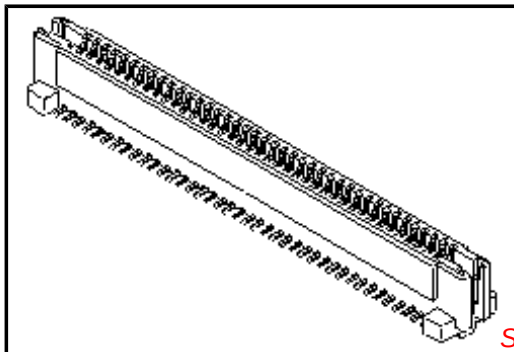
This document was generated on 04/16/2010

# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0525840579

**Status:** Active

**Description:** 1.00mm (.039") Pitch Receptacle, Dual Row Surface Mount, Vertical Stacking, 8.00, 9.00, 10.00, and 18.00mm (.315, .354, .394 and .709") Stacking Heights, 50 Circuits, Lead-free



*Series image - Reference only*

**Documents:**

3D Model
Drawing (PDF)
Product Specification PS-52584-003 (PDF)
RoHS Certificate of Compliance (PDF)

## Agency Certification

| | |
|---|---|
| CSA | LR19980 |
| UL | E29179 |

## General

| | |
|---|---|
| Product Family | PCB Receptacles |
| Series | 52584 |
| Application | Board-to-Board |
| Product Name | SlimStack™ |

## Physical

| | |
|---|---|
| Circuits (Loaded) | 50 |
| Color - Resin | Natural |
| Durability (mating cycles max) | 50 |
| Flammability | 94V-0 |
| Glow-Wire Compliant | No |
| Material - Metal | Phosphor Bronze |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Number of Rows | 2 |
| Orientation | Vertical |
| PCB Locator | Yes |
| PCB Retention | None |
| Packaging Type | Tube |
| Pitch - Mating Interface (in) | 0.039 In |
| Pitch - Mating Interface (mm) | 1.00 mm |
| Plating min: Mating (µin) | 10 |
| Plating min: Mating (µm) | 0.25 |
| Plating min: Termination (µin) | 80 |
| Plating min: Termination (µm) | 2 |
| Polarized to PCB | No |
| Surface Mount Compatible (SMC) | N/A |
| Temperature Range - Operating | -55°C to +85°C |
| Termination Interface: Style | Surface Mount |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 0.5A |
| Voltage - Maximum | 100V |

## Material Info

## Reference - Drawing Numbers

| | |
|---|---|
| Product Specification | PS-52584-003, RPS-52584-010 |
| Sales Drawing | SD-52584-007, SD-52584-008, SD-52584-009 |

**EU RoHS**
ELV and RoHS Compliant
**REACH SVHC**
Contains SVHC: No
**Halogen-Free Status**
Not Reviewed

**China RoHS**

**Need more information on product environmental compliance?**

Email 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**
52584Series

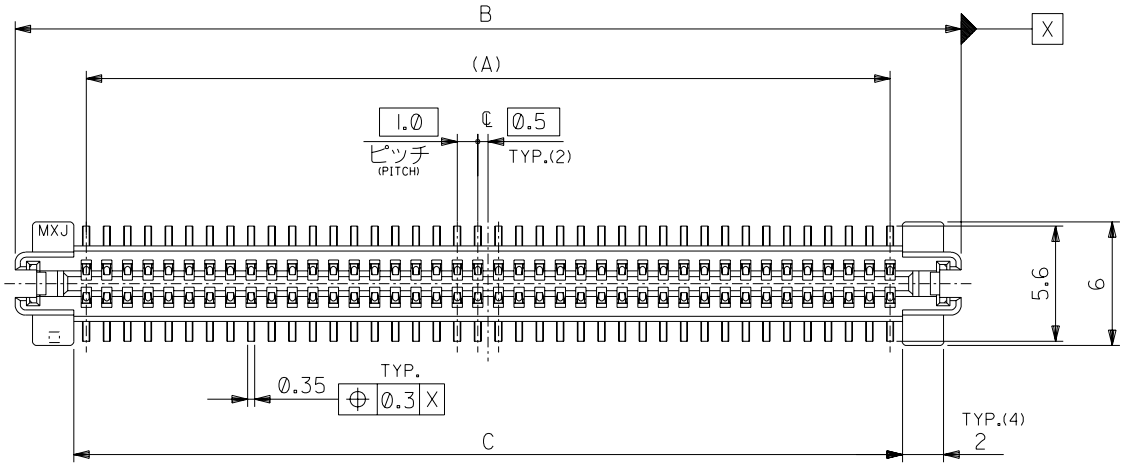
**Mates With**
53395 , 53408

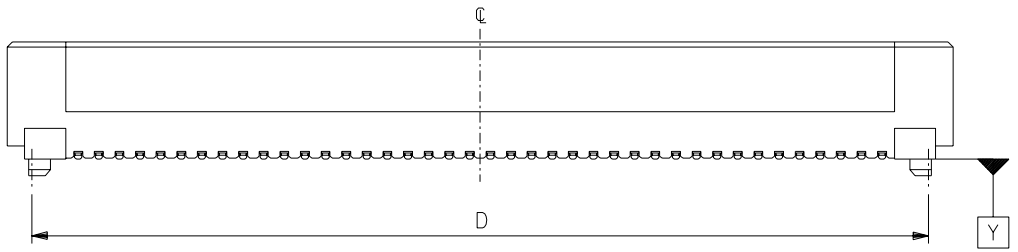
This document was generated on 04/16/2010

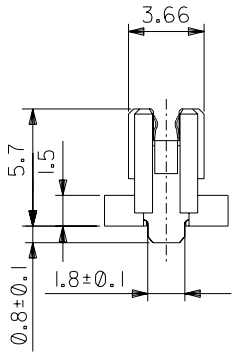
**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

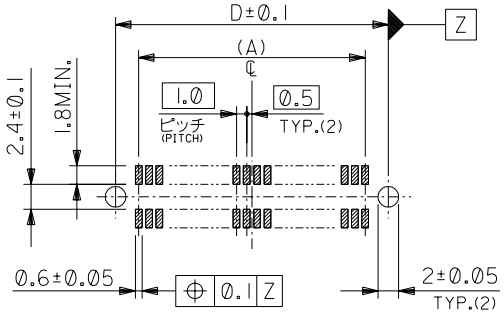
DWG. NO. SD-52584-007

:MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

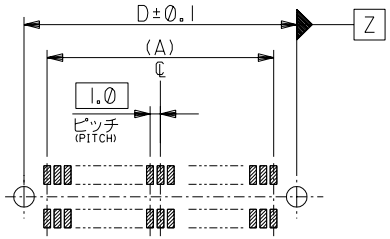



推奨基板寸法（20、60、80、84、100、120、140極）
RECOMMENDED PCB PATTERN LAYOUT (20,60,80,84,100,120,140 CKTS.)




推奨基板寸法（34，50，66極）
RECOMMENDED PCB PATTERN LAYOUT (34,50,66 CKTS.)

注）
NOTES

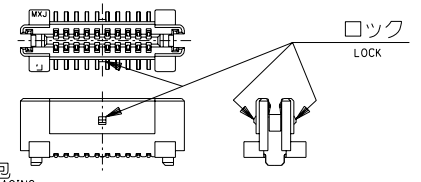
1. 材質
MATERIAL
ハウジング：ガラス入りＬＣＰ、白色、ＵＬ９４Ｖ－０
HOUSING:G.F.LCP,WHITE UL94V-0
ターミナル：燐青銅（ｔ＝0.2）
TERMINAL:PHOSPHOR BRONZE

2. メッキ仕様
PLATING
接点部 ：金メッキ 0.25 マイクロメートル以上。
CONTACT AREA:GOLD 0.25 MICROMETER MINIMUM.
半田付け部：錫メッキ 1.0 マイクロメートル以上。
SOLDER TAIL AREA:TIN 1.0 MICROMETER MINIMUM.
下地メッキ：ニッケルメッキ 2.0 マイクロメートル以上。
UNDER-PLATING:NICKEL 2.0 MICROMETER MINIMUM.

3. 推奨基板厚
RECOMMENDED PCB THICKNESS
1.0±0.1mm MIN.

4. テールのバラツキ寸法
TAIL COPLANARITY
テールは、Ｙ面を基準とし、上へ 0.02 下へ 0.15 の範囲にあり、且つテール平坦度は 0.15 とする。
TAILS TO BE WITHIN 0.02 UPWARD AND 0.15 DOWNWARD FROM Y-DATUM PLANE, AND TAIL COPLANARITY TO BE 0.15.

5. ロックは、２０，３４，５０極に設置する。
LOCK TO BE ADDED TO 20,34 AND 50 CKTS.




6. 梱包
PACKAGING
本製品はスティック梱包とし梱包後の MATERIAL NO.は 52584-**79 とする。
THIS PRODUCTS TO BE PACKED IN TUBE . MATERIAL NO.: 52584-**79

7. 同一基板内に複数個（２ケ以上）の使用は避けてください。
MXJ DOSE NOT RECOMMEND THE USAGE OF TWO OR MORE OF THESE CONNECTORS BETWEEN A SINGLE PAIR OF P.C.BOARD.

8. 本製品は 52584-***0 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 52584-***0.

| D | C | B | (A) | MATERIAL NO. | 極数 NO.OF CKTS. |
|---|---|---|---|---|---|
| 73.5 | 70.2 | 75.9 | 69 | 52584-1408 | 140 |
| 63.5 | 60.2 | 65.9 | 59 | 52584-1208 | 120 |
| 53.5 | 50.2 | 55.9 | 49 | 52584-1008 | 100 |
| 45.5 | 42.2 | 47.9 | 41 | 52584-0848 | 84 |
| 43.5 | 40.2 | 45.9 | 39 | 52584-0808 | 80 |
| 36.5 | 33.2 | 38.9 | 32 | 52584-0668 | 66 |
| 33.5 | 30.2 | 35.9 | 29 | 52584-0608 | 60 |
| 28.5 | 25.2 | 30.9 | 24 | 52584-0508 | 50 |
| 20.5 | 17.2 | 22.9 | 16 | 52584-0348 | 34 |
| 13.5 | 10.2 | 15.9 | 9 | 52584-0208 | 20 |

| 角度 ANGLE | ±3° |
|---|---|
| 30以上 OVER | ±0.3 |
| 10以上 OVER 30未満 UNDER | ±0.25 |
| 10未満 UNDER | ±0.2 |
| 一般公差 GENERAL TOLERANCES | |

| 記号 LTR | 変更内容 REVISION RECORD | DR. CHK. | 日付 DATE |
|---|---|---|---|
| 0 | 新規作成 RELEASED (J2004-3257) | H.K K.T | '04/03/22 |

| | |
|---|---|
| 材料 MATERIAL | 注参照 SEE NOTES |
| 仕上げ FINISH | 注参照 SEE NOTES |
| 適用電線範囲 WIRE RANGE | |
| 被覆外径 INS. RANGE | |
| DRAWN BY '04/03/22 H.KAWABATA | CHK'D BY '04/03/22 K.TOJO |
| APP'D BY '04/03/22 M.SASAO | 尺度 SCALE |

MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社

REVISE ONLY ON CAD SYSTEM

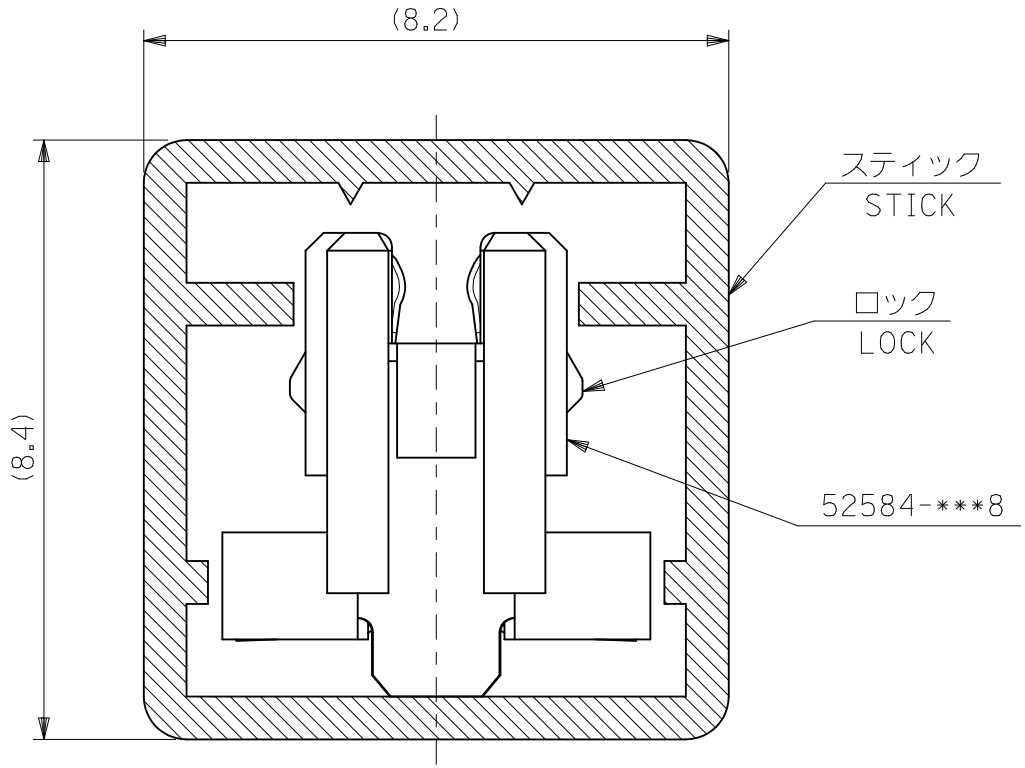
TITLE 名称
1.0 B-TO-B
S/T REC. HS'G ASS'Y
-LEAD FREE-

DWG. NO. SD-52584-007 REV 0

SD-52584-007.S01 A

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EN-0IC(032)MXJ-32




注記
NOTES

1. スティック両端はキャップ止め。
   BOTH ENDS WITH CAPS.
2. 全　長：600±2
   TOTAL LENGTH
3. 肉　厚：0.6±0.2
   THICKNESS
4. ロックは、20，34，50極に設置。
   LOCK TO BE ADDED TO 20, 34
   AND 50 CKTS.
5. 本製品は52584−***9の鉛フリー品である。
   THIS PRODUCT IS LEAD FREE OF 52584-***9.

| MODEL No. | 梱包数 QUANTITY | MATERIAL No. | 極数 NO. OF CKTS. |
|---|---|---|---|
| | 7 | 52584-1479 | 140 |
| | 8 | 52584-1279 | 120 |
| | 10 | 52584-1079 | 100 |
| | 12 | 52584-0879 | 80 |
| | 14 | 52584-6679 | 66 |
| | 15 | 52584-0679 | 60 |
| | 18 | 52584-0579 | 50 |
| | 24 | 52584-3479 | 34 |
| 52584-**79 | 35 | 52584-0279 | 20 |

MATERIAL

スティック：ポリ塩化ビニル
STICK : P.V.C

REVISED
EC NO: J2010-1409 2010/01/13
DRWN:RTSURUOKA 2010/01/14
CH'KD:THARUYAMA 2010/01/14
APPR:HHIRATA 2010/01/14
DESCRIPTION
REV
A

GENERAL TOLERANCES (UNLESS SPECIFIED)

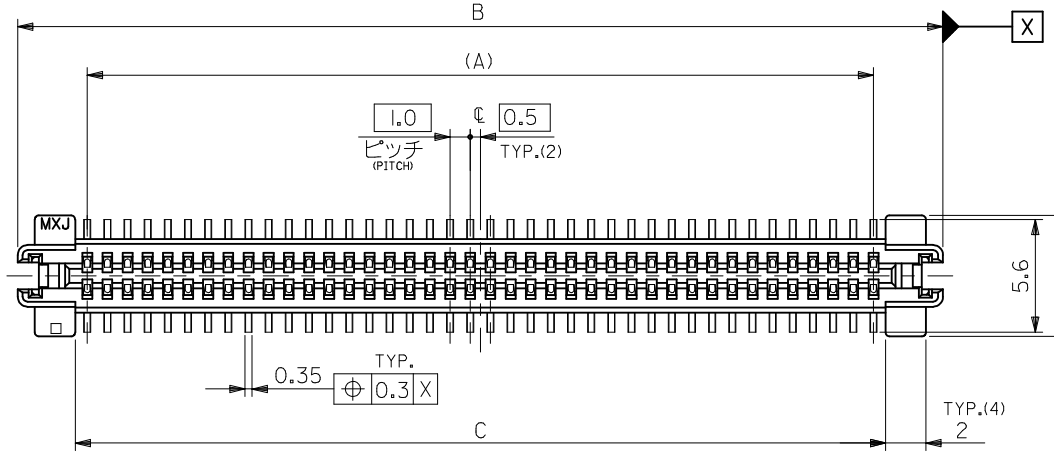
| | |
|---|---|
| 10 UNDER | ±0.2 |
| 10 OVER 30 UNDER | ±0.25 |
| 30 OVER | ±0.3 |
| ANGULAR ±3 ° | |

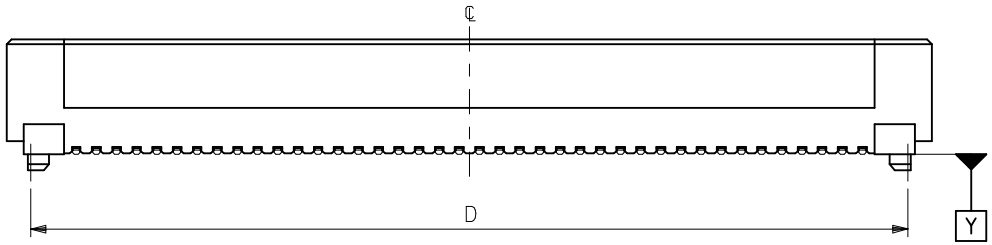
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

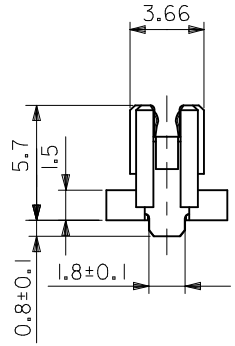
| | | | |
|---|---|---|---|
| DIMENSION STYLE: MM ONLY | SCALE: --- | DESIGN UNITS: METRIC | THIRD ANGLE PROJECTION |
| DRAWN BY: HKAWABATA | DATE: '04/03/22 | TITLE: 52584-***8 STICK PACKAGING -LEAD FREE- | |
| CHECKED BY: KTOJO | DATE: '04/03/22 | | |
| APPROVED BY: MSASAO | DATE: '04/03/22 | molex MOLEX INCORPORATED | |
| MATERIAL NO.: SEE TABLE | | DOCUMENT NO.: SD-52584-008 | SHEET NO.: 1 OF 1 |

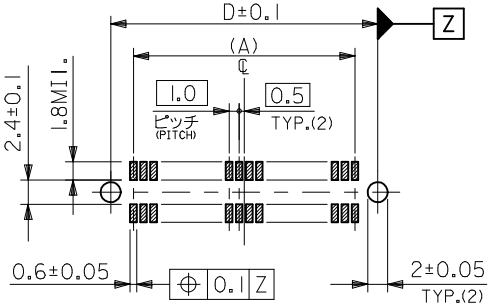
SIZE A4

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

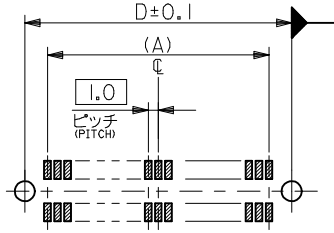


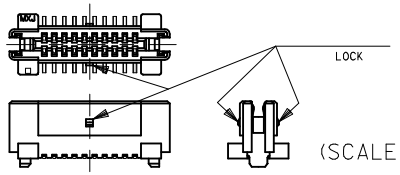

推奨基板寸法（20、60、80、84、100、120、140極）
RECOMMENDED PCB PATTERN LAYOUT (20,60,80,84,100,120,140 CKTS.)
(SCALE 2-1)




推奨基板寸法（34，50，66極）
RECOMMENDED PCB PATTERN LAYOUT (34,50,66 CKTS.)
(SCALE 2-1)

注）
NOTES

1. 材質
MATERIAL
ハウジング：ガラス入りＬＣＰ、白色、ＵＬ９４Ｖ－０
HOUSING:G.F.LCP,WHITE ,UL94V-0
ターミナル：燐青銅（ｔ＝0.2）
TERMINAL:PHOSPHOR BRONZE
2. メッキ仕様
PLATING
接点部 ：金メッキ0.25μmＭＩＮ。
CONTACT AREA:GOLD 0.25μmMIN.
半田付け部：半田メッキ1.0μmＭＩＮ。
SOLDER TAIL AREA:TIN-LEAD 1.0μmMIN.
下地メッキ：ニッケルメッキ 2.0μmＭＩＮ。
UNDER-PLATING:NICKEL 2.0μmMIN.
3. 推奨基板厚
RECOMMENDED PCB THICKNESS
1.0±0.1mm MIN.
4. テールのバラツキ寸法
TAIL COPLANARITY
テールは、Ｙ面を基準とし、上へ 0.02 下へ 0.15 の範囲にあり、且つテール平坦度は 0.15 とする。
TAILS TO BE WITHIN 0.02 UPWARD AND 0.15 DOWNWARD FROM Y-DATUM PLANE, AND TAIL COPLANARITY TO BE 0.15.
5. ロックは、２０，３４，５０極に設置する。
LOCK TO BE ADDED TO 20,34 AND 50 CKTS.




6. 梱包
PACKAGING
本製品はスティック梱包とし梱包後のＥＮＧ。ＮＯ。は５２５８４－＊＊＊９とする。
THIS PRODUCTS TO BE PACKED IN TUBE , ENG.NO.:52584-***9
7. 同一基板内に複数個（２ケ以上）の使用は避けてください。
MXJ DOSE NOT RECOMMEND THE USAGE OF TWO OR MORE OF THESE CONNECTORS BETWEEN A SINGLE PAIR OF P.C.BOARD.

| D | C | B | (A) | ENG. NO. | 極数 NO.OF CKTS. |
|---|---|---|---|---|---|
| 73.5 | 70.2 | 75.9 | 69 | 52584-1400 | 140 |
| 63.5 | 60.2 | 65.9 | 59 | 52584-1200 | 120 |
| 36.5 | 33.2 | 38.9 | 32 | 52584-0660 | 66 |
| 33.5 | 30.2 | 35.9 | 29 | 52584-0600 | 60 |
| 28.5 | 25.2 | 30.9 | 24 | 52584-0500 | 50 |
| 20.5 | 17.2 | 22.9 | 16 | 52584-0340 | 34 |
| 13.5 | 10.2 | 15.9 | 9 | 52584-0200 | 20 |

REVISED
EC NO:
DRWN:YOSHIDAM 2008/11/06
CH'KD:THARUYAMA 2009/03/23
APPR:THARUYAMA 2009/03/25
DESCRIPTION
REV
J

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | |
|---|---|
| 10 UNDER | ±0.2 |
| 10 OVER 30 UNDER | ±0.25 |
| 30 OVER | ±0.3 |
| ANGULAR | ±3 ° |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: J.MIYAZAWA DATE
CHECKED BY: M.SASAO DATE
APPROVED BY: H.IKESUGI DATE
MATERIAL NO.: SEE TABLE

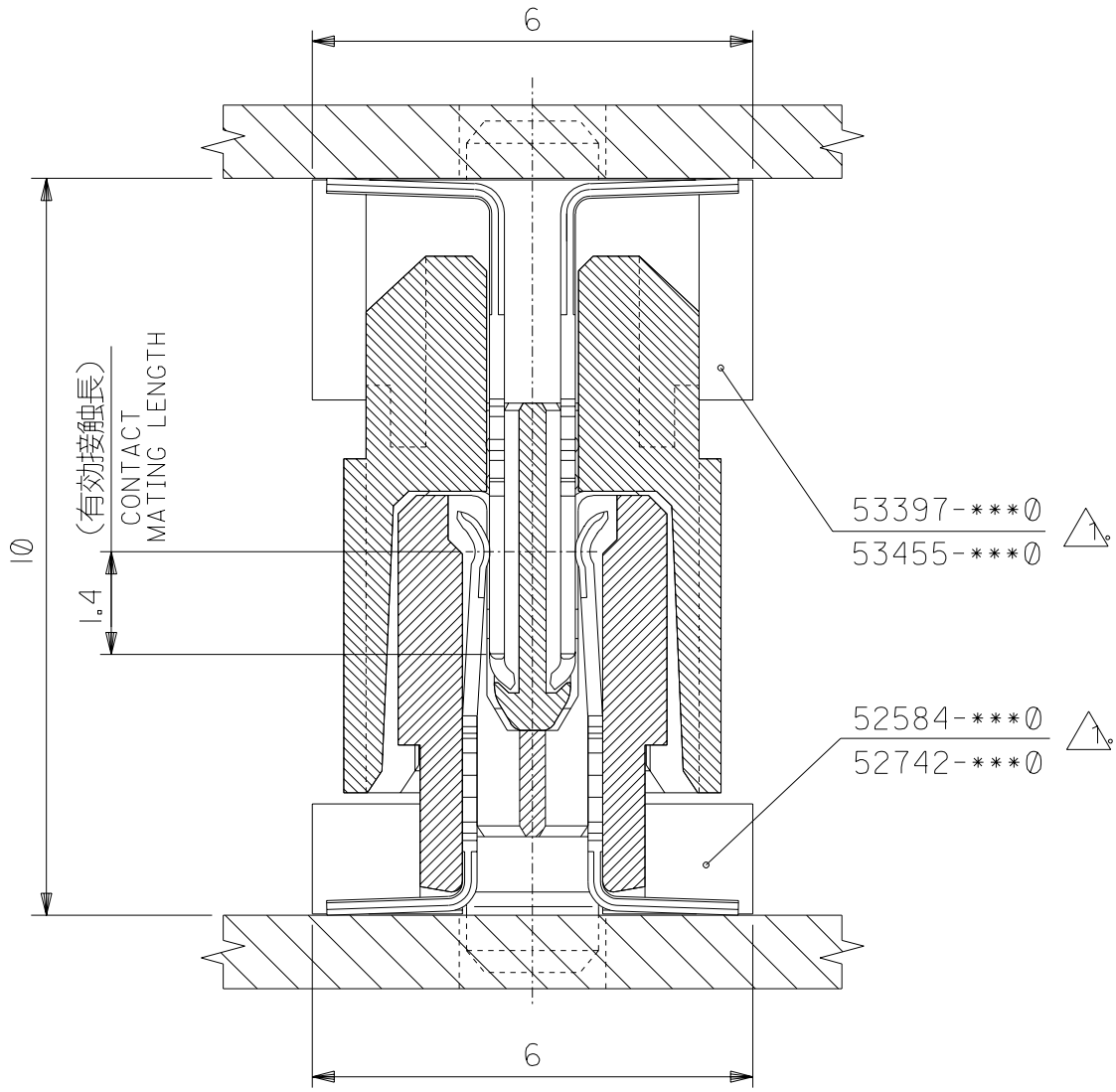
TITLE: 1.0 B-TO-B S/T REC. HSG ASSY

molex MOLEX INCORPORATED

DOCUMENT NO.: SD-52584-009
SHEET NO.: 1 OF 1
SIZE: A3

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DWG. NO.
SD-53397-***0/52584-***0
SD-53455-***0/52742-***0




注記
NOTES

1. 53397-***0 / 52584-***0 〉ネール無し品 WITHOUT NAIL
53455-***0 / 52742-***0 〉ネール有り品 WITH NAIL

| 角度 ANGLE | ±3° |
|---|---|
| 30 以上 OVER | ±0.3 |
| 10 以上 OVER 30 未満 UNDER | ±0.25 |
| 10 未満 UNDER | ±0.2 |
| 一般公差 GENERAL TOLERANCES | |

: MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

| LTR | 記号 | REVISION RECORD 変更内容 | DR. / CHK. | DATE 日付 |
|---|---|---|---|---|
| A | 変更 REVISED | (T40044) | S.A / J.M | '94/01/27 |
| 0 | 新規作成 RELEASED | (T20452) | J.M / M.S | '92/10/27 |

材料 MATERIAL
仕上げ FINISH
適用電線範囲 WIRE RANGE
被覆外径 INS. RANGE

DRAWN BY J. Miyazawa
CHK'D BY M. Arao
APP'D BY A. Hasegawa
尺度 SCALE 10-1

MOLEX-JAPAN CO.,LTD.
日本モレックス株式会社

REVISE ONLY ON CAD SYSTEM

TITLE 名称
1.0 B-TO-B CONNECTOR 嵌合図
CROSS-SECTION VIEW
OF MATED CONNECTORS

DWG. NO.
SD-53397-***0/52584-***0
SD-53455-***0/52742-***0

REV A

ZF3:110,03113SM6533970.DGN

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EN-0IC(032)MX 1-33