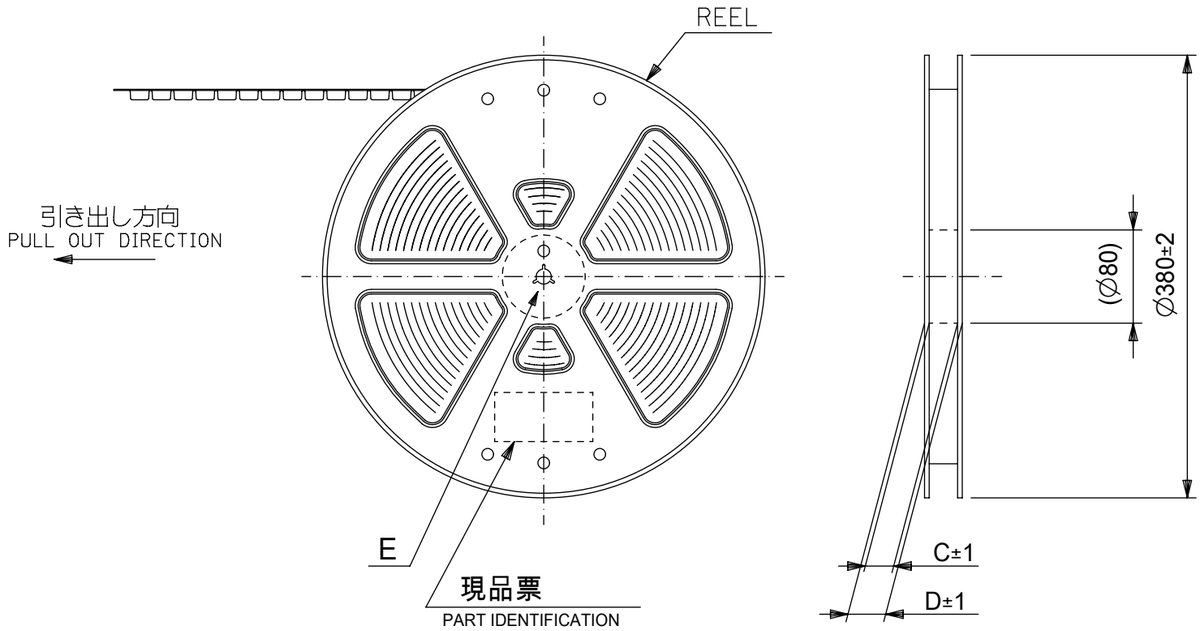
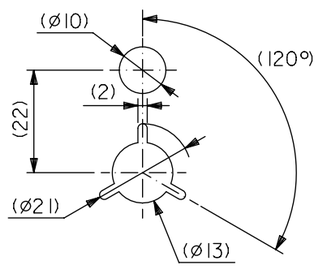
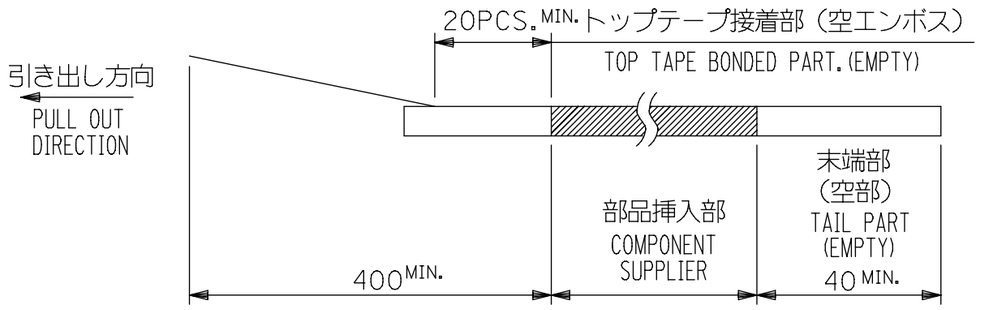


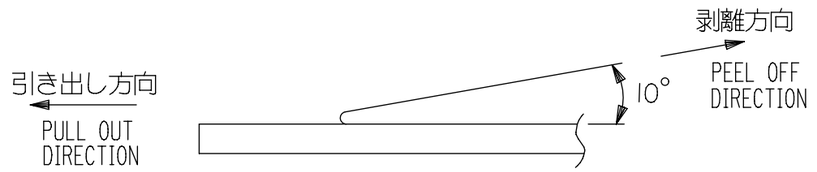

DETAIL E

NOTES

1. 製品詳細寸法については図面 512811000-SD を参照下さい。
   RE DETAILED DIMENSION, SEE 512811000-SD
2. 梱包数量：３０００個／リール
   NUMBER OF CONNECTORS ：3000PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH




4. トップテープの剥離強度：0.1N～1.3N {10gf～130gf}
   （剥離方向は下図参照）
   尚、本規格値は出荷時に適用。（但し、輸送時に剥離が発生しないこと。）
   PEELING OFF FORCE OF TOP TAPE ：0.1N～1.3N {10gf～130gf}
   (PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
   THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
   PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.




5. 材料（MATERIAL）
   キャリアテープ(CARRIER TAPE)：ポリプロピレン(POLYPROPYLENE)
   トップテープ(TOPTAPE)：PET , PE , PEF
   リール(REEL)：ポリスチレン(PS)〈リサイクル材含む〉
   POLYSTYREN (PS)<RECYCLE MATERIAL CONTAINED>
6. C,D 寸法は SHEET 2 ～ 3 を参照下さい。
   SEE SHEET 2 ～ 3 (DIMENSION C,D ).

| | | | |
|---|---|---|---|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2022/05/30 07:47:18 |

FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01

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| | |
|---|---|
| DIMENSION UNITS | mm |
| SCALE | NTS |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | |
| ANGULAR TOL | ± 3.0 ° |
| 4 PLACES | ± 0.2 |
| 3 PLACES | ± 0.2 |
| 2 PLACES | ± 0.2 |
| 1 PLACE | ± 0.2 |
| 0 PLACES | ± 0.2 |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | |

CURRENT REV DESC:

EC NO: 708402
DRWN: NARENC 2022/05/27
CHK'D: SMARUYAMA 2022/05/30
APPR: YNAITO 2022/05/30

INITIAL REVISION:
DRWN: NARENC 2022/05/16
APPR: YNAITO 2022/05/30

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 51281

molex

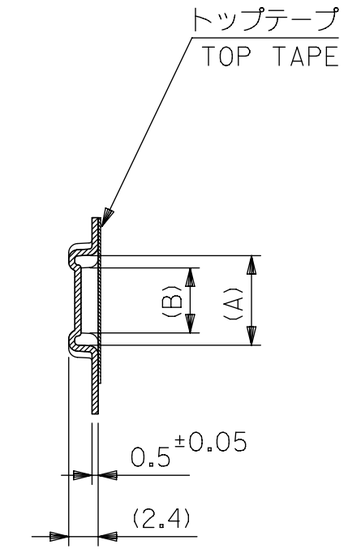
0.5 FPC CONN NON-ZIF
(HGT=1.2MM) EMBSTP PKG

PRODUCT CUSTOMER DRAWING

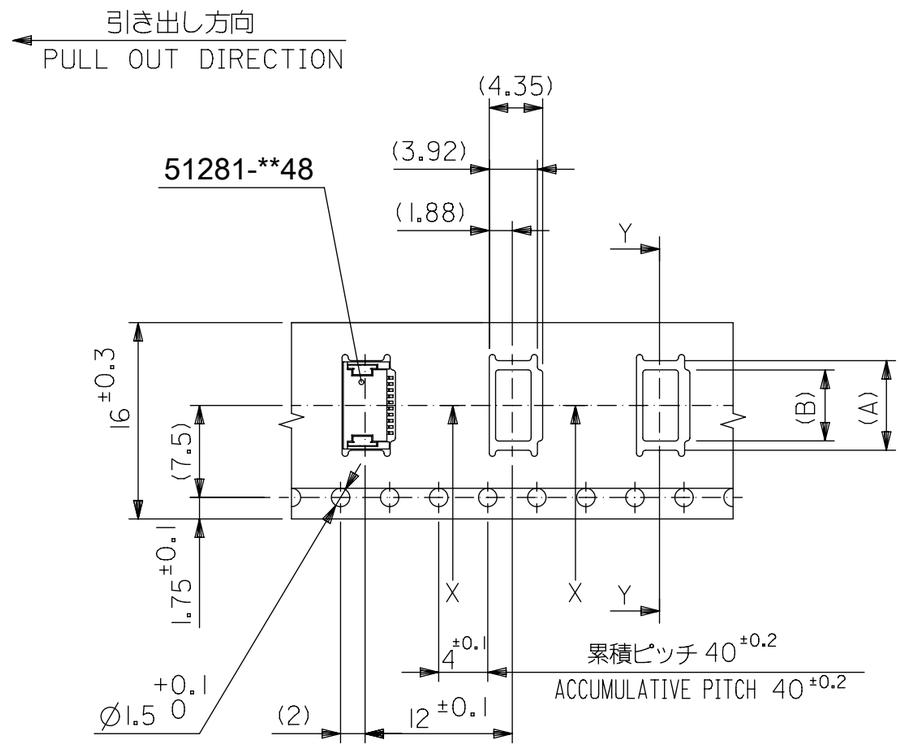
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| 512810000-SD | PSD | 000 | A |

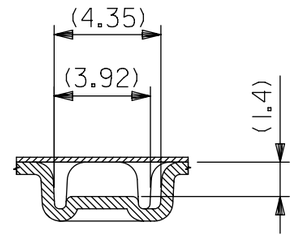
| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE SHEET 2 TO 4 | GENERAL MARKET | 1 OF 4 |

CONFIDENTIAL




SECT. Y-Y




SECT. X-X

16mm WIDTH CARRIER TAPE

| キャリアテープ幅 CARRIER TAPE WIDTH | D | C | (B) | (A) | 製品番号 MATERIAL No. | 極数 CIRCUIT |
|---|---|---|---|---|---|---|
| 16 | 21.4 | 17.4 | 4.3 | 6.3 | 51281-0898 | 8 |
| | | | 3.8 | 5.8 | 51281-0798 | 7 |
| | | | 3.3 | 5.3 | 51281-0698 | 6 |
| | | | 2.8 | 4.8 | 51281-0598 | 5 |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | | |
|---|---|---|
| ANGULAR TOL | ± | 3.0 ° |
| 4 PLACES | ± | 0.2 |
| 3 PLACES | ± | 0.2 |
| 2 PLACES | ± | 0.2 |
| 1 PLACE | ± | 0.2 |
| 0 PLACES | ± | 0.2 |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 708402
DRWN: NARENC 2022/05/27
CHK'D: SMARUYAMA 2022/05/30
APPR: YNAITO 2022/05/30

INITIAL REVISION:
DRWN: NARENC 2022/05/16
APPR: YNAITO 2022/05/30

molex

0.5 FPC CONN NON-ZIF
(HGT=1.2MM) EMBSTP PKG

PRODUCT CUSTOMER DRAWING

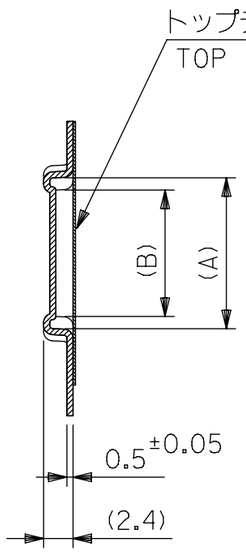
| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 512810000-SD | PSD | 000 | A |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 51281 | SEE TABLE | GENERAL MARKET | 2 OF 4 |

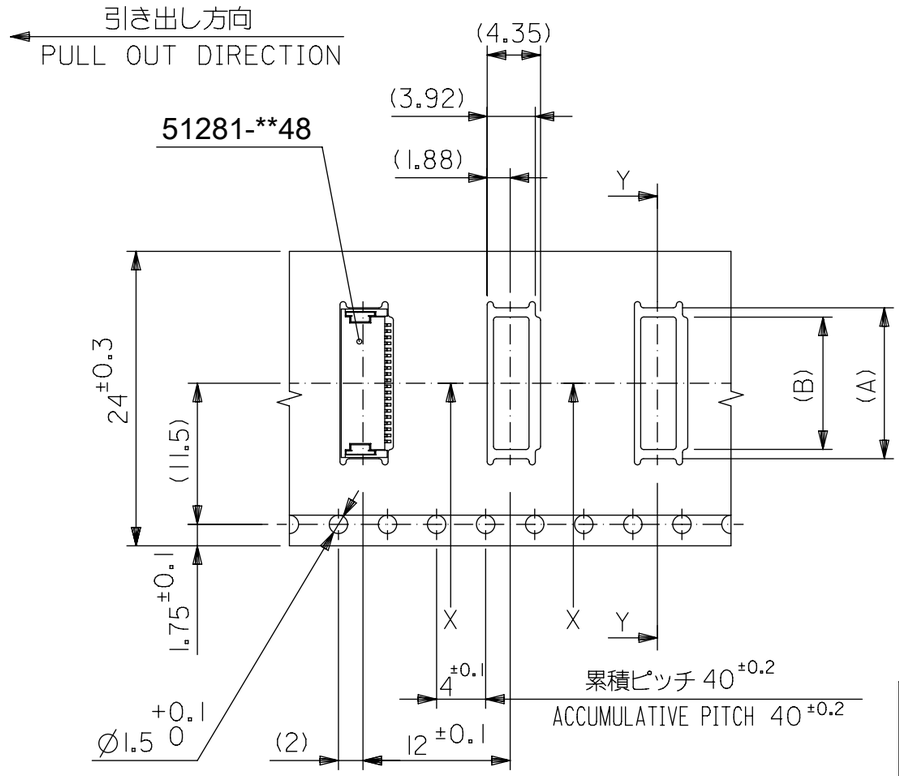
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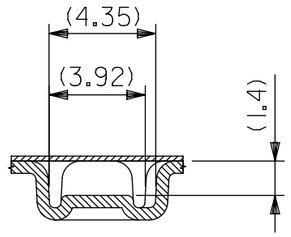
FORMAT: master-ib-prod-A3
REVISION: J1
DATE: 2021/05/01

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SECT. Y-Y




SECT. X-X

24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

| キャリアテープ幅 CARRIER TAPE WIDTH | D | C | (B) | (A) | 製品番号 MATERIAL No. | 極数 CIRCUIT |
|---|---|---|---|---|---|---|
| 24 | 29.4 | 25.4 | 12.3 | 14.3 | 51281-2498 | 24 |
| | | | 11.3 | 13.3 | 51281-2298 | 22 |
| | | | 10.3 | 12.3 | 51281-2098 | 20 |
| | | | 9.3 | 11.3 | 51281-1898 | 18 |
| | | | 8.3 | 10.3 | 51281-1698 | 16 |
| | | | 7.3 | 9.3 | 51281-1498 | 14 |
| | | | 6.3 | 8.3 | 51281-1298 | 12 |
| | | | 5.8 | 7.8 | 51281-1198 | 11 |
| | | | 5.3 | 7.3 | 51281-1098 | 10 |
| | | | 4.8 | 6.8 | 51281-0998 | 9 |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | | |
|---|---|---|
| ANGULAR TOL | ± | 3.0 ° |
| 4 PLACES | ± | 0.2 |
| 3 PLACES | ± | 0.2 |
| 2 PLACES | ± | 0.2 |
| 1 PLACE | ± | 0.2 |
| 0 PLACES | ± | 0.2 |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 708402
DRWN: NARENC 2022/05/27
CHK'D: SMARUYAMA 2022/05/30
APPR: YNAITO 2022/05/30

INITIAL REVISION:
DRWN: NARENC 2022/05/16
APPR: YNAITO 2022/05/30

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 51281

molex

0.5 FPC CONN NON-ZIF
(HGT=1.2MM) EMBSTP PKG

PRODUCT CUSTOMER DRAWING

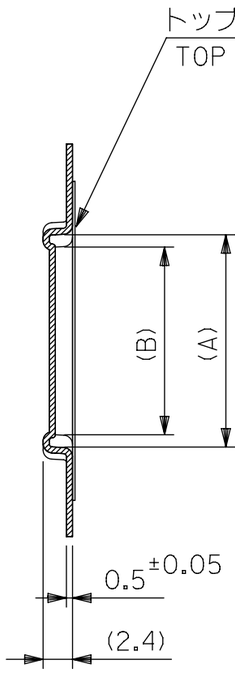
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|---|---|---|---|
| 512810000-SD | PSD | 000 | A |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE TABLE | GENERAL MARKET | 3 OF 4 |

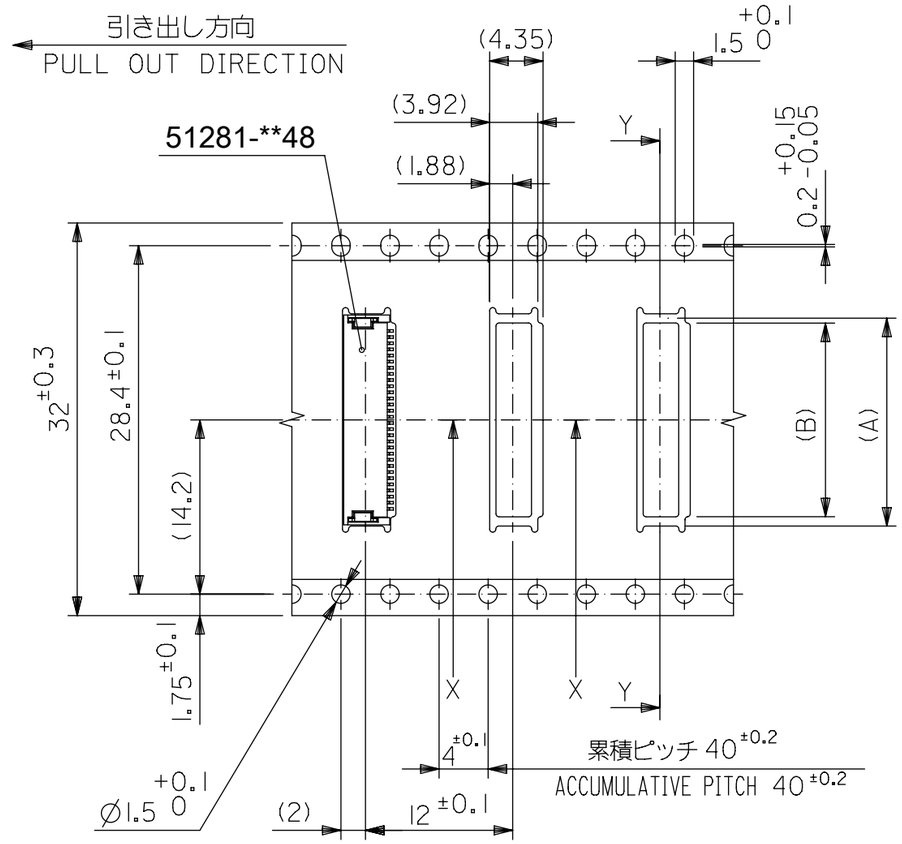
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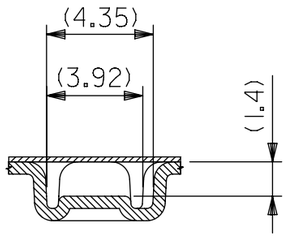
FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01

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SECT. Y-Y




SECT. X-X

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

| 32 | 37.4 | 33.4 | 13.3 | 15.3 | 51281-2698 | 26 |
|---|---|---|---|---|---|---|
| キャリアテープ幅 CARRIER TAPE WIDTH | D | C | (B) | (A) | 製品番号 MATERIAL No. | 極数 CIRCUIT |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | | |
|---|---|---|
| ANGULAR TOL | ± | 3.0 ° |
| 4 PLACES | ± | 0.2 |
| 3 PLACES | ± | 0.2 |
| 2 PLACES | ± | 0.2 |
| 1 PLACE | ± | 0.2 |
| 0 PLACES | ± | 0.2 |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 708402
DRWN: NARENC 2022/05/27
CHK'D: SMARUYAMA 2022/05/30
APPR: YNAITO 2022/05/30

INITIAL REVISION:
DRWN: NARENC 2022/05/16
APPR: YNAITO 2022/05/30

molex

0.5 FPC CONN NON-ZIF
(HGT=1.2MM) EMBSTP PKG

PRODUCT CUSTOMER DRAWING

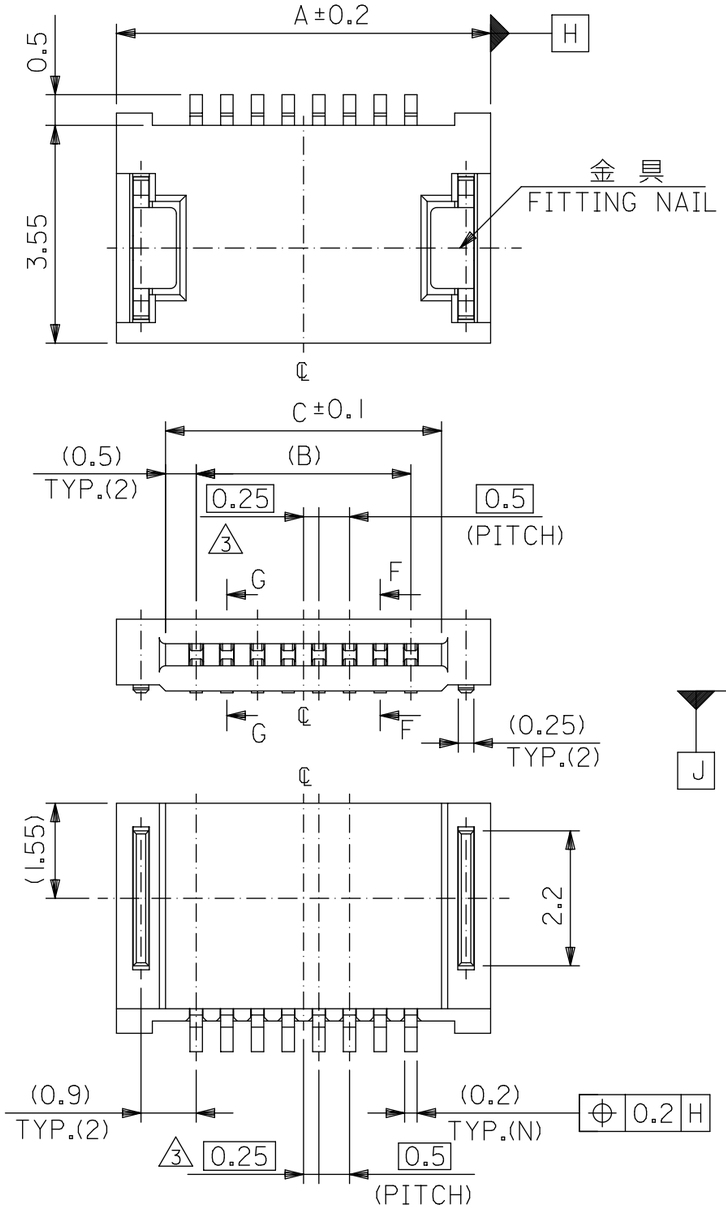
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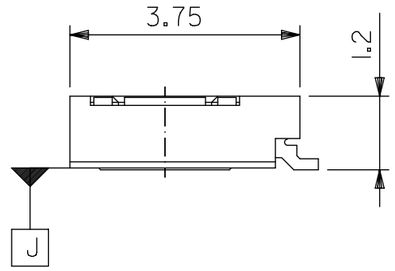
| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 51281 | SEE TABLE | GENERAL MARKET | 4 OF 4 |

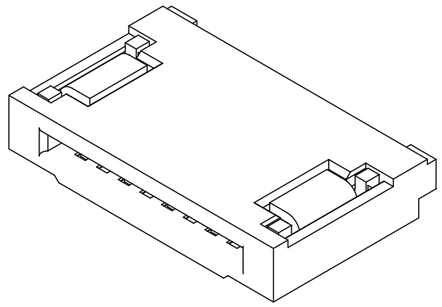
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FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01

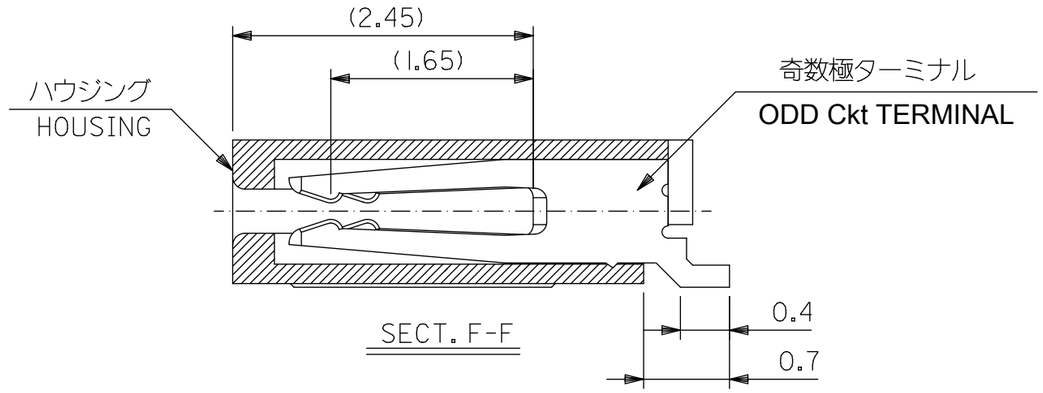
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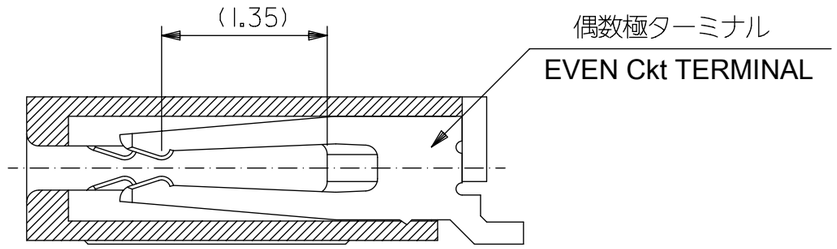



ISO VIEW (参考)




SECT. F-F




SECT. G-G

| C | B | A | EMBOSSED TAPE / ORDER No. オーダー番号 | CIRCUIT |
|---|---|---|---|---|
| 13.5 | 12.5 | 15.1 | 51281-2698 | 26 |
| 12.5 | 11.5 | 14.1 | 51281-2498 | 24 |
| 11.5 | 10.5 | 13.1 | 51281-2298 | 22 |
| 10.5 | 9.5 | 12.1 | 51281-2098 | 20 |
| 9.5 | 8.5 | 11.1 | 51281-1898 | 18 |
| 8.5 | 7.5 | 10.1 | 51281-1698 | 16 |
| 7.5 | 6.5 | 9.1 | 51281-1498 | 14 |
| 6.5 | 5.5 | 8.1 | 51281-1298 | 12 |
| 6.0 | 5.0 | 7.6 | 51281-1198 | 11 |
| 5.5 | 4.5 | 7.1 | 51281-1098 | 10 |
| 5.0 | 4.0 | 6.6 | 51281-0998 | 9 |
| 4.5 | 3.5 | 6.1 | 51281-0898 | 8 |
| 4.0 | 3.0 | 5.6 | 51281-0798 | 7 |
| 3.5 | 2.5 | 5.1 | 51281-0698 | 6 |
| 3.0 | 2.0 | 4.6 | 51281-0598 | 5 |

CONNECTOR SERIES NO. : 51281-**48

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | | |
|---|---|---|
| ANGULAR TOL | ± | 3.0 ° |
| 4 PLACES | ± | 0.2 |
| 3 PLACES | ± | 0.2 |
| 2 PLACES | ± | 0.2 |
| 1 PLACE | ± | 0.2 |
| 0 PLACES | ± | 0.2 |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 708402
DRWN: NARENC 2022/05/27
CHK'D: SMARUYAMA 2022/05/30
APPR: YNAITO 2022/05/30

INITIAL REVISION:
DRWN: NARENC 2022/05/17
APPR: YNAITO 2022/05/30

molex

0.5 FPC CONN NON-ZIF
HSG ASSY (HGT=1.2MM)

PRODUCT CUSTOMER DRAWING

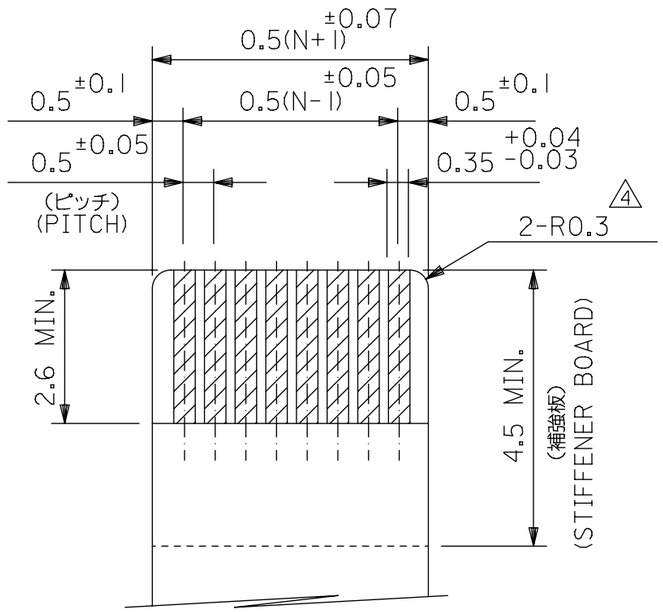
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|---|---|---|---|
| 512811000-SD | PSD | 000 | A |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 51281 | SEE TABLE | GENERAL MARKET | 1 OF 2 |

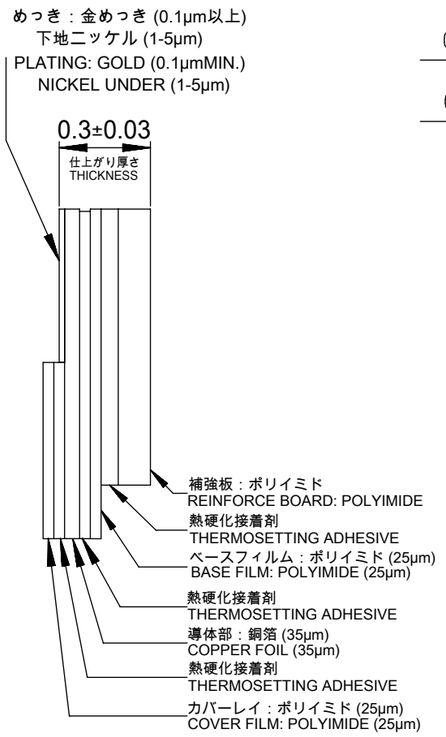
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DATE: 2021/05/07

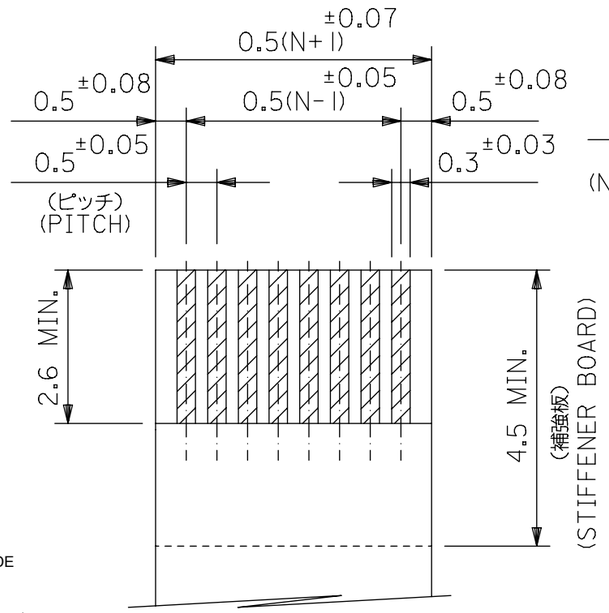
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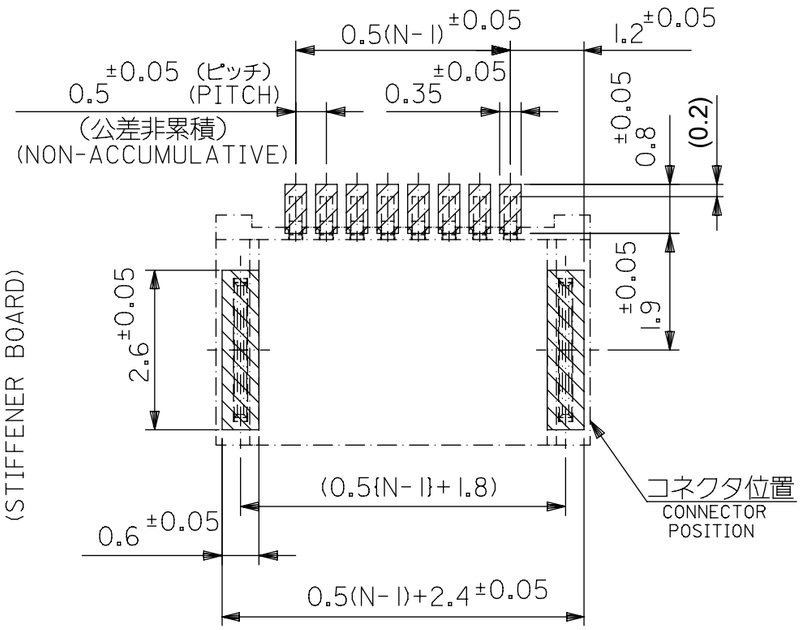

適合ＦＰＣ推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION
（仕上がり厚さ：0.3±0.03）
(THICKNESS:0.3±0.03)




FPC構成推奨仕様
STRUCTURE OF FPC




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)




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

## 注記 NOTES

1. 使用材料 MATERIAL
   ハウジング：液体ポリマー ガラス充填 UL94V-0
   HOUSING : LIQUID CRYSTAL POLYMER (GRASS FILLED) UL94-0
   ターミナル：リン青銅 (t=0.2), ニッケル下地, コンタクト部：金メッキ, テール部：錫メッキ
   TERMINAL : PHOSPHOR-BRONZE, CONTACT : GOLD, TAIL : TIN, OVER NICKEL PLATING
   金具：リン青銅 (t=0.25), ニッケル下地 純錫メッキ
   △2 FITTING NAIL : PHOSPHOR-BRONZE, PURE-TIN OVER NICKEL PLATING
   ソルダーてーり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 J に対し、
   上方向 0.1 MAXIMUM 下方向 0.15 MAXIMUMとする。
   又、相互のバラツキ量は 0.1 MAXIMUMとする。
   MISALIGNMNET OF SOLDER TAILS AND FITTING NAILS FROM J
   UPPER DIRECTION ; 0.1 MAXIMUM, LOWER DIRECTION ; 0.15 MAXIMUM.
   OFFSET BETWEEN SOLDER TAILS AND FITTING NAILS ; 0.1 MAXIMUM.
   △3 偶数極に適用
   TO BE APPLIED PNLY WHEN ALL CIRCUIT ARE EVEN.
   △4 R0.3は、FPCの導体部にかからないこと。
   R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.
5. FPC/FFCについて：
   打抜き方向は導体側から補強版側を推奨いたします。
   導体部については軟銅箔35μmまたは50μm
   メッキ厚0.1 μm以上金メッキ(電気メッキ)を推奨いたします。
   RECOMMENDED PUCHER DIRECTION :
   FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.
   RECOMMENDED CONDUCTOR SPEC :
   THICKNESS OF SOFT COPPER FOIL : 35 μm or 50 μm
   GOLD PLATING : 0.1 μm MIN. (ELECTRICAL PLATING)
6. 本製品は51281-**20の鉛フリー品である。
   THIS PRODUCT IS LEAD FREE OF 51281-**20.
7. ソルダーテールの平坦度は、0.1 MAXIMUMとする。
   SOLDER TAIL COPLANARITY IS 0.1 MAXIMUM.

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| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | | |
|---|---|---|
| ANGULAR TOL | ± | 3.0 ° |
| 4 PLACES | ± | 0.2 |
| 3 PLACES | ± | 0.2 |
| 2 PLACES | ± | 0.2 |
| 1 PLACE | ± | 0.2 |
| 0 PLACES | ± | 0.2 |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 708402
DRWN: NARENC 2022/05/27
CHK'D: SMARUYAMA 2022/05/30
APPR: YNAITO 2022/05/30

INITIAL REVISION:
DRWN: NARENC 2022/05/17
APPR: YNAITO 2022/05/30

molex

0.5 FPC CONN NON-ZIF
HSG ASSY (HGT=1.2MM)

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 512811000-SD | PSD | 000 | A |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 51281 | SEE SHEET 1 | GENERAL MARKET | 2 OF 2 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2022/05/30 07:47:19 |
|---|---|---|---|

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