FPC.

|   |      |      |      |      |      |              |          |
|---|------|------|------|------|------|--------------|----------|
| 8 | 35.7 | 37.1 | 37.4 | 34.5 | 37.8 | 501951-7019  | 70       |
|   | 30.7 | 32.1 | 32.4 | 29.5 | 32.8 | 501951-6019  | 60       |
|   | 25.7 | 27.1 | 27.4 | 24.5 | 27.8 | 501951-5019  | 50       |
|   | 23.2 | 24.6 | 24.9 | 22   | 25.3 | 501951-4519  | 45       |
|   | 20.7 | 22.1 | 22.4 | 19.5 | 22.8 | 501951-4019  | 40       |
|   | 16.7 | 18.1 | 18.4 | 15.5 | 18.8 | 501951-3219  | 32       |
|   | 15.7 | 17.1 | 17.4 | 14.5 | 17.8 | 501951-3019  | 30       |
|   | 12.7 | 14.1 | 14.4 | 11.5 | 14.8 | 501951-2419  | 24       |
|   | 11.7 | 13.1 | 13.4 | 10.5 | 13.8 | 501951-2219  | 22       |
|   | 10.7 | 12.1 | 12.4 | 9.5  | 12.8 | 501951-2019  | 20       |
| F | E    | D    | C    | B    | A    | MATERIAL NO. | CIRCUITS |

|                                                                                    |                                        |             |                                                            |                                                                                                                                  |                            |                    |                                                                 |                                                                                                          |                                                                                                                 |           |
|------------------------------------------------------------------------------------|----------------------------------------|-------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------|
| REVISED<br>EC NO: J2011-0887<br>DRAWN:SHIRATA<br>CHK'D:TAKAHASHI<br>APPR:KMORIKAWA | 2011/01/05<br>2011/01/05<br>2011/01/11 | 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>2006/08/21 | TITLE<br>0.5 FPC CONN. HSG ASSY<br>EASY ON / STRAIGHT<br>(GOLD) |                                                                                                          |                                                                                                                 |           |
|                                                                                    |                                        |             | 10 OVER 30 UNDER                                           | ± 0.25                                                                                                                           | CHECKED BY<br>HHIRATA      | DATE<br>2006/08/21 |                                                                 |                                                                                                          |                                                                                                                 |           |
|                                                                                    |                                        |             | 30 OVER                                                    | ± 0.3                                                                                                                            | APPROVED BY<br>MSASAO      | DATE<br>2006/08/21 |                                                                 |  MOLEX INCORPORATED |                                                                                                                 |           |
|                                                                                    |                                        |             | ANGULAR ±1 °                                               |                                                                                                                                  | MATERIAL NO.               |                    | DOCUMENT NO.                                                    |                                                                                                          |                                                                                                                 | SHEET NO. |
|                                                                                    |                                        |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  | SEE CHART                  |                    | SD-501951-003                                                   |                                                                                                          |                                                                                                                 | 1 OF 2    |
|                                                                                    |                                        |             | REV                                                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                    |                                                                 |                                                                                                          |                                                                                                                 |           |



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



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)  
N: 極数  
N: CIRCUITS

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)  
N: 極数  
N: CIRCUITS

### FPC について:

打ち抜き方向は導体側から補強板側を推奨します。  
導体部については軟銅箔35 $\mu$ mまたは50 $\mu$ mを推奨します。  
補強フィルム材質はポリイミドを推奨します。ベースフィルムは25 $\mu$ mを推奨します。  
接着剤は熱硬化接着剤を推奨します。  
尚、接着剤の接点部への付着は導通不良の原因になりますので、染み出しが無い様お願い致します。

### ABOUT FPC

RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.  
RECOMMENDED CONDUCTOR SPEC :  
THICKNESS OF SOFT COPPER FOIL : 35 MICROMETER OR 50 MICROMETER.  
RECOMMENDED MATERIAL/THICKNESS.  
STIFFENER FILM : POLYIMIDE  
BASE FILM THICKNESS : 25 $\mu$ m  
BONDING AGENT : THERMOSETTING BONDING AGENT  
PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON ADHEREND BECAUSE THERE IS A POSSIBILITY THAT THE EXTRA ADHESIVE CAUSES THE DEFECT IN ELECTRICAL CONTINUITY.

|                                                                                                                                  |                                                            |                                          |                             |                            |                               |                                                                 |                                                                                                                                  |                           |  |  |       |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|-----------------------------|----------------------------|-------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------|--|--|-------|--|--|--|
| SEE SHEET 1<br>EC NO.: J2011-0887<br>DRWN:SHIRATA<br>CHKD:TAKAHASHI<br>APPR:KMORI KAWA<br>2011/01/05<br>2011/01/05<br>2011/01/11 | 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                       | TRSUZUKI                   | 2006/08/21                    | TITLE<br>0.5 FPC CONN. HSG ASSY<br>EASY ON / STRAIGHT<br>(GOLD) |                                                                                                                                  |                           |  |  |       |  |  |  |
|                                                                                                                                  |                                                            | 10 OVER 30 UNDER                         | ± 0.25                      | HHIRATA                    | 2006/08/21                    |                                                                 |                                                                                                                                  |                           |  |  |       |  |  |  |
|                                                                                                                                  |                                                            | 30 OVER                                  | ± 0.3                       | APPROVED BY                | DATE                          | MOLEX INCORPORATED                                              |                                                                                                                                  |                           |  |  |       |  |  |  |
|                                                                                                                                  |                                                            | ANGULAR ±1 °                             |                             | MSASAO                     | 2006/08/21                    |                                                                 |                                                                                                                                  |                           |  |  | MOLEX |  |  |  |
|                                                                                                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | MATERIAL NO.<br>SEE SHEET 1 |                            | DOCUMENT NO.<br>SD-501951-003 |                                                                 |                                                                                                                                  |                           |  |  |       |  |  |  |
|                                                                                                                                  | 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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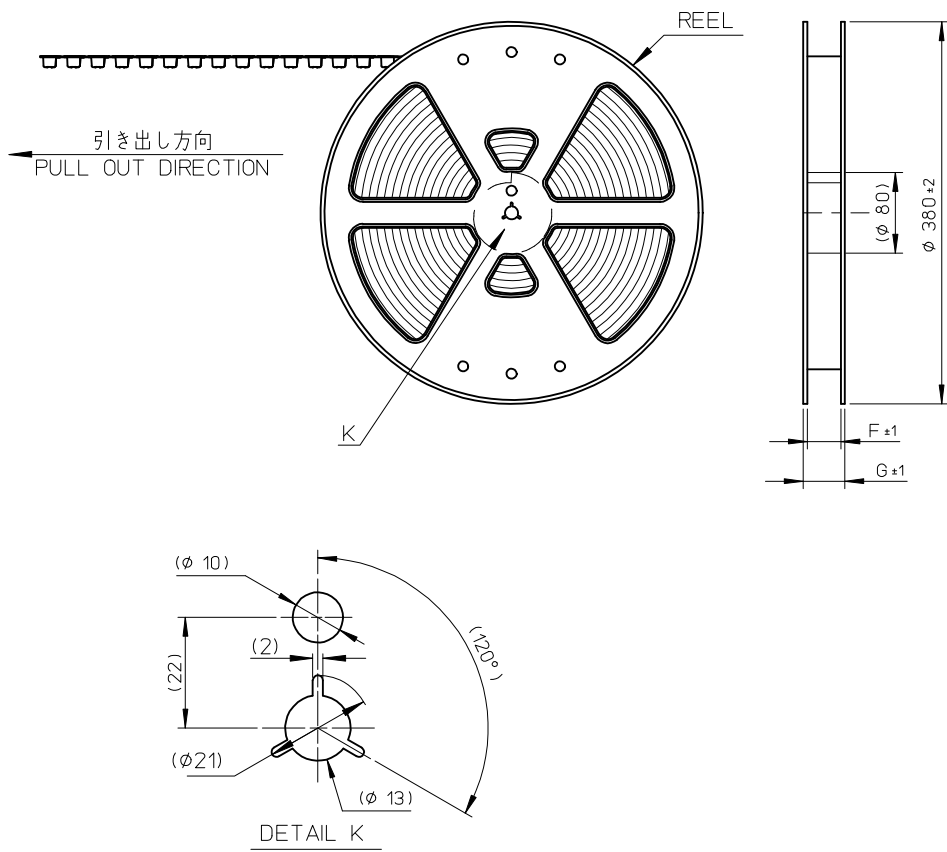
C

B

B

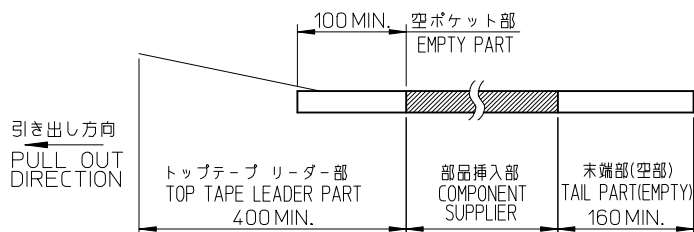
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## NOTES

- 製品詳細寸法については図面 SD-501951-003を参照下さい。  
FOR DIMENSIONS OF PRODUCT, REFER TO SD-501951-003.
- 梱包数量 : 2000個/リール  
NUMBER OF CONNECTORS : 2000PIECES/REEL
- リードテープ長さ  
LEAD TAPE LENGTH



## 4. 材料 MATERIAL

キャリアテープ : ポリプロピレン  
CARRIER TAPE : POLYPROPYLENE  
トップテープ : ポリエチレンテレフタレート, ポリエチレン  
TOP TAPE : POLYETHYLENE TEREPHTHALATE, POLYETHYLENE  
リール : ポリスチレン<リサイクル材を含む>  
REEL : POLYSTYRENE<RECYCLE MATERIAL CONTAINED>

## 5. ELV及びRoHS適合品 ELV AND RoHS COMPLIANT

|                                                                                                                   |                                                            |                                          |                                                                                                                                  |                            |            |                                                                      |                        |                           |  |  |                               |  |                     |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------|----------------------------------------------------------------------|------------------------|---------------------------|--|--|-------------------------------|--|---------------------|
| REVISED<br>EC NO: J2014-0085<br>DRAWN: KONDO 2013/07/17<br>CHKD: TAKAHASHI 2013/07/17<br>APPR: YNOGAWA 2013/07/17 | 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                                                                                                                            | TRSUZUKI                   | 2006/09/05 | TITLE<br>0.5 FPC CONN. HSG ASSY<br>E/O STRAIGHT EMBSTP PKG<br>(GOLD) |                        |                           |  |  |                               |  |                     |
|                                                                                                                   |                                                            | 10 OVER 30 UNDER                         | ± 0.25                                                                                                                           | CHECKED BY<br>HHIRATA      | 2006/09/05 |                                                                      |                        |                           |  |  |                               |  |                     |
|                                                                                                                   |                                                            | 30 OVER                                  | ± 0.3                                                                                                                            | APPROVED BY<br>MSASAO      | 2006/09/05 | molex                                                                |                        |                           |  |  |                               |  |                     |
|                                                                                                                   |                                                            | ANGULAR ±1 °                             |                                                                                                                                  | MATERIAL NO.<br>SEE CHART  |            |                                                                      |                        |                           |  |  | DOCUMENT NO.<br>SD-501951-004 |  | SHEET NO.<br>1 OF 2 |
|                                                                                                                   | 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 |                            |            |                                                                      |                        |                           |  |  |                               |  |                     |
|                                                                                                                   | REV                                                        |                                          |                                                                                                                                  |                            |            |                                                                      |                        |                           |  |  |                               |  |                     |

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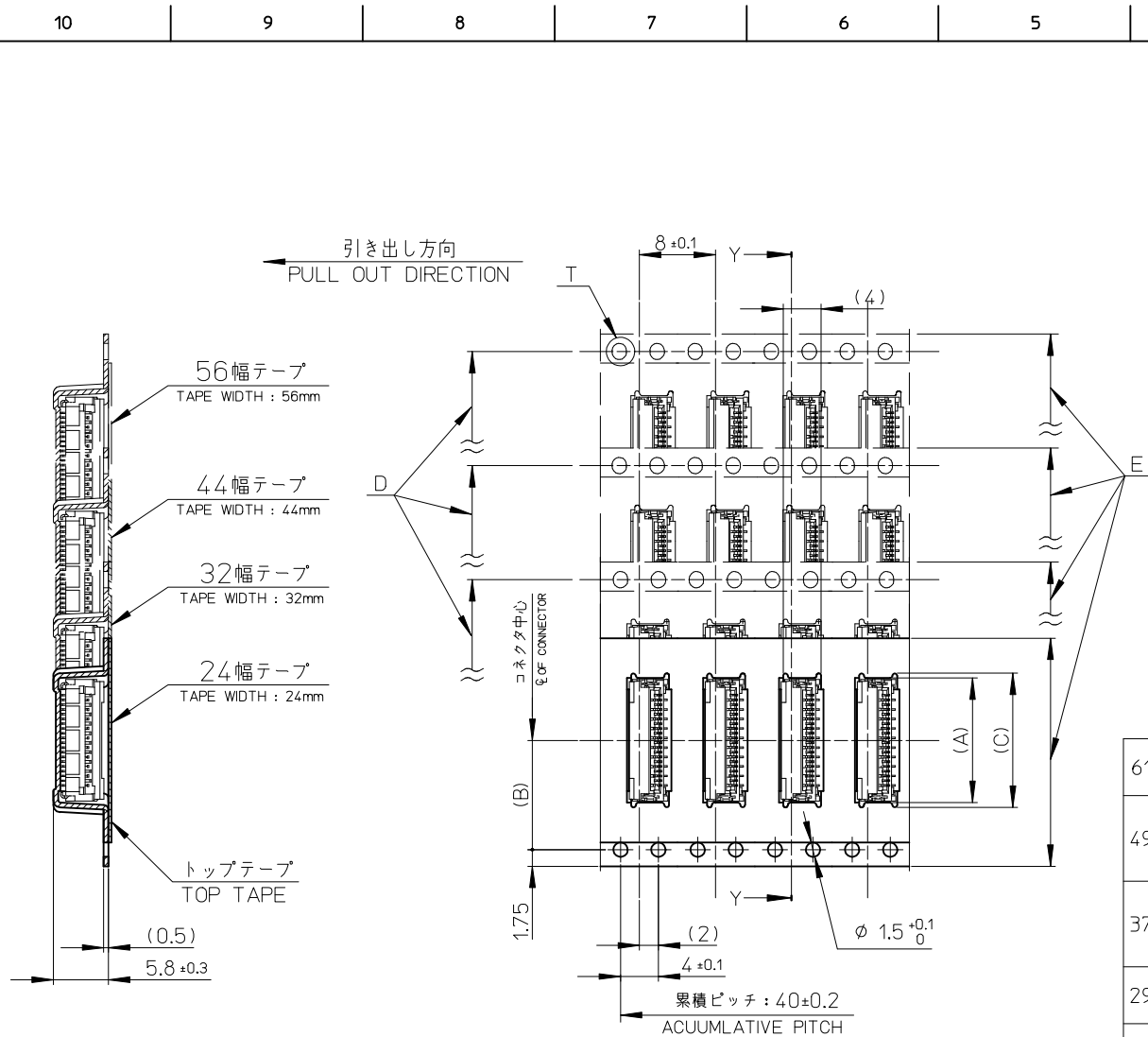
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断面 Y-Y  
SECTION Y-Y

|      |      |                                     |      |      |      |      |                      |                |
|------|------|-------------------------------------|------|------|------|------|----------------------|----------------|
| 61.4 | 57.4 | 56±0.3                              | 52.4 | 39.1 | 26.2 | 38.1 | 501951-7010          | 70             |
|      |      |                                     |      | 34.1 |      | 33.1 | 501951-6010          | 60             |
| 49.4 | 45.4 | 44±0.3                              | 40.4 | 29.1 | 20.2 | 28.1 | 501951-5010          | 50             |
|      |      |                                     |      | 26.6 |      | 25.6 | 501951-4510          | 45             |
|      |      |                                     |      | 24.1 |      | 23.1 | 501951-4010          | 40             |
| 37.4 | 33.4 | 32±0.3                              | 28.4 | 20.1 | 14.2 | 19.1 | 501951-3210          | 32             |
|      |      |                                     |      | 19.1 |      | 18.1 | 501951-3010          | 30             |
|      |      |                                     |      | 16.1 |      | 15.1 | 501951-2410          | 24             |
| 29.4 | 25.4 | 24±0.3                              | —    | 15.1 | 11.5 | 14.1 | 501951-2210          | 22             |
|      |      |                                     |      | 14.1 |      | 13.1 | 501951-2010          | 20             |
| G    | F    | E<br>キャリアテープ幅<br>CARRIER TAPE WIDTH | D    | (C)  | (B)  | (A)  | 製品番号<br>MATERIAL NO. | 極数<br>CIRCUITS |

|         |                   |            |            |                |            |              |            |                                                            |  |                                                                                                                                  |  |                                                                      |                        |                           |  |                     |  |
|---------|-------------------|------------|------------|----------------|------------|--------------|------------|------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|------------------------|---------------------------|--|---------------------|--|
| REVISED | EC NO: J2014-0085 | DRWN:KONDO | 2013/07/17 | CHKD:KATAHASHI | 2013/07/17 | APPR:YNOGAWA | 2013/07/17 | 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 FPC CONN. HSG ASSY<br>E/O STRAIGHT EMBSTP PKG<br>(GOLD) |                        |                           |  |                     |  |
|         |                   |            |            |                |            |              |            | 10 OVER 30 UNDER ±0.25                                     |  | CHECKED BY DATE                                                                                                                  |  |                                                                      |                        |                           |  |                     |  |
|         |                   |            |            |                |            |              |            | 30 OVER ±0.3                                               |  | APPROVED BY DATE                                                                                                                 |  |                                                                      |                        |                           |  |                     |  |
|         |                   |            |            |                |            |              |            | ANGULAR ±1 °                                               |  | MATERIAL NO.                                                                                                                     |  | DOCUMENT NO.<br>SD-501951-004                                        |                        |                           |  | SHEET NO.<br>2 OF 2 |  |
|         |                   |            |            |                |            |              |            | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | SEE CHART                                                                                                                        |  |                                                                      |                        |                           |  |                     |  |
|         |                   |            |            |                |            |              |            | SIZE<br>A3                                                 |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                                                                      |                        |                           |  |                     |  |