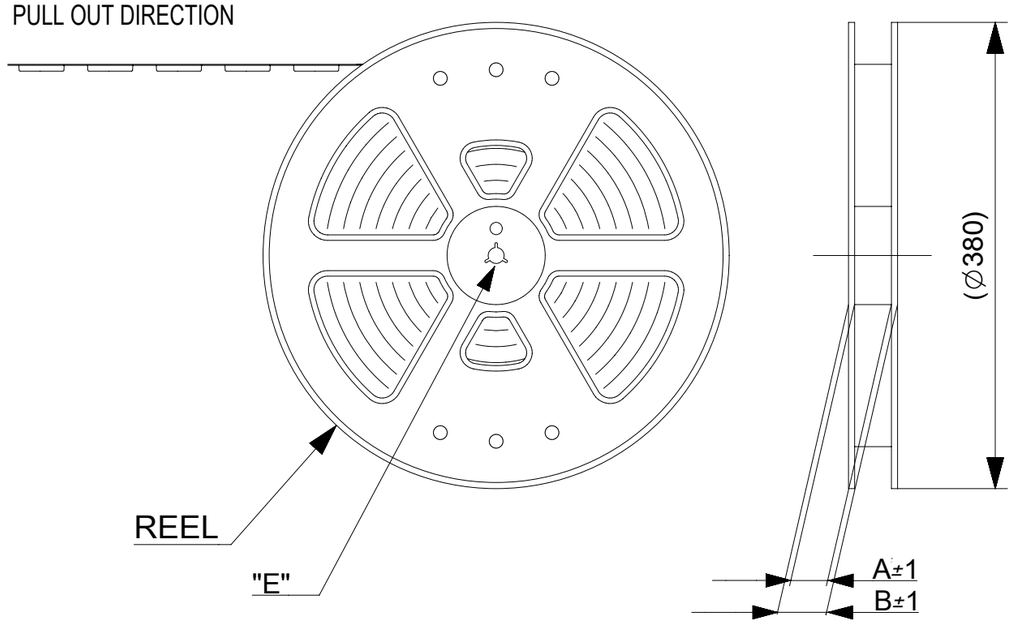
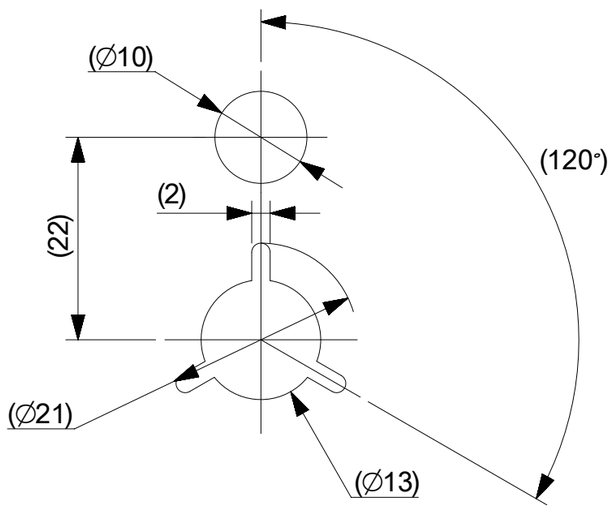
ELV&RoHS COMPLINT

引き出し方向
PULL OUT DIRECTION

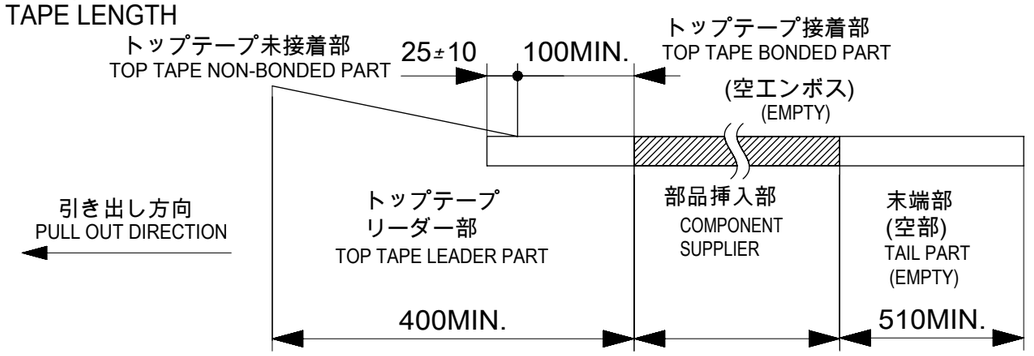



DETAIL "E"

NOTES

1. 梱包数量： 2000個 / リール
   NUMBER OF CONNECTORS : 2000 PCS/REEL
2. リードテープ長さ
   LEAD TAPE LENGTH




3. トップテープの剥離強度については、IEC60286-3に準拠。
   TOP TAPE PEEL FORCE IS DEFINED BY IEC60286-3.
4. 製品詳細寸法については、図面781271002をご参照ください。
   REFER TO THE 781271002 ABOUT DIMENSIONS IN DETAIL.
5. 材料
   キャリアテープ：ポリスチレン(PS)
   トップテープ　：PET,OTHER
   リール　　：ポリスチレン(PS)(リサイクル材を含む)
   MATERIAL
   CARRIER TAPE : POLYSTYRENE(PS)
   TOP TAPE : PET,OTHER
   REEL : POLYSTYRENE(PS) (RECYCLE MATERIAL CONTAINED)
6. 環境負荷物質の管理のため「化学物質ガイドライン」の内容を満足すること。
   "CHEMICAL SUBSTANCES GUIDELINE" SHALL BE APPLIED FOR MANAGEMENT OF ENVIRONMENTAL HAZARDOUS MATERIALS.

CONNECTOR SERIES NO. 78127**25

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

| | | | |
|---|---|---|---|
| EC NO: 107065 | 2016/04/04 | | |
| DRWN: NASANUMA | 2016/08/01 | | |
| CHK'D: YKOBAYASHI02 | 2016/08/02 | | |
| APPR: KMORIKAWA | | | |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | | |
|---|---|---|
| ANGULAR TOL ± | 1.0 | ° |
| 4 PLACES | ± 0.1 | |
| 3 PLACES | ± 0.1 | |
| 2 PLACES | ± 0.1 | |
| 1 PLACE | ± 0.1 | |
| 0 PLACES | ± 0.1 | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: A

DIMENSION UNITS: MM
SCALE: ~~2:1~~
DRWN BY: NASANUMA DATE: 2016/04/04
CHK'D BY: YKOBAYASHI02 DATE: 2016/08/01
APPR BY: KMORIKAWA DATE: 2016/08/02
DRAWING SIZE: A3
THIRD ANGLE PROJECTION

molex

0.5 FPC CONN. N-ZIF ST AU EMBS TP PKG

PRODUCT CUSTOMER DRAWING

| SERIES | MATERIAL NUMBER | CUSTOMER |
|---|---|---|
| 78127 | | |

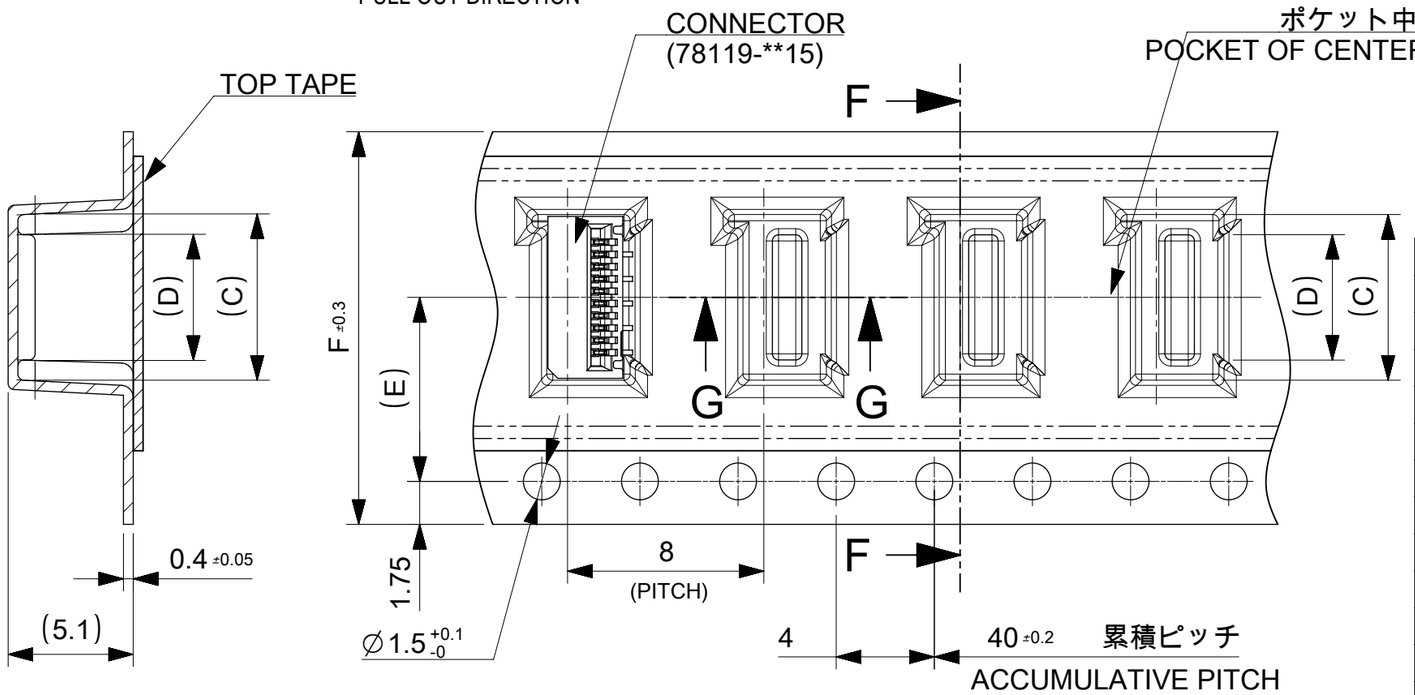
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| 781270002 | PSD | 000 | 1 OF 3 |

| RELEASE STATUS | P1 | RELEASE DATE | 02.08.2016 00:40:34 |
|---|---|---|---|

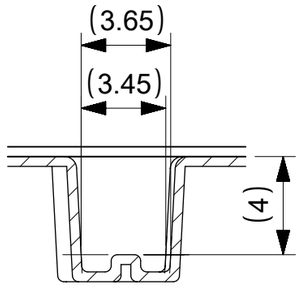
FORMAT: tb-prod-A3
REVISION: F
DATE: 2015/11/16

ELV&RoHS COMPLINT

引き出し方向
PULL OUT DIRECTION




SECTION F-F




SECTION G-G

| F TAPE WIDTH | E | D | C | B | A | EMBOSSED PACKAGE オーダー番号 ORDER NO | CIRCUIT |
|---|---|---|---|---|---|---|---|
| 24 | 11.5 | 14.1 | 15.8 | 29.4 | 25.4 | 781272820 | 28 |
| | | 13.6 | 15.3 | | | 781272720 | 27 |
| | | 13.1 | 14.8 | | | 781272620 | 26 |
| | | 12.6 | 14.3 | | | 781272520 | 25 |
| | | 12.1 | 13.8 | | | 781272420 | 24 |
| | | 11.6 | 13.3 | | | 781272320 | 23 |
| | | 11.1 | 12.8 | | | 781272220 | 22 |
| | | 10.6 | 12.3 | | | 781272120 | 21 |
| | | 10.1 | 11.8 | | | 781272020 | 20 |
| | | 9.6 | 11.3 | | | 781271920 | 19 |
| | | 9.1 | 10.8 | | | 781271820 | 18 |
| | | 8.6 | 10.3 | | | 781271720 | 17 |
| | | 8.1 | 9.8 | | | 781271620 | 16 |
| | | 7.6 | 9.3 | | | 781271520 | 15 |
| 16 | 7.5 | 7.1 | 8.8 | 21.4 | 17.4 | 781271420 | 14 |
| | | 6.6 | 8.3 | | | 781271320 | 13 |
| | | 6.1 | 7.8 | | | 781271220 | 12 |
| | | 5.6 | 7.3 | | | 781271120 | 11 |
| | | 5.1 | 6.8 | | | 781271020 | 10 |
| | | 4.6 | 6.3 | | | 781270920 | 9 |
| | | 4.1 | 5.8 | | | 781270820 | 8 |
| | | 3.6 | 5.3 | | | 781270720 | 7 |
| | | 3.1 | 4.8 | | | 781270620 | 6 |

CONNECTOR SERIES NO. 78127**25

# 16mm, 24mm幅キャリアテープ

# 16mm, 24mm WIDTH CARIER TAPE

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

EC NO: 107065 2016/04/04
DRWN: NASANUMA 2016/08/01
CHK'D: YKOBAYASHI02 2016/08/02
APPR: KMORIKAWA

REV: A

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °

| | | |
|---|---|---|
| 4 PLACES | ± | 0.1 |
| 3 PLACES | ± | 0.1 |
| 2 PLACES | ± | 0.1 |
| 1 PLACE | ± | 0.1 |
| 0 PLACES | ± | 0.1 |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: MM
SCALE: 4:1
DRWN BY: NASANUMA DATE: 2016/04/04
CHK'D BY: YKOBAYASHI02 DATE: 2016/08/01
APPR BY: KMORIKAWA DATE: 2016/08/02
DRAWING SIZE: A3
THIRD ANGLE PROJECTION

molex

0.5 FPC CONN. N-ZIF ST AU EMBS TP PKG

PRODUCT CUSTOMER DRAWING

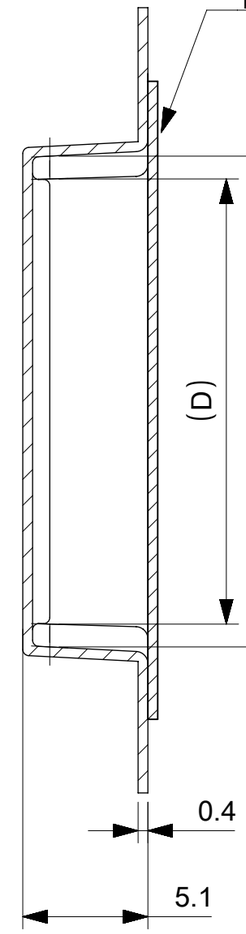
| SERIES | MATERIAL NUMBER | CUSTOMER |
|---|---|---|
| 78127 | | |

| DOCUMENT NUMBER | DOC TYPE | DOC PART | SHEET NUMBER |
|---|---|---|---|
| 781270002 | PSD | 000 | 2 OF 3 |

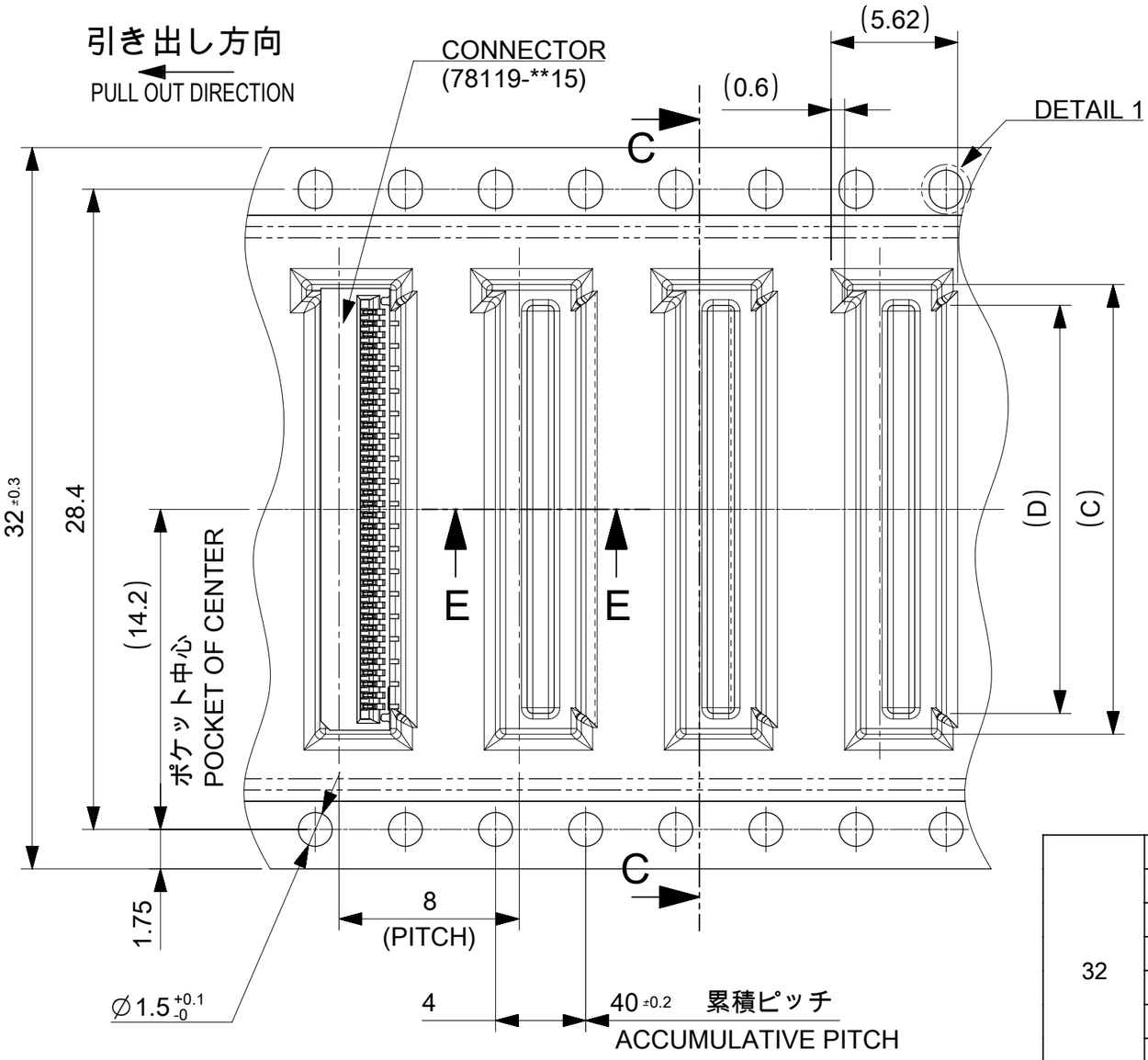
| RELEASE STATUS | P1 | RELEASE DATE | 02.08.2016 00:40:34 |
|---|---|---|---|

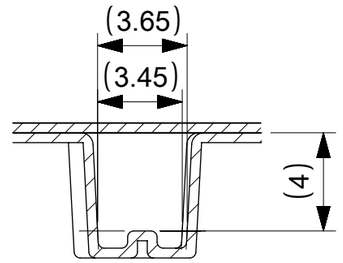
FORMAT: master-tb-prod-A3
REVISION: F
DATE: 2015/11/16

ELV&RoHS COMPLINT

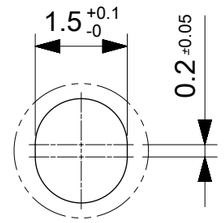



SECTION C-C




SECTION E-E




DETAIL 1
SCALE 10:1

| TAPE WIDTH | D | C | B | A | EMBOSSED PACKAGE オーダー番号 ORDER NO | CIRCUIT |
|---|---|---|---|---|---|---|
| 32 | 18.1 | 19.8 | 37.4 | 33.4 | 781273620 | 36 |
| | 17.6 | 19.3 | | | 781273520 | 35 |
| | 17.1 | 18.8 | | | 781273420 | 34 |
| | 16.6 | 18.3 | | | 781273320 | 33 |
| | 16.1 | 17.8 | | | 781273220 | 32 |
| | 15.6 | 17.3 | | | 781273120 | 31 |
| | 15.1 | 16.8 | | | 781273020 | 30 |
| | 14.6 | 16.3 | | | 781272920 | 29 |

CONNECTOR SERIES NO. 78127**25

# 32mm幅キャリアテープ

# 32mm WIDTH CARRIER TAPE

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

| | | |
|---|---|---|
| EC NO: | 107065 | 2016/04/04 |
| DRWN: | NASANUMA | 2016/08/01 |
| CHK'D: | YKOBAYASHI02 | 2016/08/02 |
| APPR: | KMORIKAWA | |
| REV | A | |

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

| | | |
|---|---|---|
| 4 PLACES | ± | 0.1 |
| 3 PLACES | ± | 0.1 |
| 2 PLACES | ± | 0.1 |
| 1 PLACE | ± | 0.1 |
| 0 PLACES | ± | 0.1 |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

| | |
|---|---|
| DIMENSION UNITS | MM |
| SCALE | 4:1 |
| DRWN BY | NASANUMA |
| DATE | 2016/04/04 |
| CHK'D BY | YKOBAYASHI02 |
| DATE | 2016/08/01 |
| APPR BY | KMORIKAWA |
| DATE | 2016/08/02 |
| DRAWING SIZE | A3 |
| THIRD ANGLE PROJECTION | |

molex®

0.5 FPC CONN. N-ZIF ST AU EMBS TP PKG

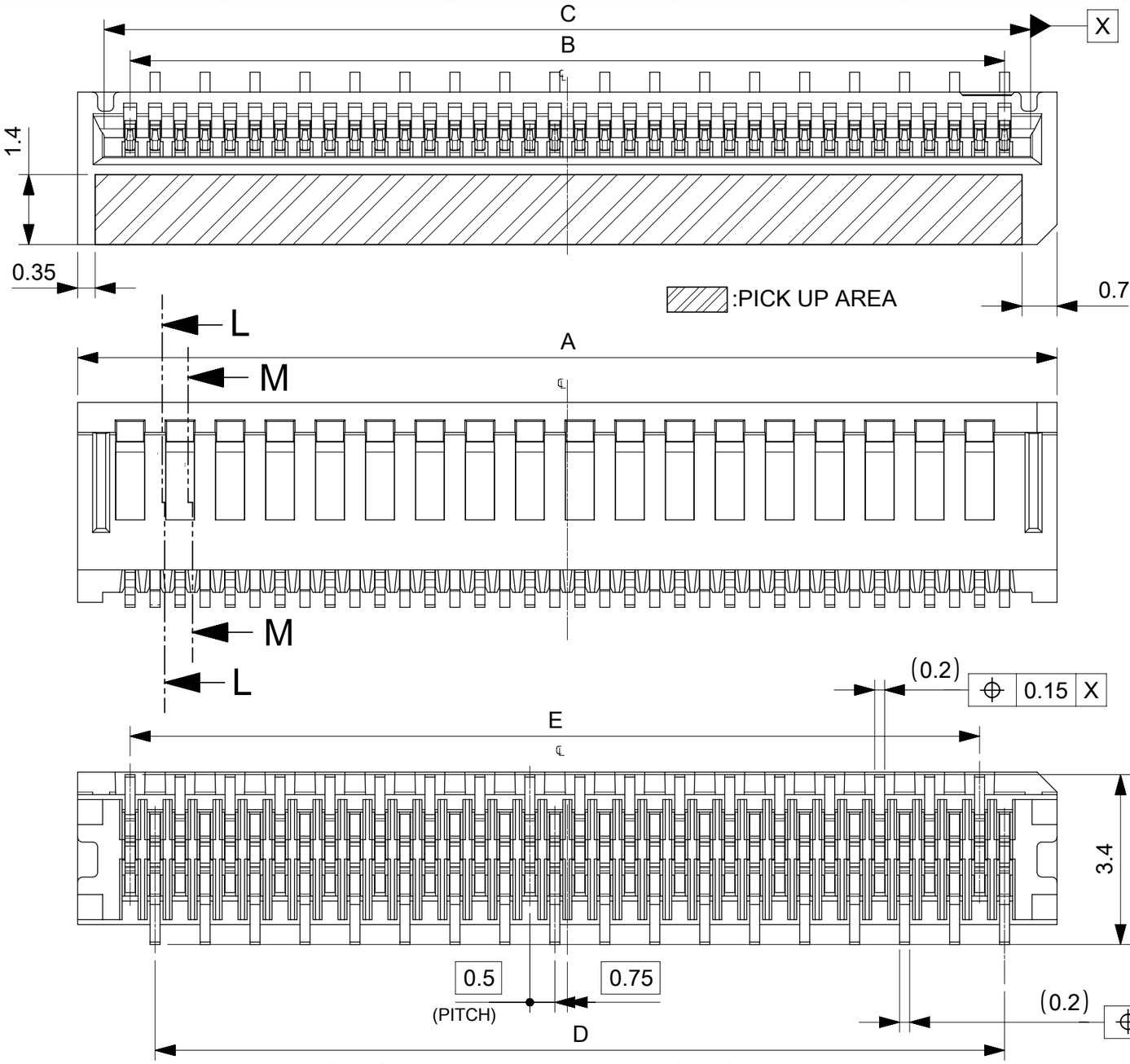
PRODUCT CUSTOMER DRAWING

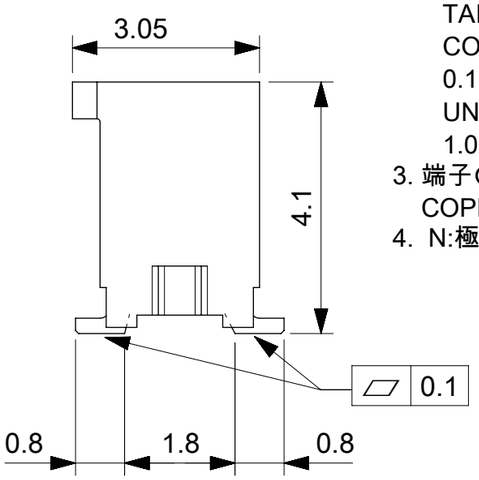
| SERIES | MATERIAL NUMBER | CUSTOMER |
|---|---|---|
| 78127 | | |

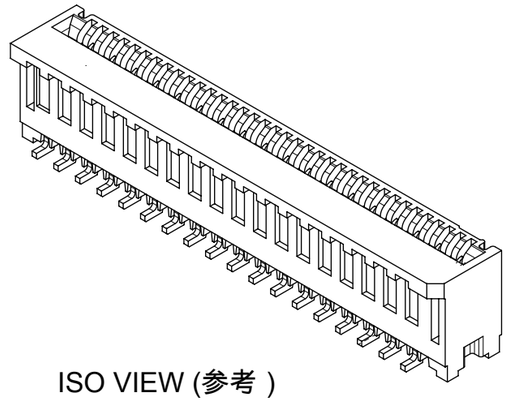
| DOCUMENT NUMBER | DOC TYPE | DOC PART | SHEET NUMBER |
|---|---|---|---|
| 781270002 | PSD | 000 | 3 OF 3 |

| RELEASE STATUS | P1 | RELEASE DATE | 02.08.2016 00:40:34 |
|---|---|---|---|

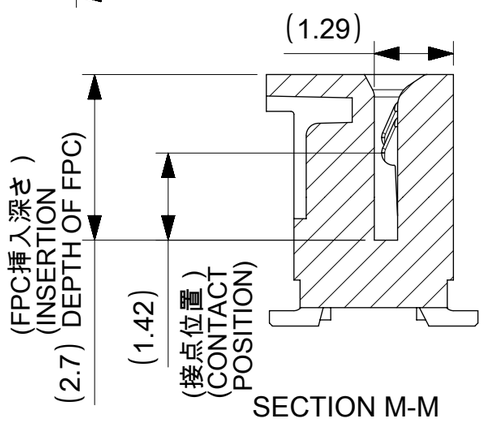
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REVISION: G
DATE: 2015/12/14



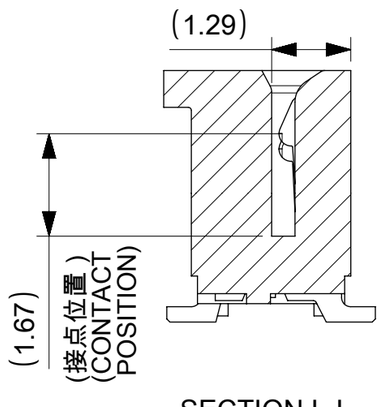



ISO VIEW (参考 )




SECTION M-M




SECTION L-L

NOTES

ELV&RoHS COMPLIANT

1. 使用材料 MATERIALS
   ハウジング　：液晶ポリマー ( LCP)
   ガラス充填、UL94V-0(黒色 )
   端子　：リン青銅　t=0.2mm
   HOUSING　:LIQUID CRYSTAL POLYMAER ( LCP)
   GLASS FILLED, UL94V-0, BLACK
   TERMINAL:PHOSPHOR BRONZE t=0.2mm
2. メッキ仕様 PLATING
   端子 TERMINAL
   テール部：金メッキ
   接点部：金メッキ　0.1μm以上
   下地：ニッケルメッキ　1.0μm以上
   TAIL　AREA :Gold PLATING
   CONTACT AREA:Gold PLATING
   0.1MICRO METER MINIMUM
   UNDER PLATING:Nickel PLATING
   1.0 MICROMETER MINIMUM
3. 端子の平坦度はテール部にて0.1mm以下とする。
   COPLANALITY OF SOLDER TAILS:0.1mmMAX.
4. N:極数　N:CIRCUIT

CONNECTOR SERIES NO. 78127**25

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

| EC NO: | DRWN: | CHK'D: | APPR: | DATE |
|---|---|---|---|---|
| 107065 | NASANUMA | YKOBAYASHI02 | KMORIKAWA | 2016/08/02 |
| | | | | 2016/08/01 |
| | | | | 2016/04/05 |

| REV | DESCRIPTION |
|---|---|
| A | |

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

| | |
|---|---|
| 4 PLACES | ± 0.1 |
| 3 PLACES | ± 0.1 |
| 2 PLACES | ± 0.1 |
| 1 PLACE | ± 0.1 |
| 0 PLACES | ± 0.1 |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

| | |
|---|---|
| DIMENSION UNITS | MM |
| SCALE | 10:1 |
| DRWN BY | NASANUMA |
| DATE | 2016/04/05 |
| CHK'D BY | YKOBAYASHI02 |
| DATE | 2016/08/01 |
| APPR BY | KMORIKAWA |
| DATE | 2016/08/02 |
| DRAWING SIZE | A3 |
| | THIRD ANGLE PROJECTION |

molex

0.5 PITCH NON-ZIF CONN. SMT ST ASSY AG

PRODUCT CUSTOMER DRAWING

| SERIES | MATERIAL NUMBER | CUSTOMER |
|---|---|---|
| 78127 | | |

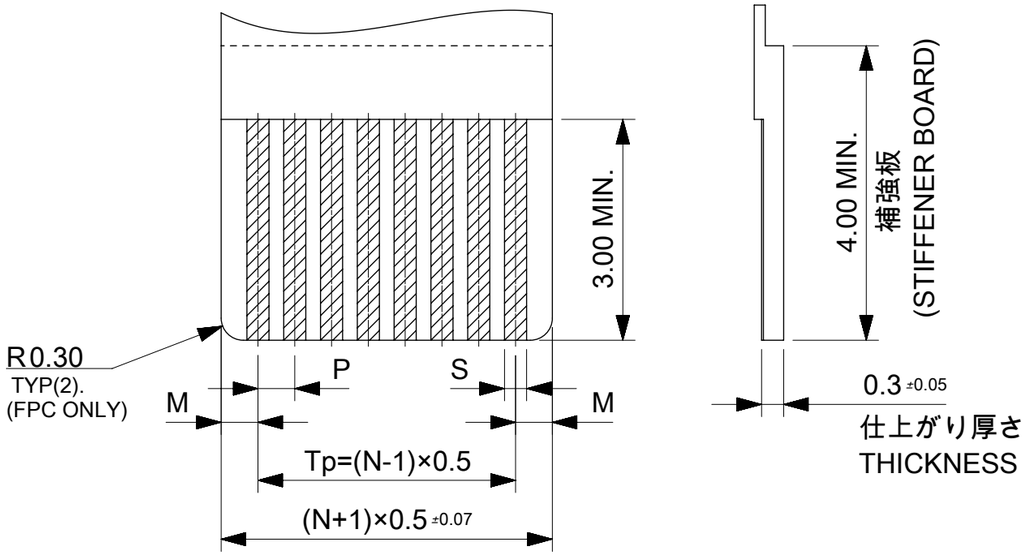
| DOCUMENT NUMBER | DOC TYPE | DOC PART | SHEET NUMBER |
|---|---|---|---|
| 781271002 | PSD | 000 | 1 OF 3 |

| RELEASE STATUS | P1 | RELEASE DATE | 02.08.2016 00:40:37 |
|---|---|---|---|

FORMAT: master-tb-prod-A3
REVISION: F
DATE: 2015/11/16

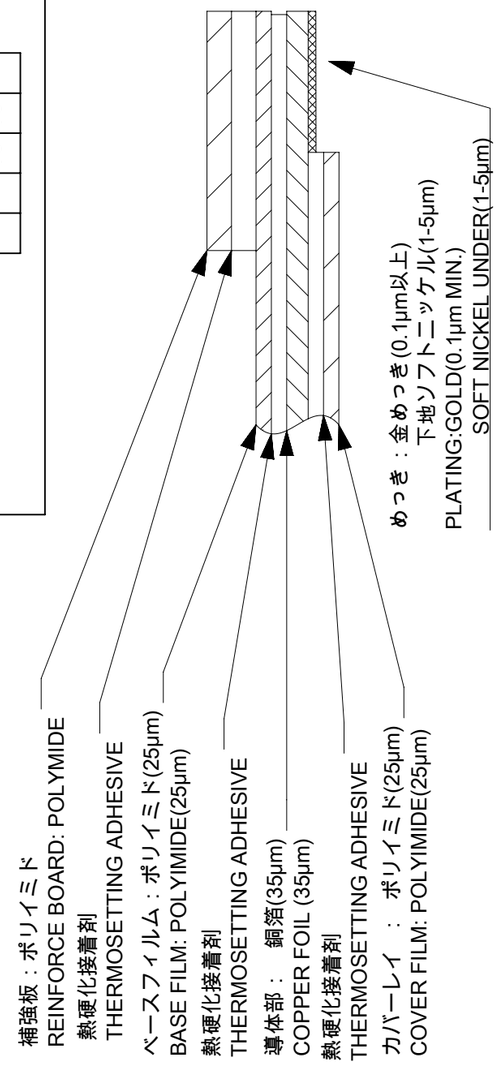
適合FPC/FFC推奨寸法

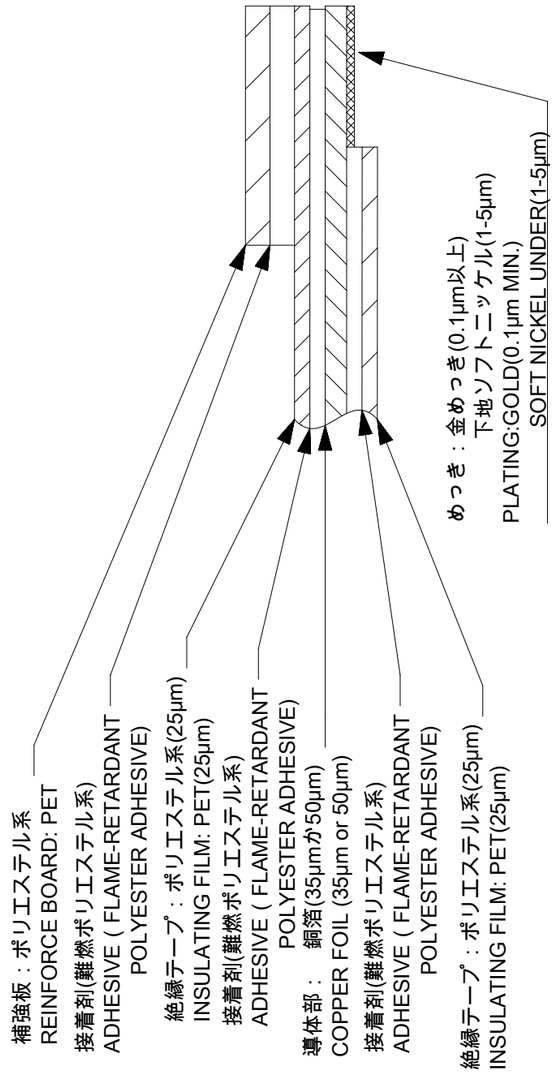
APPLICABLE FPC/FFC
RECOMMENDED DIMENSION




| | | |
|---|---|---|
| S | 0.30 $^{+0.05}_{-0.02}$ | 0.35 $^{+0.04}_{-0.03}$ |
| P | 0.50±0.03 | 0.50±0.02 |
| M | 0.50±0.10 | 0.50±0.12 |
| Tp | Tp±0.03 | Tp±0.03 |
| | FFC | FPC |

ELV & RoHS COMPLIANT




FPC/FFCについて
打抜き方向は導体側から補強版側を推奨します。
導体部については軟箔銅35μmまたは、50μmを推奨いたします。
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、染み出し無きことを推奨いたします。
FPC/FFCに規定された定格温度が、FPC/FFC単体前提である場合が御座います。
コネクタと組み合わせての実使用において、接着層が劣化する等の信頼性を満足できないケースを回避する為、実機での評価 / 確認をお願い致します。
ABOUT FPC/FFC
RECOMMENDED PUNCHING DIRECTION:FROM CONDUCTOR SIDE TO STIFFENER SIDE.
RECOMMENDED CONDUCTOR SPEC:SOFT COPPER FOIL.
RECOMMENDED CONDUCTOR THICKNESS:35 MICROMETER OR 50 MICROMETER.
RECOMMENDED PUT APPROPRIATE AMOUNT OF ADHESIVE ON ADHEREND BECAUSE THERE IS A POSSIBILITY THAT EXTRA ADHESIVE CAUSES THE DEFECT IN ELECTRICAL CONTINUITY.
THE HEAT RESISTANCE OF FPC/FFC IS ONLY FPC/FFC SPEC.
TO PREVENT THE CASE THAT RELIABILITY CANNOT BE SATISFIED (THE ADHESIVE IS DETERIORATED etc,)PLEASE DO THE EVALUATION AND THE CONFIRMATION WITH ACTUAL CONNECTOR.
FPCについて
補強フィルム材は、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。
ABOUT FPC
RECOMMENDED STIFFENER MATERIAL:POLYIMIDE.
RECOMMENDED BASE FILM THICKNESS:25 MICROMETER.
RECOMMENDED ADHESIVE:THERMOSETTING ADHESIVE.

FPC構成推奨仕様
STRUCTURE OF FPC

FFC構成推奨仕様
STRUCTURE OF FFC

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

EC NO: 107065 2016/04/05
DRWN: NASANUMA 2016/08/01
CHK'D: YKOBAYASHI02 2016/08/02
APPR: KMORIKAWA

REV: A

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °
4 PLACES ± 0.1
3 PLACES ± 0.1
2 PLACES ± 0.1
1 PLACE ± 0.1
0 PLACES ± 0.1
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: MM
SCALE: 12:1
DRWN BY: NASANUMA DATE: 2016/04/05
CHK'D BY: YKOBAYASHI02 DATE: 2016/08/01
APPR BY: KMORIKAWA DATE: 2016/08/02
DRAWING SIZE: A3
THIRD ANGLE PROJECTION

molex

0.5 PITCH NON-ZIF CONN. SMT ST ASSY AG

PRODUCT CUSTOMER DRAWING

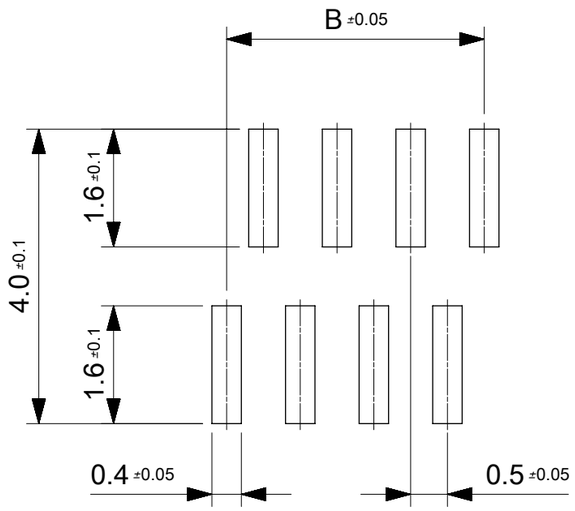
| SERIES | MATERIAL NUMBER | CUSTOMER |
|---|---|---|
| 78127 | | |

| DOCUMENT NUMBER | DOC TYPE | DOC PART | SHEET NUMBER |
|---|---|---|---|
| 781271002 | PSD | 000 | 2 OF 3 |

| RELEASE STATUS | P1 | RELEASE DATE | 02.08.2016 00:40:37 |
|---|---|---|---|

FORMAT: master-lb-prod-A3
REVISION: F
DATE: 2015/11/16

| | | | | | | |
|---|---|---|---|---|---|---|
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| 16 | 17 | 18.1 | 17 | 19.1 | 781273520 | 35 |
| 16 | 16 | 17.6 | 16.5 | 18.6 | 781273420 | 34 |
| 15 | 16 | 17.1 | 16 | 18.1 | 781273320 | 33 |
| 15 | 15 | 16.6 | 15.5 | 17.6 | 781273220 | 32 |
| 14 | 15 | 16.1 | 15 | 17.1 | 781273120 | 31 |
| 14 | 14 | 15.6 | 14.5 | 16.6 | 781273020 | 30 |
| 13 | 14 | 15.1 | 14 | 16.1 | 781272920 | 29 |
| 13 | 13 | 14.6 | 13.5 | 15.6 | 781272820 | 28 |
| 12 | 13 | 14.1 | 13 | 15.1 | 781272720 | 27 |
| 12 | 12 | 13.6 | 12.5 | 14.6 | 781272620 | 26 |
| 11 | 12 | 13.1 | 12 | 14.1 | 781272520 | 25 |
| 11 | 11 | 12.6 | 11.5 | 13.6 | 781272420 | 24 |
| 10 | 11 | 12.1 | 11 | 13.1 | 781272320 | 23 |
| 10 | 10 | 11.6 | 10.5 | 12.6 | 781272220 | 22 |
| 9 | 10 | 11.1 | 10 | 12.1 | 781272120 | 21 |
| 9 | 9 | 10.6 | 9.5 | 11.6 | 781272020 | 20 |
| 8 | 9 | 10.1 | 9 | 11.1 | 781271920 | 19 |
| 8 | 8 | 9.6 | 8.5 | 10.6 | 781271820 | 18 |
| 7 | 8 | 9.1 | 8 | 10.1 | 781271720 | 17 |
| 7 | 7 | 8.6 | 7.5 | 9.6 | 781271620 | 16 |
| 6 | 7 | 8.1 | 7 | 9.1 | 781271520 | 15 |
| 6 | 6 | 7.6 | 6.5 | 8.6 | 781271420 | 14 |
| 5 | 6 | 7.1 | 6 | 8.1 | 781271320 | 13 |
| 5 | 5 | 6.6 | 5.5 | 7.6 | 781271220 | 12 |
| 4 | 5 | 6.1 | 5 | 7.1 | 781271120 | 11 |
| 4 | 4 | 5.6 | 4.5 | 6.6 | 781271020 | 10 |
| 3 | 4 | 5.1 | 4 | 6.1 | 781270920 | 9 |
| 3 | 3 | 4.6 | 3.5 | 5.6 | 781270820 | 8 |
| 2 | 3 | 4.1 | 3 | 5.1 | 781270720 | 7 |
| 2 | 2 | 3.6 | 2.5 | 4.6 | 781270620 | 6 |
| E | D | C | B | A | EMBOSSED PACKAGE<br>オーダー番号 ORDER NO. | CIRCUIT |




推奨基板レイアウト
RECOMMENDED PCB LAYOUT

参考マスク厚:100μm
参考開口率:100%
REFERENCE SCREEN THICKNESS:100
REFERENCE SCREEN OPEN RATIO:100%

ELV & RoHS COMPLIANT

CONNECTOR SERIES NO. 78127**25

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

EC NO: 107065 2016/04/05
DRWN: NASANUMA 2016/08/01
CHK'D: YKOBAYASHI02 2016/08/02
APPR: KMORIKAWA 2016/08/02

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °
4 PLACES ± 0.1
3 PLACES ± 0.1
2 PLACES ± 0.1
1 PLACE ± 0.1
0 PLACES ± 0.1
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: A

DIMENSION UNITS: MM
SCALE: 12:1
DRWN BY: NASANUMA DATE: 2016/04/05
CHK'D BY: YKOBAYASHI02 DATE: 2016/08/01
APPR BY: KMORIKAWA DATE: 2016/08/02
DRAWING SIZE: A3
THIRD ANGLE PROJECTION

molex

0.5 PITCH NON-ZIF CONN. SMT ST ASSY AG

PRODUCT CUSTOMER DRAWING

| SERIES | MATERIAL NUMBER | CUSTOMER |
|---|---|---|
| 78127 | | |

| DOCUMENT NUMBER | DOC TYPE | DOC PART | SHEET NUMBER |
|---|---|---|---|
| 781271002 | PSD | 000 | 3 OF 3 |

| RELEASE STATUS | P1 | RELEASE DATE | 02.08.2016 00:40:37 |
|---|---|---|---|

FORMAT: master-tb-prod-A3
REVISION: F
DATE: 2015/11/16

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## molex:

2153261101 150200083 2181021034 151660051 2153252062 2175202124 559320830 2138642633 2174911202 2175101122 936012539 1451300703 2147561082 2162721083 2174911213 0982670423 2147632113 2153482125 217471-1221 2174712111 2178431123 151670248 0150200051 1200878703 151660751 216288-1063 2163012123 2174902123 2183231061 1300970327