

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0536251474

Status:

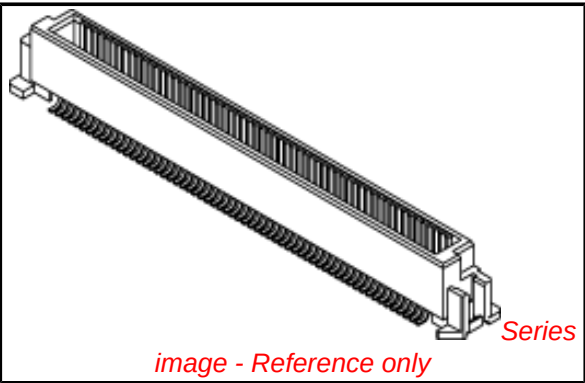
Active

Overview:

slimstack\_0635mm\_025\_pitch

Description:

0.635mm (.025") Pitch SlimStack™ Header, Surface Mount, Dual Row, Vertical Stacking, 13.00mm (.512") Stack Height, Lead-free, 140 Circuits, with Embossed Tape with Cover Packaging



|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| Documents:                    |                                                          |
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-52760-015 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>     |

|                                |                                  |
|--------------------------------|----------------------------------|
| General                        |                                  |
| Product Family                 | PCB Headers                      |
| Series                         | 53625                            |
| Application                    | Board-to-Board                   |
| Comments                       | Stacking-Type                    |
| Overview                       | slimstack_0635mm_025_pitch       |
| Product Name                   | SlimStack™                       |
| Physical                       |                                  |
| Breakaway                      | No                               |
| Circuits (Loaded)              | 140                              |
| Circuits (maximum)             | 140                              |
| Color - Resin                  | Natural                          |
| Durability (mating cycles max) | 50                               |
| First Mate / Last Break        | No                               |
| Glow-Wire Compliant            | No                               |
| Guide to Mating Part           | No                               |
| Keying to Mating Part          | None                             |
| Lock to Mating Part            | None                             |
| Mated Height (in)              | 0.276 In, 0.512 In               |
| Mated Height (mm)              | 13.00 mm, 7.00 mm                |
| Material - Metal               | Phosphor Bronze, Stainless Steel |
| Material - Plating Mating      | Gold                             |
| Material - Plating Termination | Tin                              |
| Material - Resin               | High Temperature Thermoplastic   |
| Number of Rows                 | 2                                |
| Orientation                    | Vertical                         |
| PCB Locator                    | Yes                              |
| PCB Retention                  | Yes                              |
| Packaging Type                 | Embossed Tape on Reel            |
| Pitch - Mating Interface (in)  | 0.025 In                         |
| Pitch - Mating Interface (mm)  | 0.64 mm                          |
| Plating min: Mating (µin)      | 10                               |
| Plating min: Mating (µm)       | 0.25                             |
| Plating min: Termination (µin) | 40                               |
| Plating min: Termination (µm)  | 1                                |
| Polarized to PCB               | Yes                              |
| Robotic Placement              | Metal Cap                        |
| Shrouded                       | Fully                            |
| Stackable                      | No                               |
| Temperature Range - Operating  | -55°C to +85°C                   |
| Termination Interface: Style   | Surface Mount                    |
| Electrical                     |                                  |
| Current - Maximum per Contact  | 0.5A                             |

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

China RoHS

Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)

For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

53625Series

Mates With

SlimStack™ Receptacle [52760](#) , [52837](#) , [52885](#) , [52901](#)

Voltage - Maximum

100V

Material Info

Reference - Drawing Numbers

Packaging Specification

Product Specification

Sales Drawing

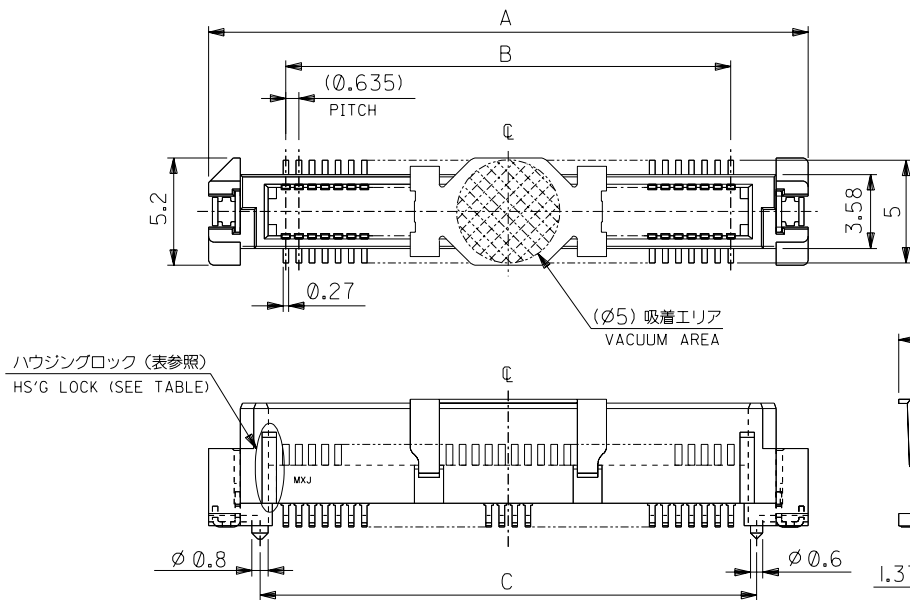
SPK-53625-001

PS-52760-015, RPS-52760-017, RPS-52760-018,  
RPS-52760-020, RPS-52760-021, RPS-52760-027,  
RPS-52760-029

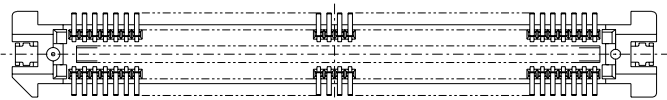
SD-53625-002, SD-53625-003

This document was generated on 05/25/2010

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ハウジングロック (表参照)  
HS'G LOCK (SEE TABLE)



### 注) NOTES

#### 1. 材質 MATERIAL

ハウジング: ガラス入りPPS、茶色、UL94V-0  
HOUSING: G.F. PPS, BROWN, UL94V-0  
ターミナル: 銅合金 (t = 0.2)  
TERMINAL: COPPER ALLOY  
補強金具: 銅合金 (t = 0.25)  
FITTING NAIL: COPPER ALLOY  
吸着カバー: ステンレス (t = 0.2)  
VACUUM COVER: STAINLESS STEEL

#### 2. メッキ仕様 PLATING

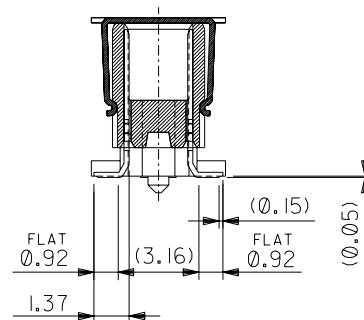
ターミナル: 接点部: 金メッキ 0.25 μm MIN.  
TERMINAL: CONTACT AREA: GOLD 0.25 MICROMETER MIN.  
半田付け部: 錫メッキ 1.0 μm MIN.  
SOLDER TAIL AREA: TIN 1.0 MICROMETER MIN.  
下地メッキ: ニッケルメッキ 1.5 μm MIN.  
UNDER-PLATING: NICKEL 1.5 MICROMETER MIN.  
補強金具: 錫メッキ 1.0 μm MIN.  
FITTING NAIL: TIN 1.0 MICROMETER MIN.  
下地メッキ: ニッケルメッキ 1.0 μm MIN.  
UNDER-PLATING: NICKEL 1.0 MICROMETER MIN.

#### 3. テールのバラツキ寸法 TAIL COPLANARITY

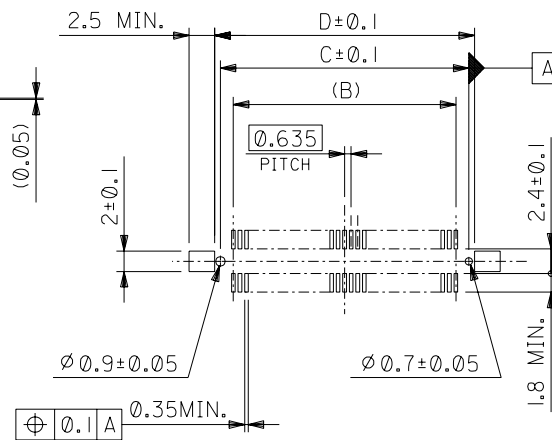
テール平坦度は、0.1 MAX. とする。  
TAILS COPLANARITY TO BE 0.1 MAX.

#### 4. エンボス対応済みの極数については、SD-53625-003を参照下さい。 FOR THE EMBOSSED PACKAGE PRODUCTS, SEE SD-53625-003.

#### 5. 本製品は53625-\*\*\*2の鉛フリー品である。 THIS PRODUCT IS LEAD FREE OF 53625-\*\*\*2.



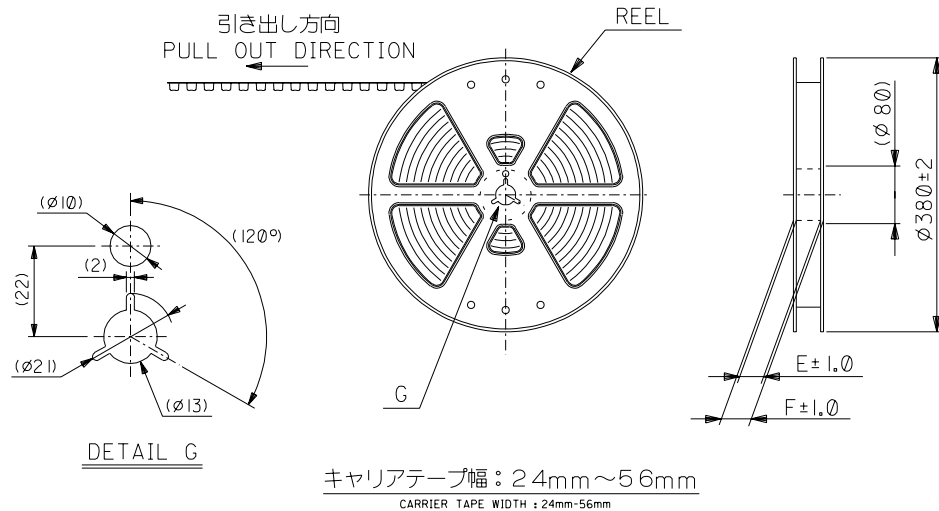
半田付け部詳細図  
DETAIL FOR SOLDERING AREA



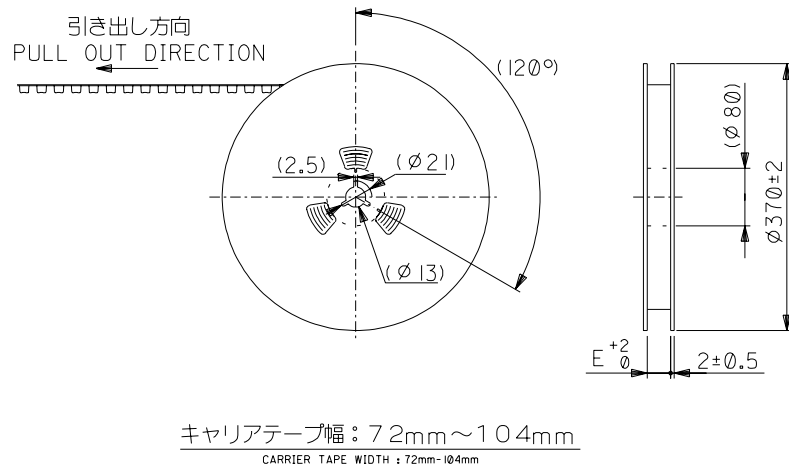
推奨基板寸法  
RECOMMENDED PCB PATTERN LAYOUT  
(SCALE: 2-1)

|           |       |       |        |       |                              |                      |                |                   |
|-----------|-------|-------|--------|-------|------------------------------|----------------------|----------------|-------------------|
| 無し<br>NO  | 79.17 | 78.07 | 75.565 | 83.07 | 53625-2474                   | 53625-2472           | 240            | ○                 |
|           | 66.47 | 65.37 | 62.865 | 70.37 | —                            | -2072                | 200            | —                 |
|           | 60.12 | 59.02 | 56.515 | 64.02 | —                            | -1872                | 180            | —                 |
|           | 53.77 | 52.67 | 50.165 | 57.67 | 53625-1674                   | -1672                | 160            | ○                 |
|           | 47.42 | 46.32 | 43.815 | 51.32 | —                            | -1472                | 140            | ○                 |
|           | 41.07 | 39.97 | 37.465 | 44.97 | —                            | -1274                | 120            | ○                 |
|           | 34.72 | 33.62 | 31.115 | 38.62 | —                            | -1074                | 100            | —                 |
|           | 31.55 | 30.45 | 27.94  | 35.45 | —                            | -0974                | 90             | ○                 |
|           | 28.37 | 27.27 | 24.765 | 32.27 | —                            | -0874                | 80             | ○                 |
|           | 25.2  | 24.1  | 21.59  | 29.1  | —                            | -0774                | 70             | —                 |
| 有り<br>YES | 24.56 | 23.46 | 20.955 | 28.46 | —                            | -6874                | 68             | —                 |
|           | 22.02 | 20.92 | 18.415 | 25.92 | —                            | -0674                | 60             | —                 |
|           | 18.85 | 17.75 | 15.24  | 22.75 | —                            | -0574                | 50             | ○                 |
|           | 15.67 | 14.57 | 12.065 | 19.57 | —                            | -0474                | 40             | ○                 |
|           | 12.5  | 11.4  | 8.89   | 16.4  | —                            | -0374                | 30             | ○                 |
|           | 9.32  | 8.22  | 5.715  | 13.22 | 53625-0274                   | 53625-0272           | 20             | —                 |
|           |       |       |        |       | エンボス梱包<br>EMBOSSED PACKAGING | 製品番号<br>MATERIAL NO. | 極数<br>CKT. NO. | 量産対応<br>AVAILABLE |
|           |       |       |        |       |                              | MODEL NO.            | 53625-***72    |                   |
|           |       |       |        |       |                              |                      |                |                   |
|           |       |       |        |       |                              |                      |                |                   |

|  |  |  |  |                                |                               |                                                                   |  |  |
|--|--|--|--|--------------------------------|-------------------------------|-------------------------------------------------------------------|--|--|
|  |  |  |  | 材料<br>MATERIAL                 | 注) 参照<br>SEE NOTES            | molex MOLEX-JAPAN CO., LTD.<br>日本モレックス株式会社                        |  |  |
|  |  |  |  | 仕上げ<br>FINISH                  | 注) 参照<br>SEE NOTES            | REVISE ONLY ON CAD SYSTEM                                         |  |  |
|  |  |  |  | 適用電線範囲<br>WIRE RANGE           | —                             | TITLE 名称                                                          |  |  |
|  |  |  |  | 被覆外径<br>INS. RANGE             | —                             | 0.635 PITCH B-T-O-B CONN.<br>PLUG HS'G COVER ASS'Y<br>-LEAD FREE- |  |  |
|  |  |  |  | DRAWN BY '04/05/14<br>Y.WADA   | CHK'D BY '04/05/14<br>M.SASAO | DWG. NO.                                                          |  |  |
|  |  |  |  | APP'D BY '04/05/14<br>M.SASAO  | 尺度<br>SCALE 4-1               | SD-53625-002                                                      |  |  |
|  |  |  |  | 一般公差<br>GENERAL TOLERANCES     | 記号<br>LTR                     | REV                                                               |  |  |
|  |  |  |  | 新規格作成<br>RELEASED (J2004-4233) | 変更内容<br>REVISION RECORD       | 0                                                                 |  |  |
|  |  |  |  | DR. CHK.                       | 日付<br>DATE                    |                                                                   |  |  |



キャリアテープ幅：24mm~56mm  
CARRIER TAPE WIDTH : 24mm-56mm



キャリアテープ幅：72mm~104mm  
CARRIER TAPE WIDTH : 72mm-104mm

#### 注) NOTES

1. 製品番号 53625-\*\*\*72 の詳細寸法については、SD-53625-002 を参照下さい。  
IN THE PACKAGE ,PART NO.53625-\*\*\*72 DETAILED DIMENSIONS ,SEE SD-53625-002

2. 梱包数量 :  
NUMBER OF CONNECTORS :

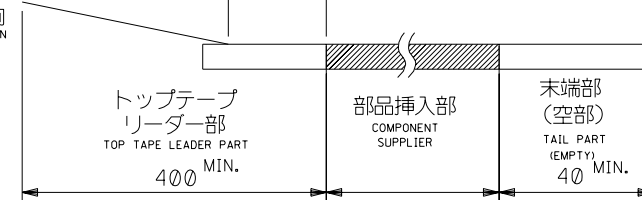
| CIRCUITS | NUMBER        |
|----------|---------------|
| OTHERS   | 1000 PCS/REEL |
| 240      | 800 PCS/REEL  |

3. リードテープ長さ  
LEAD TAPE LENGTH

トップテープ接着部  
TOP TAPE BONDED PART  
(空エンボス)  
(EMPTY)

20PCS. MIN.

引き出し方向  
PULL OUT DIRECTION



4. トップテープの剥離強度 (剥離方向は下図参照)

PEELING OFF FORCE OF TOP TAPE (PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)

0.1~1.3N (10~130gf) : キャリアテープ幅24mm~104mm  
0.1~1.3N (10~130gf)

CARRIER TAPE WIDTH 24mm-104mm

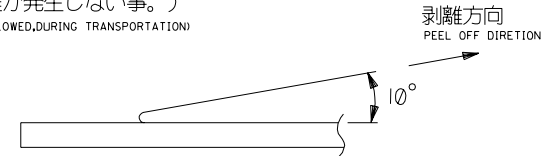
尚、本規格値は、出荷時に適用。

THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT

(但し、輸送時に剥離が発生しない事。)

(PEEL OFF SHOULD NOT BE ALLOWED,DURING TRANSPORTATION)

引き出し方向  
PULL OUT DIRECTION



5. 材料  
MATERIAL

キャリアテープ : ポリプロピレン (PP)

CARRIER TAPE : POLYPROPYLENE (PP)

トップテープ : PET, PE, PEF

TOP TAPE : PET, PE, PEF

リール  
REEL

: キャリアテープ幅 24mm~56mm : ポリスチレン

CARRIER TAPE WIDTH 24mm-56mm : POLYSTYRENE

キャリアテープ幅 72mm~104mm : 紙

CARRIER TAPE WIDTH 72mm-104mm : CARD BOARD

6. 本製品は53625-\*\*\*4の鉛フリー品である。

THIS PRODUCT IS LEAD FREE OF 53625-\*\*\*4.

| 角度 ANGLE | 30°以上 OVER                 | 30°以下 30°未満 UNDER | 10°以上 30°未満 UNDER | 10°以下 UNDER |
|----------|----------------------------|-------------------|-------------------|-------------|
| +        | +0.3                       | +0.25             | +0.2              |             |
| 0        | 新規作成 RELEASED (J2004-4233) |                   |                   |             |
| 1        | 変更内容                       |                   |                   |             |
| 2        | 記号 LTR                     | REVISION RECORD   | DR. CHK.          | DATE        |
| 3        |                            |                   |                   |             |
| 4        |                            |                   |                   |             |
| 5        |                            |                   |                   |             |
| 6        |                            |                   |                   |             |
| 7        |                            |                   |                   |             |
| 8        |                            |                   |                   |             |

材料 MATERIAL  
注参照 SEE NOTES

仕上げ FINISH

適用電線範囲 WIRE RANGE

被覆外径 INS. RANGE

DRAWN BY '04/05/14 Y.WADA

CHK'D BY '04/05/14 M.SASAO

APP'D BY '04/05/14 M.SASAO

尺度 SCALE

MODEL NO. 53625-\*\*\*74

MOLEX-JAPAN CO.,LTD.  
日本モレックス株式会社

REVISE ONLY ON CAD SYSTEM

TITLE 名称  
53625-\*\*\*72  
TAPING PACKAGE  
-LEAD FREE-

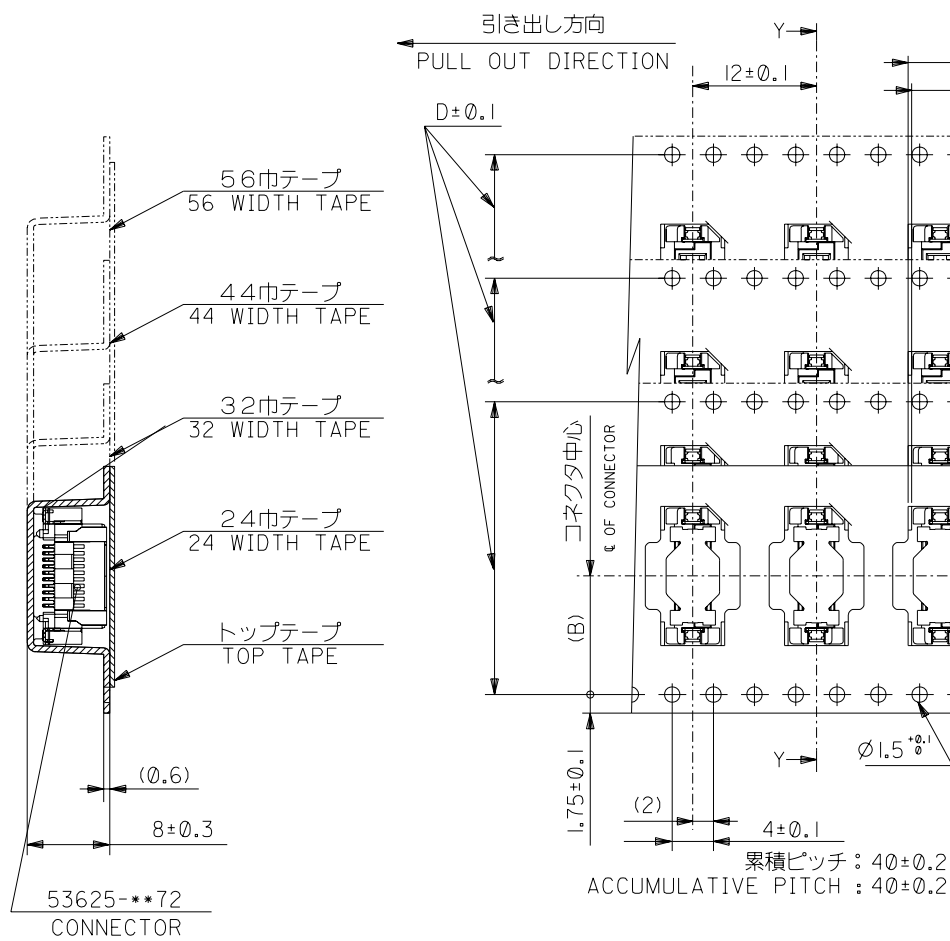
DWG. NO. (SHEET 1 OF 3)  
SD-53625-003

REV 0

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EN-01C(032)MXJ-32



|      |      |      |                    |      |      |            |     |   |
|------|------|------|--------------------|------|------|------------|-----|---|
| 61.4 | 57.4 | 52.4 | 56 <sup>±0.3</sup> | 26.2 | 38.9 | 53625-1074 | 100 | — |
|      |      |      |                    |      | 35.8 | -0974      | 90  | ○ |
| 49.4 | 45.4 | 40.4 | 44 <sup>±0.3</sup> | 20.2 | 32.6 | -0874      | 80  | ○ |
|      |      |      |                    |      | 29.4 | -0774      | 70  | — |
|      |      |      |                    |      | 28.8 | -6874      | 68  | — |
|      |      |      |                    |      | 26.2 | -0674      | 60  | — |
|      |      |      |                    |      | 23.1 | -0574      | 50  | ○ |
| 37.4 | 33.4 | 28.4 | 32 <sup>±0.3</sup> | 14.2 | 19.9 | -0474      | 40  | ○ |
| 29.4 | 25.4 | —    | 24 <sup>±0.3</sup> | 11.5 | 16.7 | -0374      | 30  | ○ |
| F    | E    | D    | C                  | (B)  | (A)  | 53625-0274 | 20  | — |

キャリアテープ幅  
CARRIER TAPE WIDTH

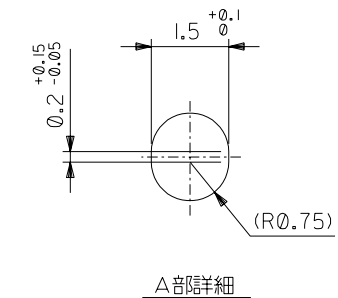
(B)

(A)

MATERIAL NO.

極数  
NO. OF (XTS.) AVAILABLE

量産対応



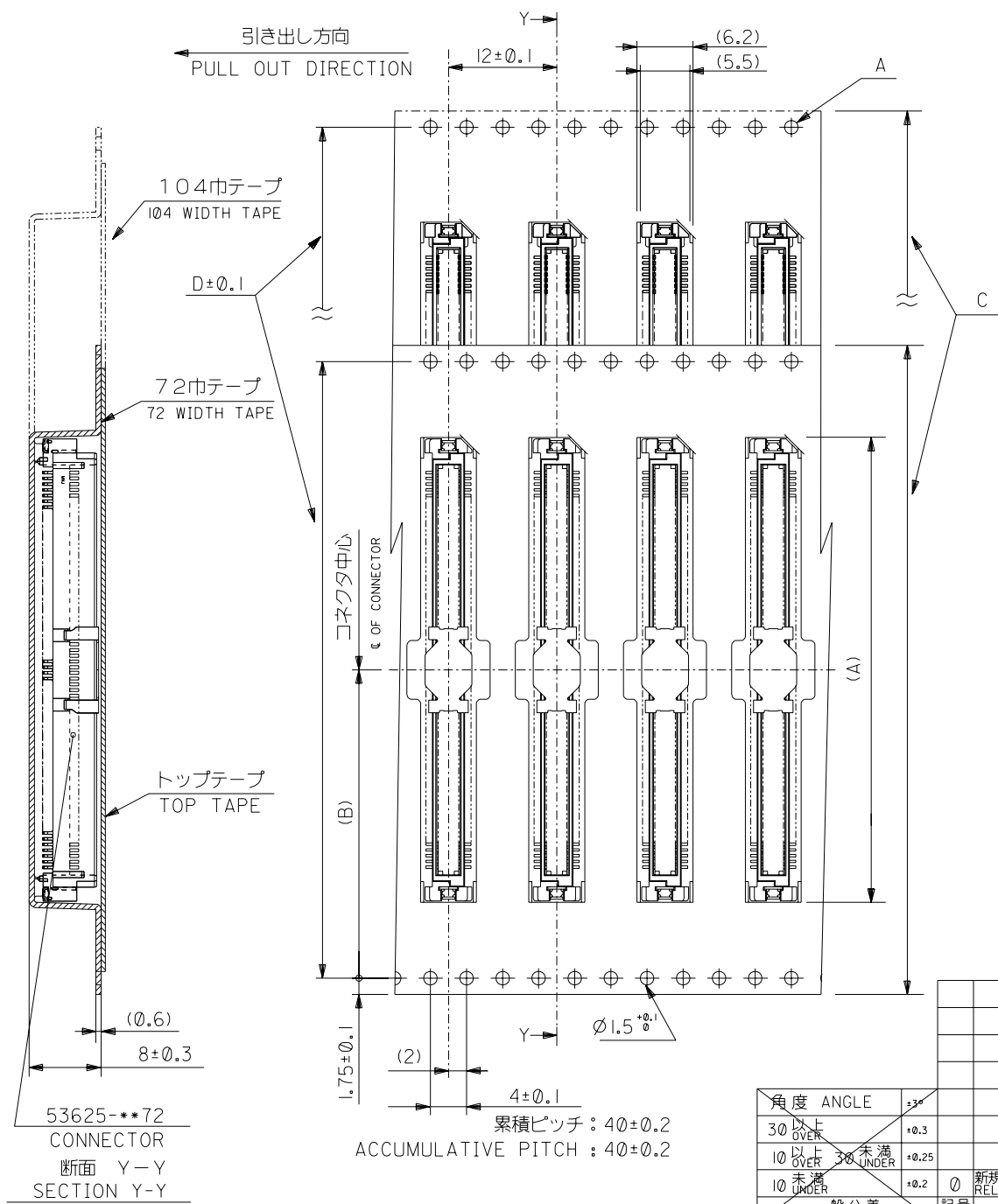
| 角度 ANGLE                  | 公差 TOLERANCE |
|---------------------------|--------------|
| 30°以上 OVER                | ±0.3         |
| 10°以上 30°未満 OVER 30 UNDER | ±0.25        |
| 未満 10° UNDER              | ±0.2         |

一般公差  
GENERAL TOLERANCES

| 記号 LTR   | 変更内容 REVISION RECORD       | 日付 DATE  |
|----------|----------------------------|----------|
| 0        | 新規作成 RELEASED (J2004-4233) | 04/05/14 |
| DR. CHK. |                            |          |

|                           |                           |
|---------------------------|---------------------------|
| 材料 MATERIAL               | 注参照 SEE NOTES             |
| 仕上げ FINISH                | —                         |
| 適用電線範囲 WIRE RANGE         | —                         |
| 被覆外径 INS. RANGE           | —                         |
| DRAWN BY 04/05/14 Y.WADA  | CHK'D BY 04/05/14 M.SASAO |
| APP'D BY 04/05/14 M.SASAO | 尺度 SCALE —                |

|                                                       |          |
|-------------------------------------------------------|----------|
| MODEL NO.                                             | 53625-74 |
| MOLEX-JAPAN CO.,LTD.<br>日本モレックス株式会社                   |          |
| REVISE ONLY ON CAD SYSTEM                             |          |
| TITLE 名称<br>53625-72<br>TAPING PACKAGE<br>-LEAD FREE- |          |
| DWG. NO. (SHEET 2 OF 3)                               | REV 0    |
| SD-53625-003                                          |          |



|       |       |         |                                |      |            |              |                              |
|-------|-------|---------|--------------------------------|------|------------|--------------|------------------------------|
| 104.4 | 100.4 | 104±0.3 | 50.2                           | 83.4 | 53625-2474 | 240          | ○                            |
| 72.4  | 68.4  | 72±0.3  | 34.2                           | 58   | 53625-1674 | 160          | ○                            |
|       |       |         |                                | 51.6 | 53625-1474 | 140          | ○                            |
|       |       |         |                                | 45.3 | 53625-1274 | 120          | ○                            |
| E     | D     | C       | キャリアテープ幅<br>CARRIER TAPE WIDTH | (B)  | (A)        | MATERIAL NO. | 極数<br>NO. OF (XTS) AVAILABLE |

|                               |  |                               |  |                                             |  |            |  |
|-------------------------------|--|-------------------------------|--|---------------------------------------------|--|------------|--|
| 材料<br>MATERIAL                |  |                               |  | MODEL NO. 53625-**74                        |  |            |  |
| 注参照<br>SEE NOTES              |  |                               |  | MOLEX-JAPAN CO.,LTD.<br>日本モレックス株式会社         |  |            |  |
| 仕上げ<br>FINISH                 |  |                               |  | REVISE ONLY ON CAD SYSTEM                   |  |            |  |
| 適用電線範囲<br>WIRE RANGE          |  |                               |  | TITLE 名称                                    |  |            |  |
| 被覆外径<br>INS. RANGE            |  |                               |  | 53625-**72<br>TAPING PACKAGE<br>-LEAD FREE- |  |            |  |
| DRAWN BY '04/05/14<br>Y.WADA  |  |                               |  | CHK'D BY '04/05/14<br>M.SASAO               |  |            |  |
| APP'D BY '04/05/14<br>M.SASAO |  |                               |  | 尺度<br>SCALE                                 |  |            |  |
| 角 度 ANGLE                     |  |                               |  | DWG. NO. (SHEET 3 OF 3)                     |  |            |  |
| 30 以上                         |  |                               |  | SD-53625-003                                |  |            |  |
| 10 以上 30 未満                   |  |                               |  | REV                                         |  |            |  |
| 10 未満                         |  |                               |  | 0                                           |  |            |  |
| 一般公差<br>GENERAL TOLERANCES    |  |                               |  |                                             |  |            |  |
| 記号<br>LTR                     |  | 変更内容<br>REVISION RECORD       |  | DR.<br>CHK.                                 |  | 日付<br>DATE |  |
| 0                             |  | 新規作成<br>RELEASED (J2004-4233) |  | Y.W.                                        |  | '04/05/14  |  |