

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

**Part Number:** [0525840279](#)  
**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, 20 Circuits, Lead-free

**Documents:**

<a href="#">3D Model</a>	<a href="#">Product Specification PS-52584-003 (PDF)</a>
<a href="#">Drawing (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>
<a href="#">Product Specification PS-52584-002 (PDF)</a>	

**Agency Certification**

CSA	LR19980
UL	E29179

**General**

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

**Physical**

Circuits (Loaded)	20
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

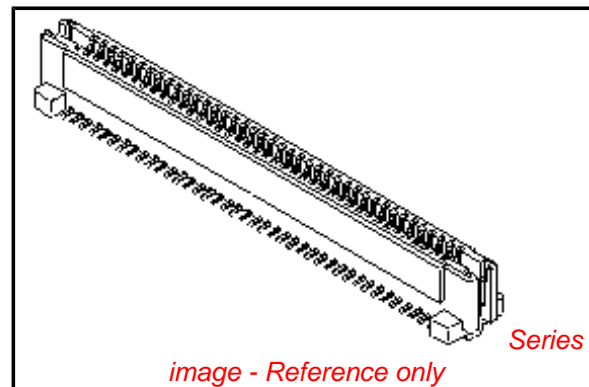
**Electrical**

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

**Material Info**

**Reference - Drawing Numbers**

Product Specification	PS-52584-002, 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](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**

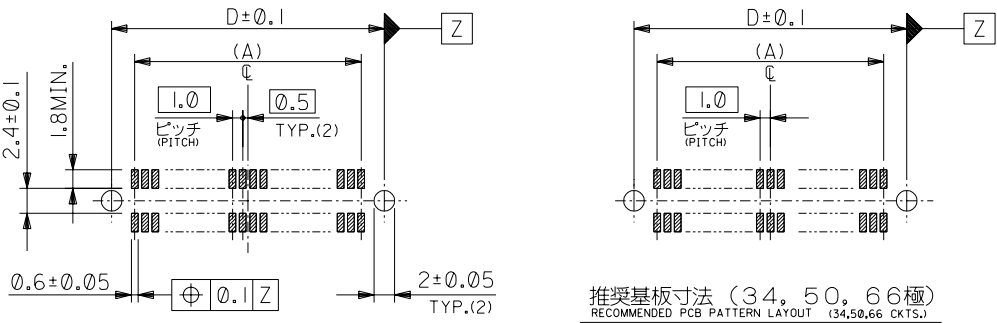
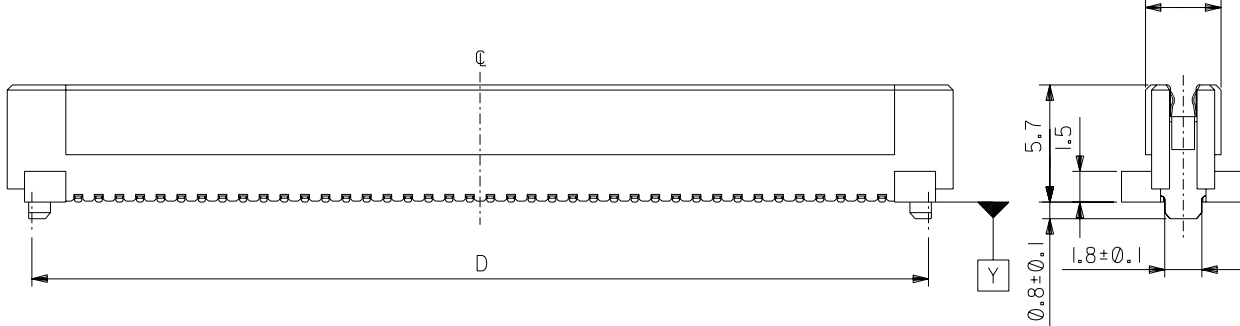
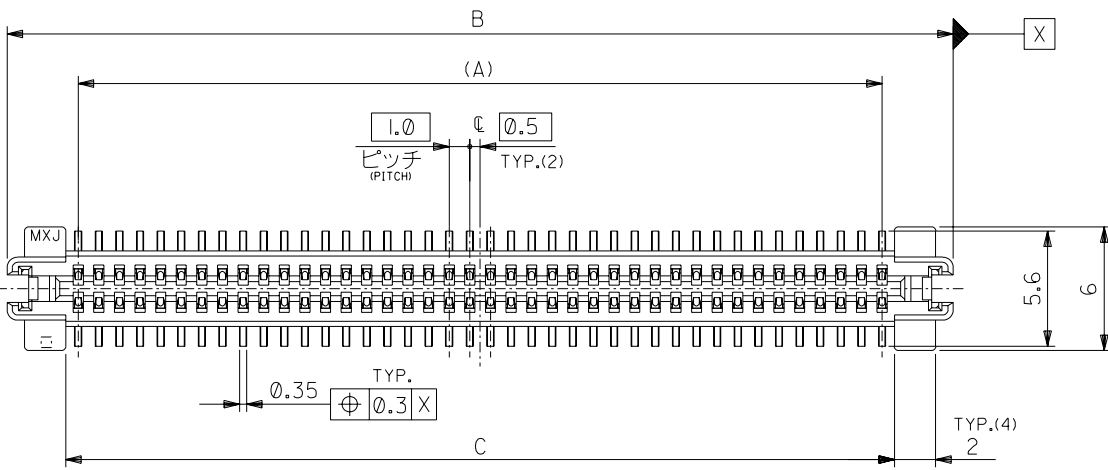
52584Series

**Mates With**

53395 , 53408

This document was generated on 04/16/2010

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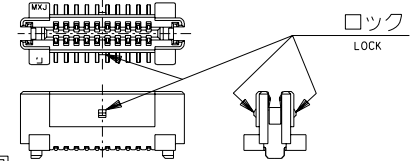


推奨基板寸法 (20, 60, 80, 84, 100, 120, 140極)  
RECOMMENDED PCB PATTERN LAYOUT (20,60,80,84,100,120,140 CKTS.)

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

注) NOTES

- 材質 MATERIAL**  
ハウジング: ガラス入りLCP、白色、UL94V-0  
HOUSING: F.LCP, WHITE, UL94V-0  
ターミナル: 燐青銅 (t=0.2)  
TERMINAL: PHOSPHOR BRONZE
- 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.
- 推奨基板厚 RECOMMENDED PCB THICKNESS**  
1.0±0.1mm MIN.
- 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、目付テール平坦度は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.
- ロックは、20, 34, 50極に設置する。 LOCK TO BE ADDED TO 20, 34 AND 50 CKTS.**
- 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
- 同一基板内に複数個 (2ヶ以上) 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.**
- 本製品は 52584-\*\*\*0 の鉛フリー品である。 THIS PRODUCT IS LEAD FREE OF 52584-\*\*\*0.**



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
D	C	B	(A)	MATERIAL NO.	極数 NO. OF CKTS.

角度 ANGLE	±3°	材料 MATERIAL	注参照 SEE NOTES	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-T0-B S/T REC.HS'G ASS'Y -LEAD FREE- DWG. NO. SD-52584-007 REV 0
30°以上 OVER	+0.3	仕上げ FINISH	注参照 SEE NOTES	
10°以上 OVER 30°未満 UNDER	+0.25	適用電線範囲 WIRE RANGE	—#—	
未満 10° UNDER	+0.2	被覆外径 INS. RANGE	—#—	
一般公差 GENERAL TOLERANCES	記号 LTR	変更内容 REVISION RECORD	DR. CHK. DATE	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 —#—

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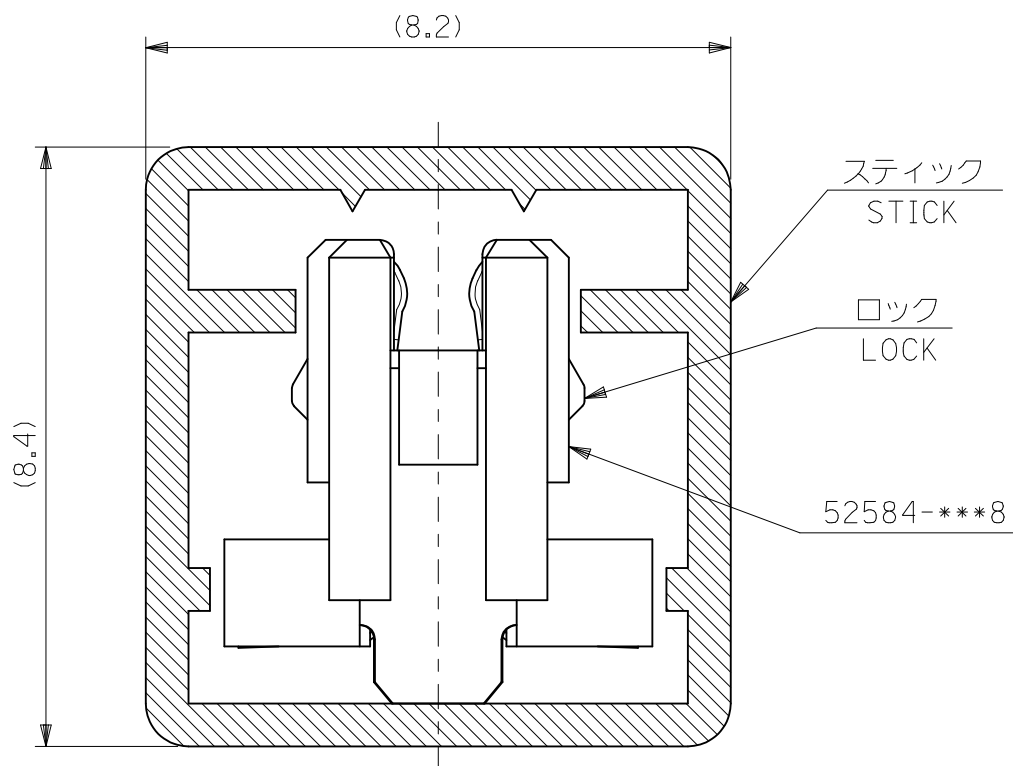
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注記  
NOTES

1. スティック両端はキャップ止め。  
BOTH ENDS WITH CAPS.
2. 全 長:  $600 \pm 2$   
TOTAL LENGTH
3. 肉 厚:  $0.6 \pm 0.2$   
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.



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
MODEL No.	梱包数 QUANTITY	MATERIAL No.	極数 NO. OF CKTS.

MATERIAL

スティック: ポリ塩化ビニル  
STICK: P.V.C

REVISED  
EC NO: J2010-1409  
DRW: RTSURUOKA 2010/01/13  
CHKD: THARUYAMA 2010/01/14  
APPR: HIRATA 2010/01/14

GENERAL TOLERANCES (UNLESS SPECIFIED)	
10 UNDER	$\pm 0.2$
10 OVER 30 UNDER	$\pm 0.25$
30 OVER	$\pm 0.3$
ANGULAR	$\pm 3^\circ$
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE  
MM ONLYSCALE  
---DESIGN UNITS  
METRICTHIRD ANGLE  
PROJECTION

DRAWN BY	DATE
HKAWABATA	'04/03/22
CHECKED BY	DATE
KTOJO	'04/03/22
APPROVED BY	DATE
MSASAO	'04/03/22
MATERIAL NO.	

TITLE	52584-***8 STICK PACKAGING -LEAD FREE-
molex MOLEX INCORPORATED	
DOCUMENT NO.	SD-52584-008
SHEET NO.	1 OF 1

SEE TABLE

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

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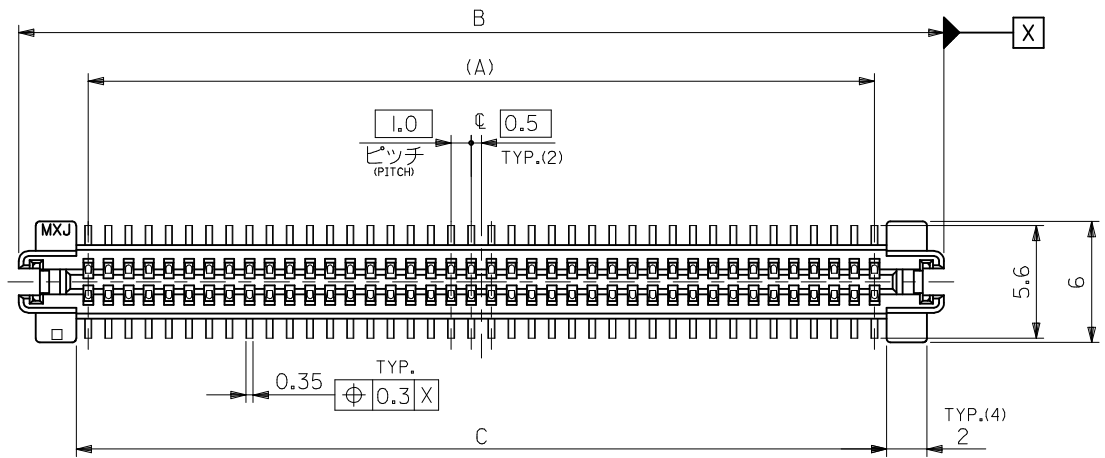
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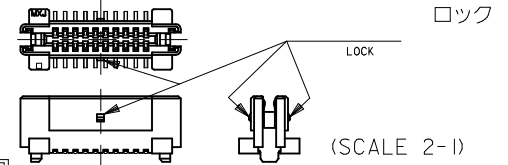
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EN-02CA(021)

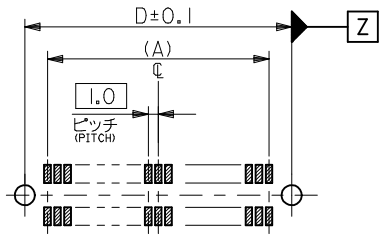
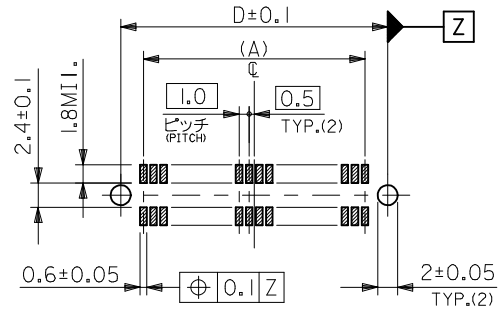
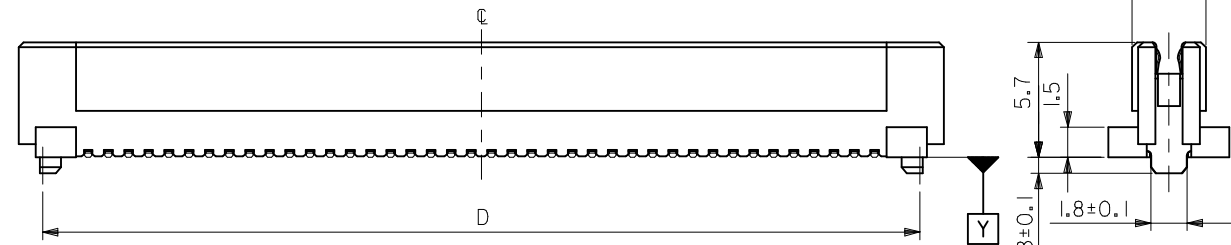


注) NOTES

1. 材質 MATERIAL  
ハウジング: ガラス入り LCP、白色、UL 94V-0  
TERMINAL: 燐青銅 (t = 0.2)
2. メッキ仕様 PLATING  
接点部: 金メッキ 0.25 μm MIN.  
CONTACT AREA: GOLD 0.25 μm MIN.  
半田付け部: 半田メッキ 1.0 μm MIN.  
SOLDER TAIL AREA: TIN-LEAD 1.0 μm MIN.  
下地メッキ: ニッケルメッキ 2.0 μm MIN.  
UNDER-PLATING: NICKEL 2.0 μm MIN.
3. 推奨基板厚 RECOMMENDED PCB THICKNESS  
1.0 ± 0.1 mm 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 の範囲にのみ、目つテール平坦度は 0.15 とする。  
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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。  
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7. 同一基板内に複数個 (2ヶ以上) の使用は避けてください。  
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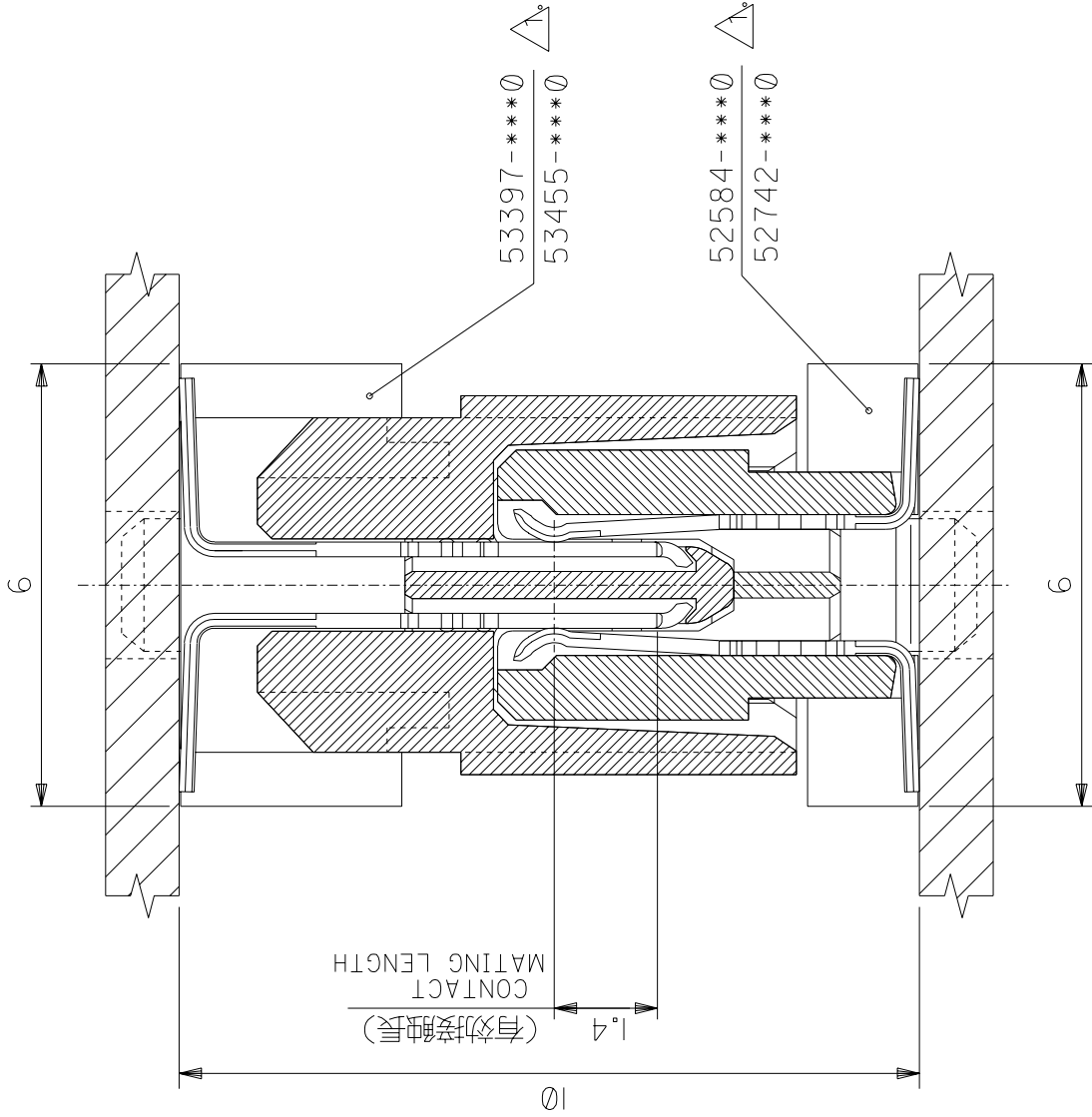
推奨基板寸法 (20, 60, 80, 84, 100, 120, 140 極)  
RECOMMENDED PCB PATTERN LAYOUT (20,60,80,84,100,120,140 CKTS.)  
(SCALE 2-1)

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

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
D	C	B	(A)	ENG. NO.	極数 NO. OF CKTS.

REVISED EC NO: J	2008/11/06 DRWN: YOSHIDAM	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
	2009/03/23 CHKD: THARUYAMA		10 UNDER ±0.2	DRAWN BY J. MIYAZAWA	DATE	TITLE 1.0 B-T0-B S/T REC. HSG ASSY				
	2009/03/25 APPR: THARUYAMA		10 OVER 30 UNDER ±0.25	CHECKED BY M. SASAO	DATE	MOLEX INCORPORATED				
			30 OVER ±0.3	APPROVED BY H. IKESUGI	DATE	DOCUMENT NO. SD-52584-009				
			ANGULAR ±3 °	MATERIAL NO. SEE TABLE		SHEET NO. 1 OF 1				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

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



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

MM  
DIMENSIONS IN METRIC DO NOT SCALE DRAWING

注記  
NOTES

- 53397-\*\*\*0 } ネール無し品  
WITHOUT NAIL
- 52584-\*\*\*0 }
- 53455-\*\*\*0 } ネール有り品  
WITH NAIL
- 52742-\*\*\*0 }

材料	MATERIAL	— # —
仕上げ	FINISH	— # —
適用電線範囲	WIRE RANGE	— # —
被覆外径	INS. RANGE	— # —
変更改	REVISED	94/01/27 S.A. J.M.
新規作成	RELEASED	92/10/27 J.M.
記号	LTR	DR. 日付
	REVISION RECORD	CHK. DATE
		CHK'D BY M. Yano
		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-T0-B CONNECTOR 嵌合図  
CROSS-SECTION VIEW  
OF MATED CONNECTORS

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

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FNのICの32)MXY 1-33

TF3:110.03JSMG533970.DCN