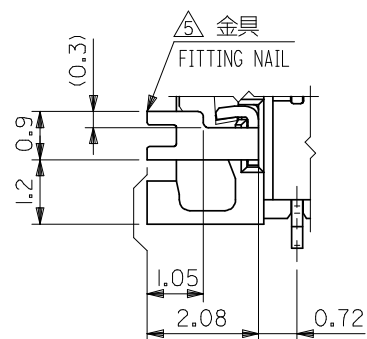
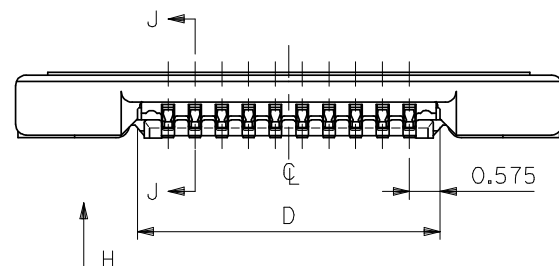
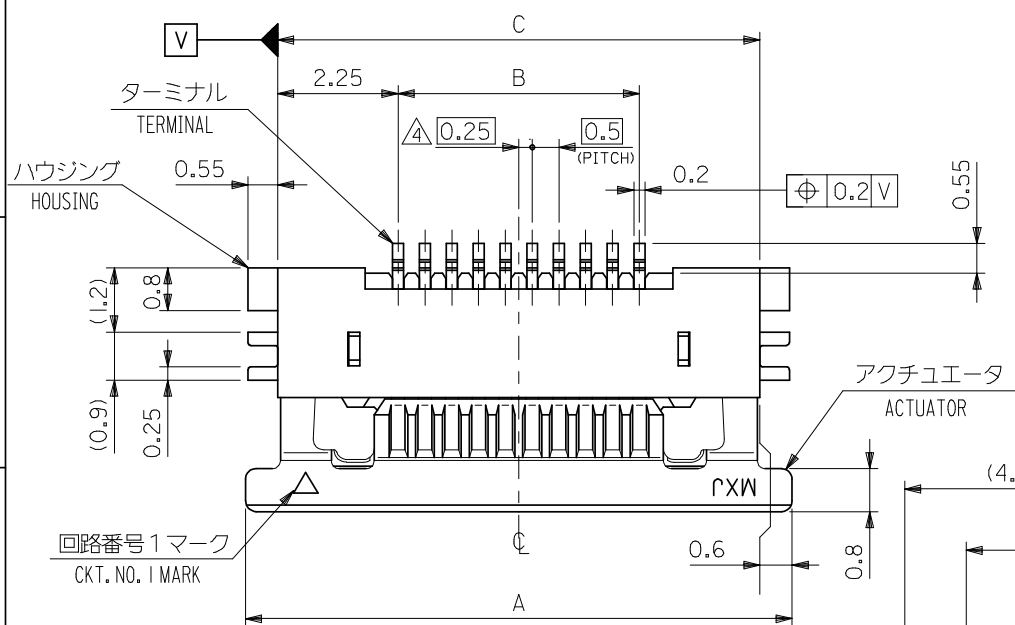
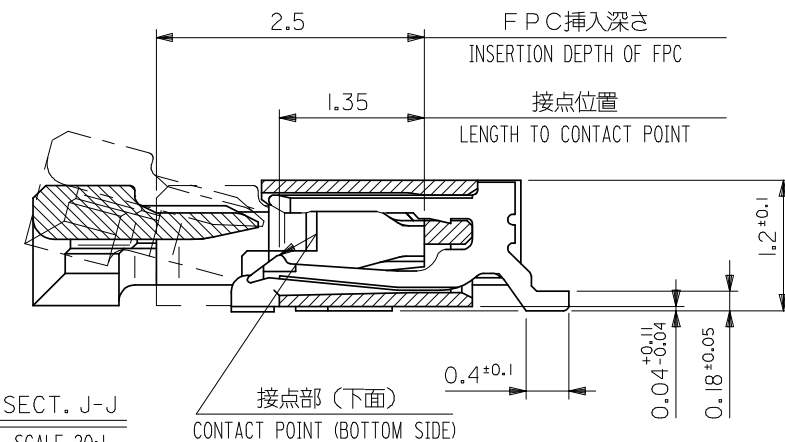




VIEW H



SECT. J-J  
SCALE 20:1

|                     |            |       |      |            |                 |              |             |    |
|---------------------|------------|-------|------|------------|-----------------|--------------|-------------|----|
| D)<br>i)<br>D)      | 0.28 ±0.03 | 13.65 | 17   | 12.5       | 18.2            | 54548-2670   | 54548-26 19 | 26 |
|                     | 0.3 ±0.03  | 12.65 | 16   | 11.5       | 17.2            | 54548-2470   | 54548-24 19 | 24 |
|                     |            | 11.65 | 15   | 10.5       | 16.2            | 54548-2270   | 54548-22 19 | 22 |
|                     |            | 11.15 | 14.5 | 10         | 15.7            | 54548-2170   | 54548-21 19 | 21 |
|                     |            | 10.65 | 14   | 9.5        | 15.2            | 54548-2070   | 54548-20 19 | 20 |
|                     |            | 10.15 | 13.5 | 9          | 14.7            | 54548-1970   | 54548-19 19 | 19 |
|                     |            | 9.65  | 13   | 8.5        | 14.2            | 54548-1870   | 54548-18 19 | 18 |
|                     |            | 9.15  | 12.5 | 8          | 13.7            | 54548-1770   | 54548-17 19 | 17 |
|                     |            | 8.65  | 12   | 7.5        | 13.2            | 54548-1670   | 54548-16 19 | 16 |
|                     |            | 8.15  | 11.5 | 7          | 12.7            | 54548-1570   | 54548-15 19 | 15 |
|                     |            | 7.65  | 11   | 6.5        | 12.2            | 54548-1470   | 54548-14 19 | 14 |
|                     |            | 7.15  | 10.5 | 6          | 11.7            | 54548-1370   | 54548-13 19 | 13 |
|                     |            | 6.65  | 10   | 5.5        | 11.2            | 54548-1270   | 54548-12 19 | 12 |
|                     |            | 6.15  | 9.5  | 5          | 10.7            | 54548-1170   | 54548-11 19 | 11 |
|                     |            | 5.65  | 9    | 4.5        | 10.2            | 54548-1070   | 54548-10 19 | 10 |
|                     |            | 5.15  | 8.5  | 4          | 9.7             | 54548-0970   | 54548-09 19 | 9  |
|                     |            | 4.65  | 8    | 3.5        | 9.2             | 54548-0870   | 54548-08 19 | 8  |
|                     |            | 4.15  | 7.5  | 3          | 8.7             | 54548-0770   | 54548-07 19 | 7  |
|                     |            | 3.65  | 7    | 2.5        | 8.2             | 54548-0670   | 54548-06 19 | 6  |
|                     |            | 3.15  | 6.5  | 2          | 7.7             | 54548-0570   | 54548-05 19 | 5  |
| 2.65                | 6.0        | 1.5   | 7.2  | 54548-0470 | 54548-04 19     | 4            |             |    |
| THICKNESS<br>OF FPC | D          | C     | B    | A          | EMBOSSD TAPE    | 製品番号         | 極数          |    |
|                     |            |       |      |            | ORDER No. オダー番号 | MATERIAL No. | CIRCUIT     |    |

|         |                   |                                              |                                                            |                                          |        |                            |                    |                                                                          |                        |                                                                                                                                  |  |
|---------|-------------------|----------------------------------------------|------------------------------------------------------------|------------------------------------------|--------|----------------------------|--------------------|--------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|
| REVISED | EC NO: J2008-4048 | DRWN:MMBEI<br>CH'KD:THARUYAMA<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>Y. WADA        | DATE<br>2004/01/09 | TITLE<br>0.5 FPC CONN ZIF HSG<br>ASSY FOR SMT RA BTM CONT<br>-LEAD FREE- |                        |                                                                                                                                  |  |
|         |                   |                                              |                                                            | 10 OVER 30 UNDER                         | ± 0.25 | CHECKED BY<br>M. SASAO     | DATE<br>2004/01/09 |                                                                          |                        |                                                                                                                                  |  |
|         |                   |                                              |                                                            | 30 OVER                                  | ± 0.3  | APPROVED BY<br>M. SASAO    | DATE<br>2004/01/09 | molex MOLEX INCORPORATED                                                 |                        |                                                                                                                                  |  |
|         |                   |                                              |                                                            | ANGULAR ±3 °                             |        | MATERIAL NO.               |                    |                                                                          |                        |                                                                                                                                  |  |
| REV     |                   |                                              | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | SEE TABLE                                |        | SD-54548-037               |                    | 1 OF 2                                                                   |                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |
|         |                   |                                              |                                                            | SIZE<br>A3                               |        |                            |                    |                                                                          |                        |                                                                                                                                  |  |

F

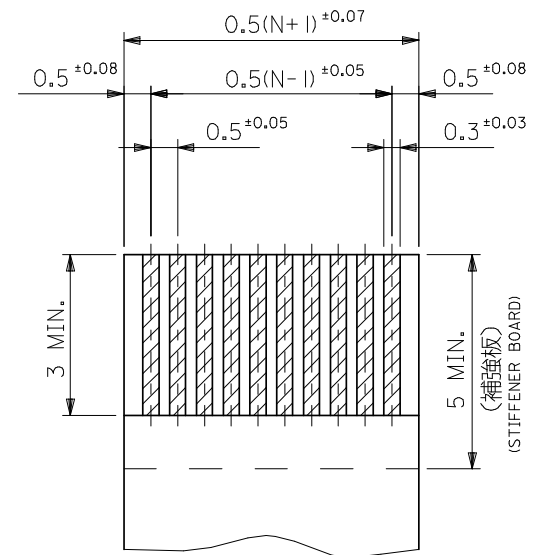
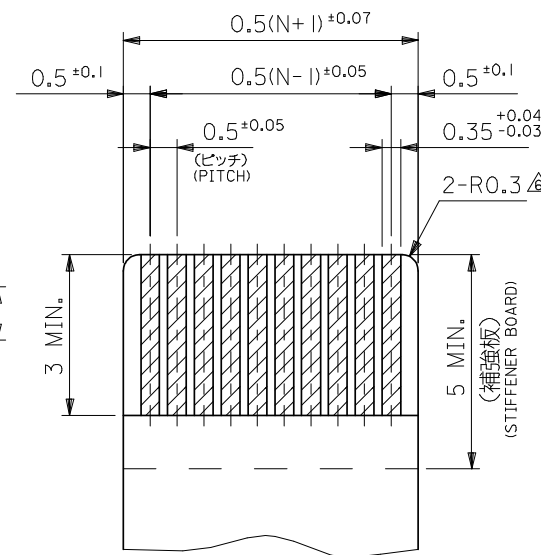
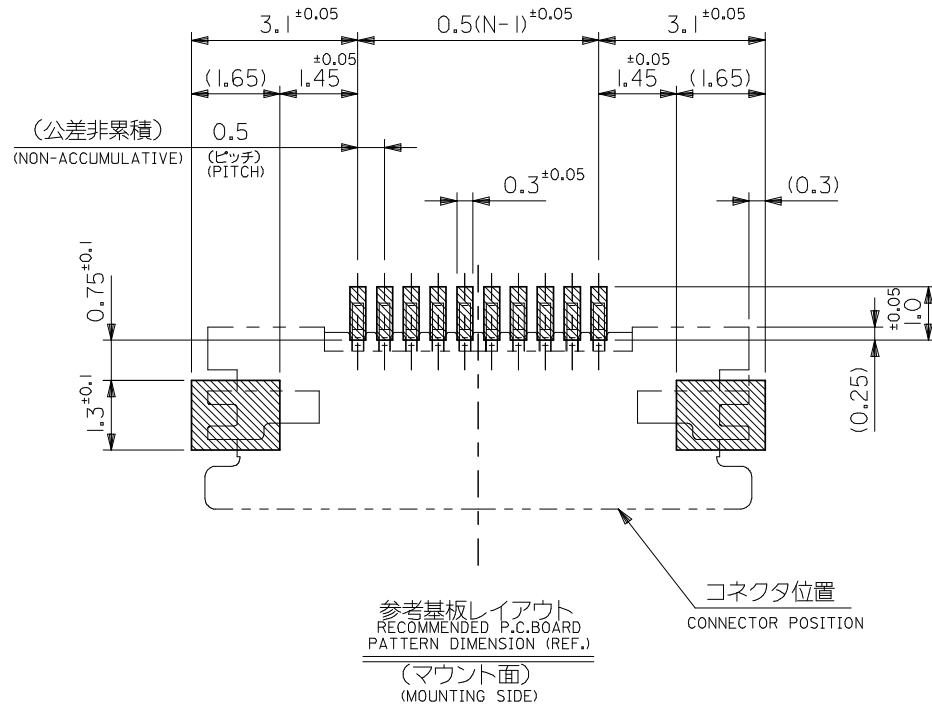
E

D

C

B

A



### 注記 NOTES

#### 1. 使用材料 MATERIAL

ハウジング : LCP, UL94V-0  
HOUSING

アクチュエータ : PPS, UL94V-0  
ACTUATOR

ターミナル : リン青銅 (t=0.2)、ニッケル下地 鍍ビスマスマッキ  
TERMINAL PHOSPHOR BRONZE, TIN-BISMUTH OVER NICKEL PLATING.

金具 : リン青銅 (t=0.2)、ニッケル下地 鍍メッキ  
FITTING NAIL PHOSPHOR BRONZE, PURE-TIN OVER NICKEL PLATING.

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.54548-\*\*-19 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 Z に対し上方向 0 MAX.、下方向 0.15 MAX. とし  
相互のバツキ量は 0.1 MAX. とする。  
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM Z  
UPPER DIRECTION: 0 MAX., LOWER DIRECTION: 0.15 MAX.  
OFFSET BETWEEN UPPER AND LOWER 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.

△ 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.

7. N: 極数 N: CIRCUIT.

#### FPC/FFC 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 μm または 50 μm を推奨します。

#### ABOUT FPC/FFC

RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.

RECOMMENDED CONDUCTOR SPEC :

THICKNESS OF SOFT COPPER FOIL : 35 MICROMETER OR 50 MICROMETER.

#### FPC について:

補強フィルム材質はポリイミドを推奨します。ベースフィルムは 25 μm 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 MATERIAL/THICKNESS.

STIFFENER FILM : POLYIMIDE

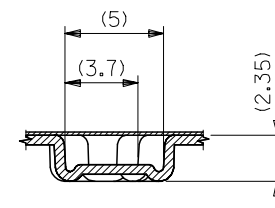
BASE FILM THICKNESS : 25 μm

BONDING AGENT : THERMOSETTING BONDING AGENT

PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON THE CONTACT AREA BECAUSE THE EXTRA ADHESIVE MAY CAUSE THE DEFECT IN ELECTRICAL CONTINUITY.

|                                                                                                                       |                                                            |                                                                                                                                  |              |                            |                    |                                                                          |                        |                           |  |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------|--------------------|--------------------------------------------------------------------------|------------------------|---------------------------|--|
| REVISED<br>EC NO: J2008-4048<br>2008/06/13<br>DRWN:WABEI<br>2008/06/16<br>CHKD:THARUYAMA<br>2008/06/16<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>Y. WADA        | DATE<br>2004/01/09 | TITLE<br>0.5 FPC CONN ZIF HSG<br>ASSY FOR SMT RA BTM CONT<br>-LEAD FREE- |                        |                           |  |
|                                                                                                                       |                                                            | 10 OVER 30 UNDER                                                                                                                 | ±0.25        | CHECKED BY<br>M. SASAO     | DATE<br>2004/01/09 |                                                                          |                        |                           |  |
|                                                                                                                       |                                                            | 30 OVER                                                                                                                          | ±0.3         | APPROVED BY<br>M. SASAO    | DATE<br>2004/01/09 | MOLEX MOLEX INCORPORATED                                                 |                        |                           |  |
|                                                                                                                       |                                                            | ANGULAR ±3 °                                                                                                                     | MATERIAL NO. |                            | DOCUMENT NO.       |                                                                          | SHEET NO.              |                           |  |
|                                                                                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | SEE SHEET 1                                                                                                                      |              | SD-54548-037               |                    | 2 OF 2                                                                   |                        |                           |  |
|                                                                                                                       | REV                                                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                            |                    |                                                                          |                        |                           |  |





SECT. X-X

|                                |      |      |     |     |     |                      |               |
|--------------------------------|------|------|-----|-----|-----|----------------------|---------------|
| 16                             | 21.4 | 17.4 | 4.3 | 8.4 | 9.5 | 54548-0670           | 6             |
|                                |      |      | 3.8 | 7.9 | 9   | 54548-0570           | 5             |
|                                |      |      | 3.3 | 7.4 | 8.5 | 54548-0470           | 4             |
| 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 |

|         |                                                                     |                                        |             |                                                            |        |                            |                                                                                                                               |                                                                     |                        |                                                                                                                 |           |
|---------|---------------------------------------------------------------------|----------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|-----------|
| REVISED | EC NO: J2005-2516<br>DRAWN: WABEI<br>CHKD: KATOYODA<br>APPR: NUKITA | 2005/02/28<br>2005/02/28<br>2005/03/07 | 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>Y. WADA        | DATE<br>2004/01/09                                                                                                            | TITLE<br>EMBSTP PKG FOR 0.5 FPC<br>CONN ZIF HSG ASSY<br>-LEAD FREE- |                        |                                                                                                                 |           |
|         |                                                                     |                                        |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>M. SASAO     | DATE<br>2004/01/09                                                                                                            |                                                                     |                        |                                                                                                                 |           |
|         |                                                                     |                                        |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>M. SASAO    | DATE<br>2004/01/09                                                                                                            |                                                                     |                        |                                                                                                                 |           |
|         |                                                                     |                                        |             | ANGULAR ±3 °                                               |        | MATERIAL NO.               |                                                                                                                               |                                                                     | DOCUMENT NO.           |                                                                                                                 | SHEET NO. |
|         |                                                                     |                                        |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE CHART                  |                                                                                                                               | SD-54548-038                                                        |                        |                                                                                                                 | 2 OF 4    |
| REV     |                                                                     |                                        |             |                                                            |        | SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                     |                        |                                                                                                                 |           |

F

E

D

C

B

A

F

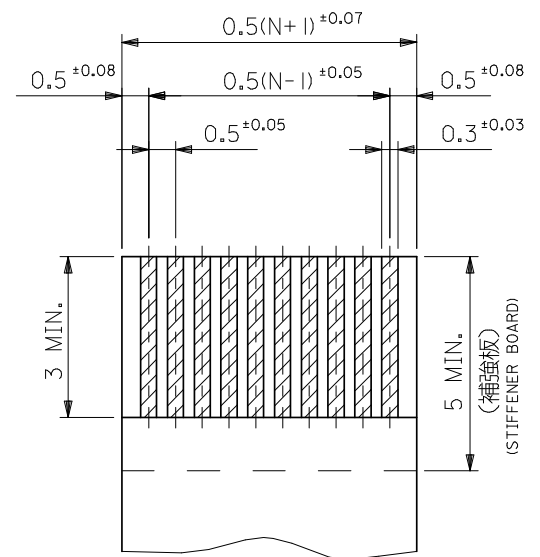
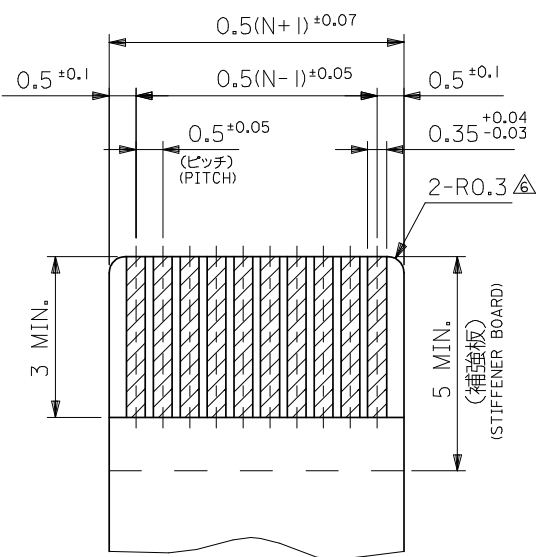
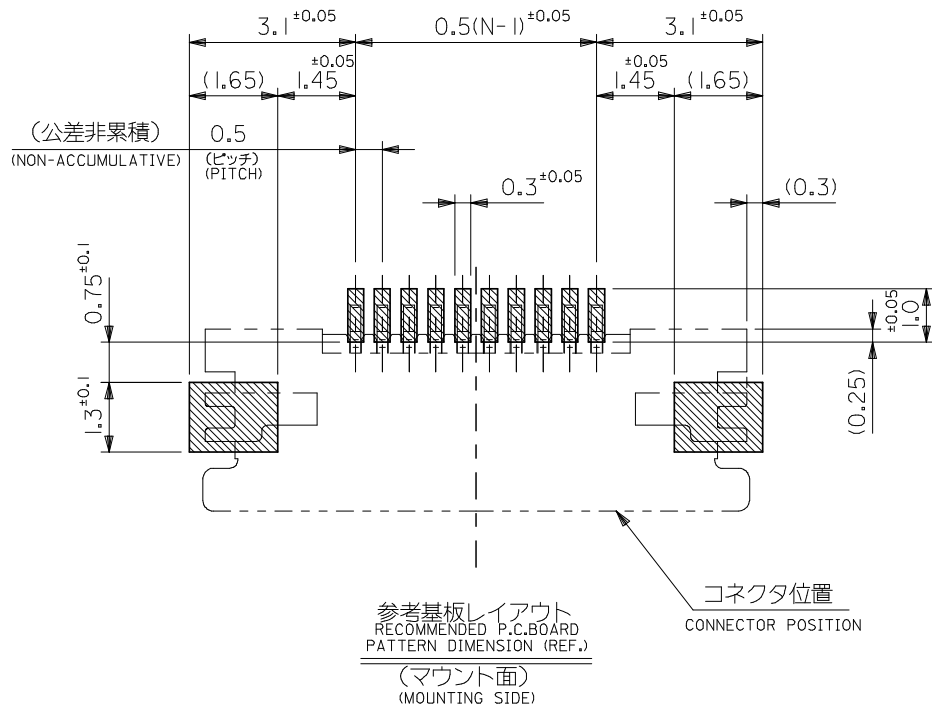
E

D

C

B

A



適合FPC推奨寸法  
APPLICABLE FPC  
RECOMMENDED DIMENSION  
(仕上がり厚さ: 表参照)  
(THICKNESS: SEE CHART)

適合FFC推奨寸法  
APPLICABLE FFC  
RECOMMENDED DIMENSION  
(仕上がり厚さ: 表参照)  
(THICKNESS: SEE CHART)

### 注記 NOTES

#### I. 使用材料 MATERIAL

ハウジング : LCP, UL94V-0  
ハウジング  
アクチュエータ : PPS, UL94V-0  
アクチュエータ  
ターミナル : リン青銅 (t=0.2)  
ターミナル  
メッキ : リン青銅、鍍メッキ (t=0.2)  
メッキ  
接点部 : 金メッキ  
CONTACT PORTION : GOLD PLATING  
テール部 : 鍍メッキ  
SOLDERING PORTION : TIN OVER PLATING  
下地 : ニッケルメッキ  
UNDER PLATING: NICKEL PLATING  
金具 : リン青銅、鍍メッキ (t=0.2)  
FITTING NAIL : PHOSPOR BRONZE, TIN PLATING  
下地 : ニッケルメッキ  
UNDER PLATING: NICKEL PLATING

パターンはくり止め用金具  
FITTING NAIL FOR PREVENTION OF PEELING  
OF P.C.B. PATTERN.  
R0.3はFPC導体部に干渉しないこと  
R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.  
7. 本製品は54548-\*\*-21の鉛フリー(部分金メッキ)品である。  
THIS PRODUCT IS LEAD FREE OF 54548-\*\*-21 (SELECTIVE GOLD).  
8. N: 極数 N: CIRCUIT.

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. 54548-\*\*-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 Z  
に対し上方向 0 MAX.、下方向 0.15 MAX. とし  
相互のバツキ量は 0.1 MAX. とする。  
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM Z  
UPPER DIRECTION: 0 MAX., LOWER DIRECTION: 0.15 MAX.  
OFFSET BETWEEN UPPER AND LOWER 0.1 MAX.  
偶数極に適用。  
APPLY FOR EVEN CIRCUIT.

#### FPC/FFC 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35μmまたは50μmを推奨します。

#### ABOUT FPC/FFC

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

#### FPC について:

補強フィルム材質はポリイミドを推奨します。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。

#### ABOUT FPC

RECOMMENDED MATERIAL/THICKNESS.  
STIFFENER FILM : POLYIMIDE  
BASE FILM THICKNESS : 25μm  
BONDING AGENT : THERMOSETTING BONDING AGENT  
PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON THE CONTACT  
AREA BECAUSE THE EXTRA ADHESIVE MAY CAUSE THE DEFECT IN  
ELECTRICAL CONTINUITY.

|                                                            |  |                   |            |             |            |                 |            |              |             |                  |                                       |        |                            |                                                                                                                                  |              |                        |                          |                                                                 |  |
|------------------------------------------------------------|--|-------------------|------------|-------------|------------|-----------------|------------|--------------|-------------|------------------|---------------------------------------|--------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|--------------------------|-----------------------------------------------------------------|--|
| REVISED                                                    |  | EC NO: J2008-4048 | 2008/06/13 | DRWN: WABEI | 2008/06/16 | CHKD: THARUYAMA | 2008/06/16 | APPR: NUKITA | DESCRIPTION |                  | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>--- | DESIGN UNITS<br>METRIC | MODEL No.<br>54548-**-29 | THIRD ANGLE<br>PROJECTION                                       |  |
| 10 UNDER                                                   |  | ±0.2              |            | DRAWN BY    |            | DATE            |            | TITLE        |             | 10 OVER 30 UNDER |                                       | ±0.25  |                            | HSHIMABUKURO                                                                                                                     |              | '04/02/10              |                          | 0.5 FPC CONN ZIF HSG<br>ASSY FOR SMT RA BTM CONT<br>-LEAD FREE- |  |
| 30 OVER                                                    |  | ±0.3              |            | CHECKED BY  |            | DATE            |            | APPROVED BY  |             | ANGULAR          |                                       | ±3 °   |                            | KTOJO                                                                                                                            |              | '04/02/10              |                          | MOLEX INCORPORATED                                              |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | MATERIAL NO.      |            | SEE SHEET 1 |            | DOCUMENT NO.    |            | SD-54548-039 |             | SHEET NO.        |                                       | 2 OF 2 |                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |                          |                                                                 |  |

