

F

E

D

C

B

A

F

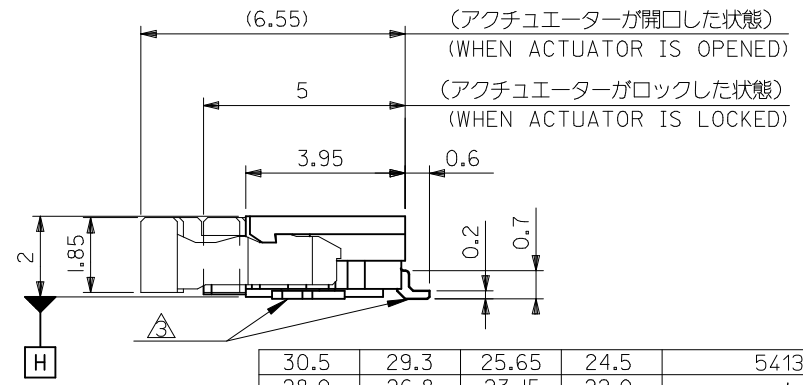
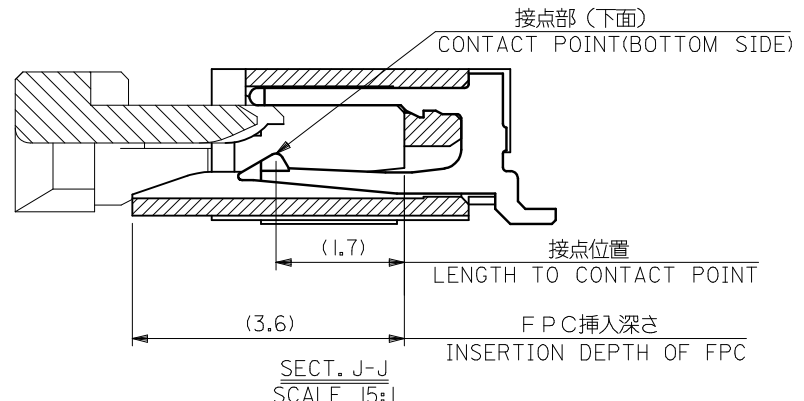
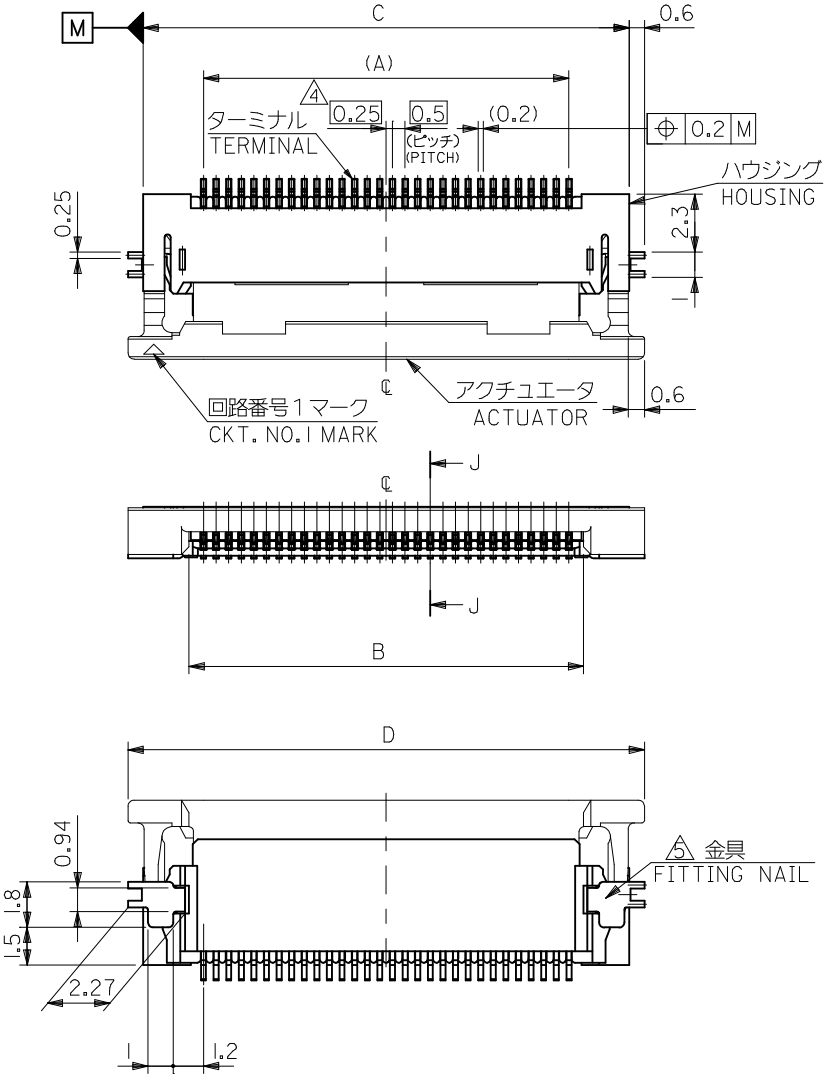
E

D

C

B

A



|      |      |       |      |                  |                |
|------|------|-------|------|------------------|----------------|
| 30.5 | 29.3 | 25.65 | 24.5 | 54132-5033       | 50             |
| 28.0 | 26.8 | 23.15 | 22.0 | -4533            | 45             |
| 27.0 | 25.8 | 22.15 | 21.0 | -4333            | 43             |
| 25.5 | 24.3 | 20.65 | 19.5 | -4033            | 40             |
| 24.5 | 23.3 | 19.65 | 18.5 | -3833            | 38             |
| 23.5 | 22.3 | 18.65 | 17.5 | -3633            | 36             |
| 23.0 | 21.8 | 18.15 | 17.0 | -3533            | 35             |
| 22.5 | 21.3 | 17.65 | 16.5 | -3433            | 34             |
| 22.0 | 20.8 | 17.15 | 16.0 | -3333            | 33             |
| 21.5 | 20.3 | 16.65 | 15.5 | -3233            | 32             |
| 20.5 | 19.3 | 15.65 | 14.5 | 54132-3033       | 30             |
| D    | C    | B     | A    | EMBOSSED PACKAGE | 極数             |
|      |      |       |      | オーダー番号           | ORDER No. CKT. |

REVISED

EC NO: J2014-0096

DRW: AISHII

CHKD: TAKAHASHI

APPR: YNOGAWA

A

DESCRIPTION

10 UNDER

10 OVER 30 UNDER

30 OVER

ANGULAR

DRAFT WHERE APPLICABLE

SIZE

A3

GENERAL TOLERANCES (UNLESS SPECIFIED)

±0.2

±0.25

±0.3

±3 °

MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY

AISHII

CHECKED BY

TAKAHASHI

APPROVED BY

KMORIKAWA

MATERIAL NO.

DATE

2012/09/03

2012/09/03

2013/04/16

CONNECTOR SERIES No.

54132-\*\*22

SCALE

METRIC

THIRD ANGLE PROJECTION

0.5MM FPC CONN ZIF R/A

HOUSING ASSY

(LOWER CONTACT)

molex

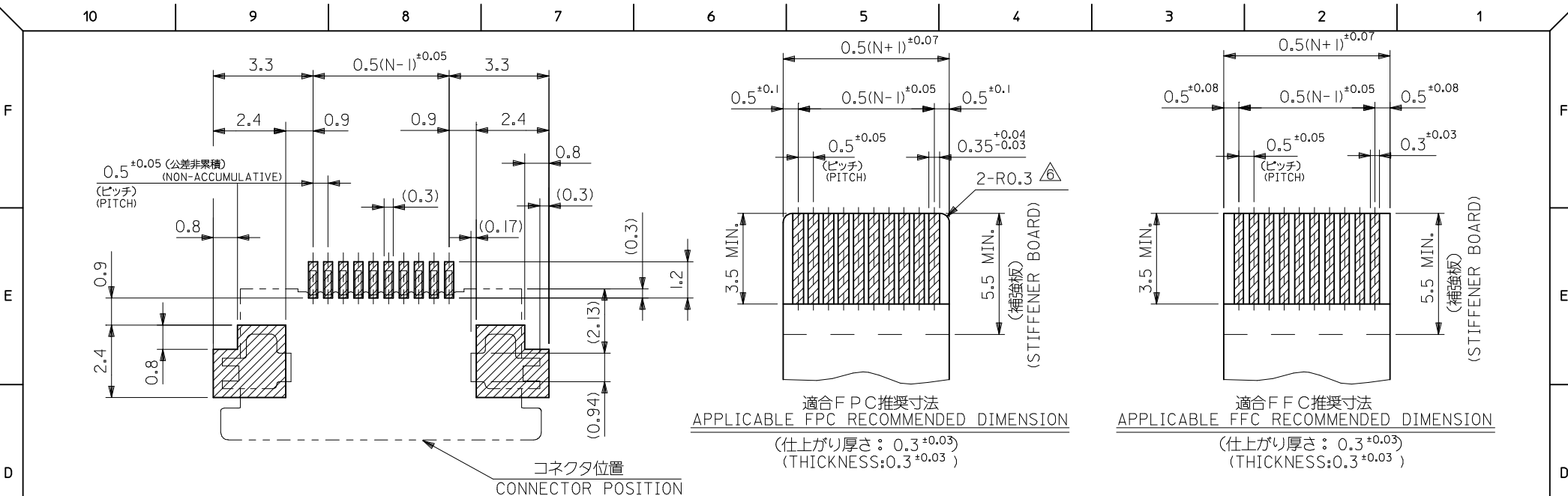
SD-54132-066

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DOCUMENT NO.

SHEET NO.

1 OF 2



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

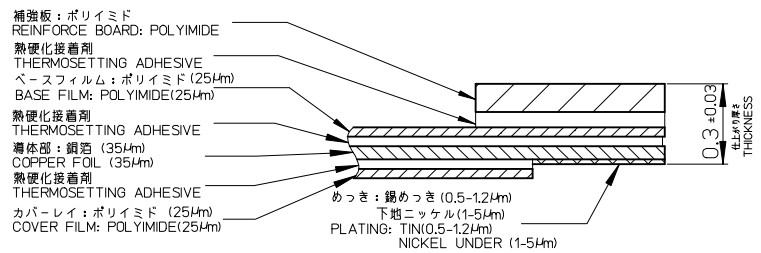
適合FPC推奨寸法  
APPLICABLE FPC RECOMMENDED DIMENSION  
(仕上がり厚さ: 0.3±0.03)  
(THICKNESS:0.3±0.03)

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

- 材質 MATERIAL  
ハウジング: ポリアミド(PA)、ガラス充填、ナチュラル(白)、UL94V-0  
HOUSING: POLYAMIDE, GLASS FILLED, NATURAL, UL94V-0  
アクチュエータ: ポニフェニレンサルファイド(PPS)、ガラス充填、黒色、UL94V-0  
ACTUATOR: POLYPHENYLENE SULFIDE, GLASS FILLED, BLACK, UL94V-0  
ターミナル: リン青銅 (t = 0.2)  
TERMINAL: PHOSPHOR BRONZE (t = 0.2)  
金具: リン青銅 (t = 0.2)  
NAIL: PHOSPHOR BRONZE (t = 0.2)
- めっき仕様 PLATING  
ターミナル TERMINAL  
鍍銀: ギスマめっき (1.0 μm以上)  
SILVER GILDING: SILVER (1.0 μm MIN.)  
下地: ニッケルめっき (1.0 μm以上)  
TIN SILVER BISMUTH PLATING (1.0 MICROMETER MINIMUM)  
UNDER PLATE: NICKEL PLATING (1.0 MICROMETER MINIMUM)  
金具  
鍍めっき (1.0 μm以上)  
下地: ニッケルめっき (1.0 μm以上)  
TIN PLATING (1.0 MICROMETER MINIMUM)  
UNDER PLATE: NICKEL PLATING (1.0 MICROMETER MINIMUM)

FPC/FFCについて ABOUT FPC/FFC  
打ち抜き方向は導体側から補強板面を推奨します。  
導体部については軟銅線35μmまたは50μmを推奨します。  
RECOMMENDED PUNCHING DIRECTION:  
FROM CONDUCTOR SIDE TO STIFFENER SIDE  
RECOMMENDED CONDUCTOR SPEC:  
SOFT COPPER FOIL  
RECOMMENDED CONDUCTOR THICKNESS:  
35 MICROMETER OR 50 MICROMETER  
FPCについて ABOUT FPC  
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25μm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。  
RECOMMENDED STIFFENER MATERIAL: POLYIMIDE  
RECOMMENDED BASE FILM THICKNESS: 25 MICROMETER  
RECOMMENDED ADHESIVE: THERMOSETTING ADHESIVE  
NOTE: PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON ADHEREND BECAUSE THERE IS A POSSIBILITY THAT THE EXTRA ADHESIVE CAUSES THE DEFECT IN ELECTRICAL CONTINUITY.



FPC構成推奨仕様  
STRUCTURE OF FPC

- ソルダーテ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 [ ] に対して上方向0.1MAXIMUM、下方向0.15MAXIMUMとする。  
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM [ ]  
UPPER DIRECTION: 0.1 MAXIMUM  
LOWER DIRECTION: 0.15 MAXIMUM.
- 偶数局に適用  
APPLY FOR EVEN CIRCUIT.
- パターンは、止り止め金具  
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.
- R0.3はFPCの導体にかからないこと  
R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.
- エンボスアープ幅は、アクチュエータがロックした状態とする  
IN THE PACKAGE, ACTUATOR SHOULD BE LOCKED.
- ELV及びRoHS適合品  
ELV AND RoHS COMPLIANT.

|                                                                                             |                                                            |                                          |              |                            |                                                                                                                                  |                                                                    |                        |                           |  |  |           |  |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|--------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------|---------------------------|--|--|-----------|--|
| SEE SHEET 1 OF 2<br>EC NO.: J2014-0096<br>DRAWN: AISHII<br>CHKD: KATAHASHI<br>APPR: YNOGAWA | 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>AISHII         | DATE<br>2012/09/03                                                                                                               | TITLE<br>0.5MM FPC CONN ZIF R/A<br>HOUSING ASSY<br>(LOWER CONTACT) |                        |                           |  |  |           |  |
|                                                                                             |                                                            | 10 OVER 30 UNDER                         | ±0.25        | CHECKED BY<br>KATAHASHI    | DATE<br>2012/09/03                                                                                                               |                                                                    |                        |                           |  |  |           |  |
|                                                                                             |                                                            | 30 OVER                                  | ±0.3         | APPROVED BY<br>KMORIKAWA   | DATE<br>2013/04/16                                                                                                               | molex                                                              |                        |                           |  |  |           |  |
|                                                                                             | ANGULAR ±3 °                                               |                                          | MATERIAL NO. |                            | DOCUMENT NO.                                                                                                                     |                                                                    |                        |                           |  |  | SHEET NO. |  |
|                                                                                             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE CHART    |                            | SD-54132-066                                                                                                                     |                                                                    |                        |                           |  |  | 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 |                                                                    |                        |                           |  |  |           |  |

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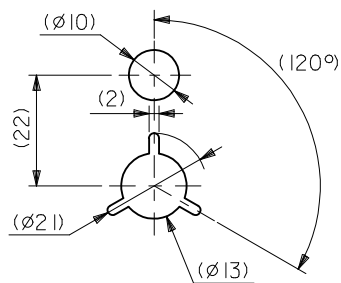
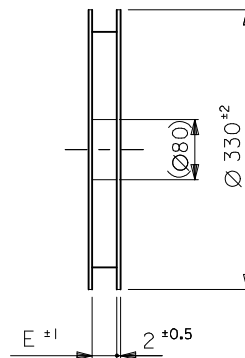
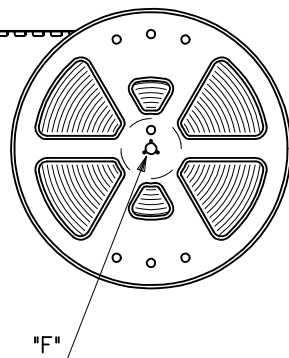
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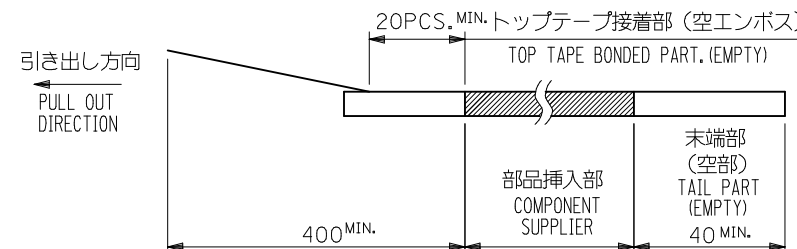
## NOTES

- 54132-\*\*22のアクチュエータはハウジング内に押し下げた状態とする。  
詳細寸法については図面SD-54132-066をご参照下さい。  
ACTUATOR OF PART NO. 54132-\*\*22 SHOULD BE LOCKED.  
BE DETAILED DIMENSIONS, SEE SD-54132-066.
- 梱包数量：1500個/リール  
NUMBER OF CONNECTORS : 1500 PCS/REEL
- リードテープ長さ  
LEAD TAPE LENGTH
- カバートープの剥離強度については、IEC60286-3に準拠  
COVER TAPE PEEL FORCE IS DEFINED BY IEC 60286-3.
- 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：PS  
TOP TAPE :PS  
リール：ポリスチレン  
REEL:POLYSTYLENE
- ELV及びRoHS適合品  
ELV AND RoHS COMPLIANT

引き出し方向  
PULL OUT  
DIRECTION



DETAIL "F"



|                                                                                                                                               |                                                            |                                          |           |                            |                                                                                                                                  |                                                                             |                        |                           |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|-----------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| RELEASED<br>EC NO: J2013-1133<br>2012/09/03<br>DRAWN: AISHII<br>2012/09/03<br>CHKD: KTAKAHASHI<br>2012/09/03<br>APPR: KMORIKAWA<br>2013/04/16 | 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>AISHII         | DATE<br>2012/09/03                                                                                                               | TITLE<br>EMBOSS TAPE PACKAGED FOR<br>0.5MM FPC CONN ZIF R/A<br>HOUSING ASSY |                        |                           |  |  |
|                                                                                                                                               |                                                            | 10 OVER 30 UNDER                         | ± ---     | CHECKED BY<br>KTAKAHASHI   | DATE<br>2012/09/03                                                                                                               |                                                                             |                        |                           |  |  |
|                                                                                                                                               |                                                            | 30 OVER                                  | ± ---     | APPROVED BY<br>KMORIKAWA   | DATE<br>2013/04/16                                                                                                               | DOCUMENT NO.<br>SD-54132-067                                                |                        |                           |  |  |
|                                                                                                                                               |                                                            | ANGULAR ± --- °                          |           | MATERIAL NO.               |                                                                                                                                  |                                                                             |                        |                           |  |  |
|                                                                                                                                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE CHART |                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                             |                        |                           |  |  |
| REV<br>0                                                                                                                                      |                                                            |                                          |           | SIZE<br>A3                 |                                                                                                                                  |                                                                             |                        |                           |  |  |

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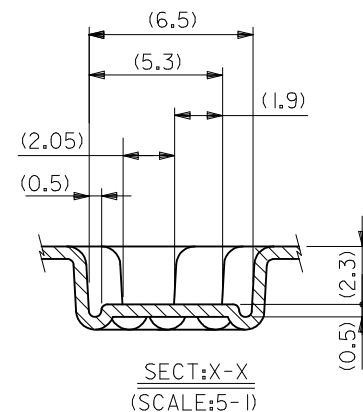
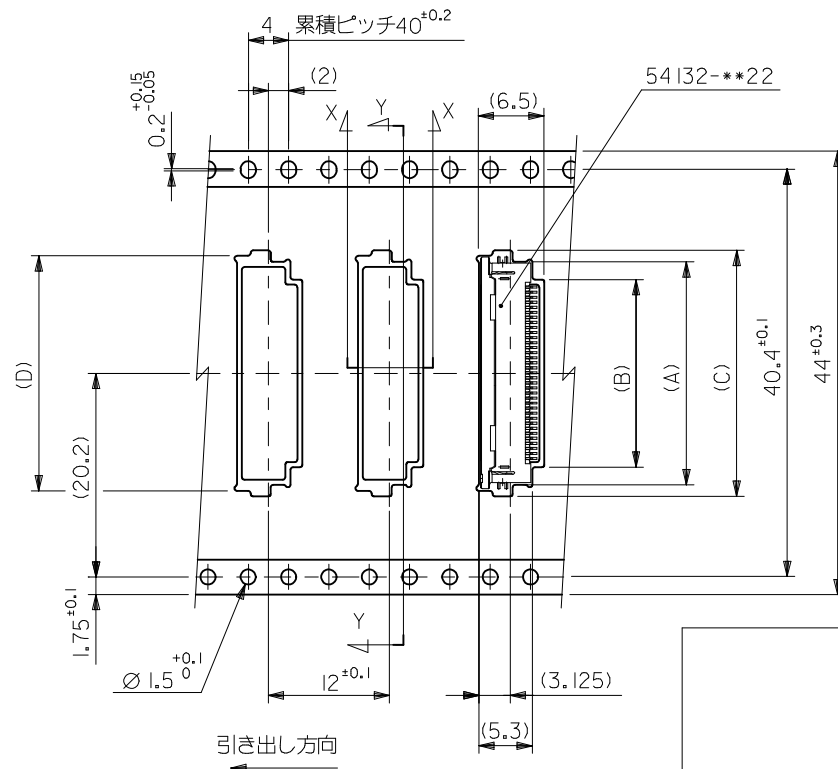
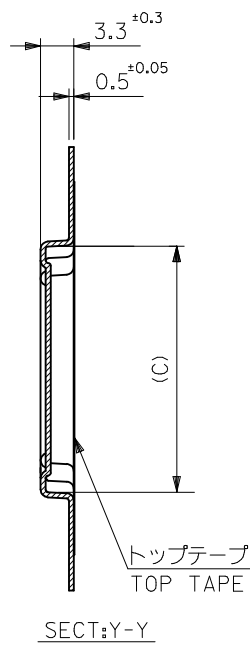
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|                                |      |      |      |      |      |                      |               |
|--------------------------------|------|------|------|------|------|----------------------|---------------|
| 44                             | 45.5 | 30.8 | 31.6 | 26.1 | 29.6 | 54132-5033           | 50            |
|                                |      | 28.3 | 29.4 | 23.6 | 27.1 | 4-4533               | 45            |
|                                |      | 27.3 | 28.4 | 22.6 | 26.1 | 4-4333               | 43            |
|                                |      | 25.8 | 26.9 | 21.1 | 24.6 | 4-4033               | 40            |
|                                |      | 24.8 | 25.9 | 20.1 | 23.6 | 4-3833               | 38            |
|                                |      | 23.8 | 24.9 | 19.1 | 22.6 | 4-3633               | 36            |
|                                |      | 23.3 | 24.4 | 18.6 | 22.1 | 4-3533               | 35            |
|                                |      | 22.8 | 23.9 | 18.1 | 21.6 | 4-3433               | 34            |
|                                |      | 22.3 | 23.4 | 17.6 | 21.1 | 4-3333               | 33            |
|                                |      | 21.8 | 22.9 | 17.1 | 20.6 | 4-3233               | 32            |
|                                |      | 20.8 | 21.9 | 16.1 | 19.6 | 54132-3033           | 30            |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | C    | B    | A    | 製品番号<br>MATERIAL No. | 極数<br>CIRCUIT |

|                                                                                                                                       |             |                                          |                                                                                                                                  |                            |            |                                                                                             |                        |                           |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------|---------------------------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| SEE SHEET 1 OF 2<br>EC NO: J2013-1133<br>DRWN: AISHII 2012/09/03<br>CHKD: TAKAHASHI 2012/09/03<br>APPR: KMORIKAWA 2013/04/16<br>REV 0 | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |                                                                                                                                  | DIMENSION STYLE<br>MM ONLY |            | SCALE<br>---                                                                                | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                                       |             | 10 UNDER                                 | ± ---                                                                                                                            | AISHII                     | 2012/09/03 | TITLE<br>EMBOSS TAPE PACKAGED FOR<br>0.5MM FPC CONN ZIF R/A<br>HOUSING ASSY<br><b>molex</b> |                        |                           |  |  |
|                                                                                                                                       |             | 10 OVER 30 UNDER                         | ± ---                                                                                                                            | TAKAHASHI                  | 2012/09/03 |                                                                                             |                        |                           |  |  |
|                                                                                                                                       |             | 30 OVER                                  | ± ---                                                                                                                            | KMORIKAWA                  | 2013/04/16 |                                                                                             |                        |                           |  |  |
|                                                                                                                                       |             | ANGULAR ± --- °                          |                                                                                                                                  | MATERIAL NO.               |            | DOCUMENT NO.                                                                                |                        | SHEET NO.                 |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                            |             | SEE CHART                                |                                                                                                                                  | SD-54132-067               |            | 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 |                            |            |                                                                                             |                        |                           |  |  |