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Part Number:

0546840244

Status:

Active

Description:

0.40mm (.016") Pitch Board-to-Board SlimStack™ Receptacle, Surface Mount, Dual Row, Vertical Stacking, 4.00mm (.157") Stacking Height, 24 Circuits

Documents:

3D Model

Drawing (PDF)

Product Specification PS-54684-006 (PDF)

Product Specification PS-54684-008 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Product Name

PCB Receptacles

54684

Board-to-Board

SlimStack™

Physical

Circuits (Loaded)

Circuits (maximum)

Color - Resin

Durability (mating cycles max)

Glow-Wire Compliant

Mated Height (in)

Mated Height (mm)

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to Mating Part

Polarized to PCB

Stackable

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

24

24

Brown

30

No

0.157 In

4.00 mm

Phosphor Bronze

Gold

Gold

High Temperature Thermoplastic

2

Vertical

0.000 In

0.00 mm

No

None

0.000 In

0.00 mm

Embossed Tape on Reel

0.016 In

0.40 mm

0.016 In

0.40 mm

4

0.1

2

0.05

No

No

No

Yes

-25°C to +105°C

Surface Mount

Electrical

Current - Maximum per Contact

Voltage - Maximum

0.3A

30V AC (RMS)/DC

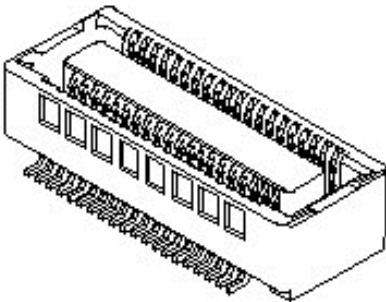


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

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

54684Series

Mates With

501017 PCB Header

Material Info

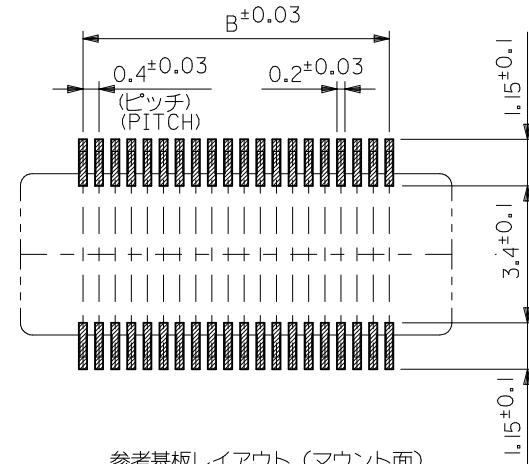
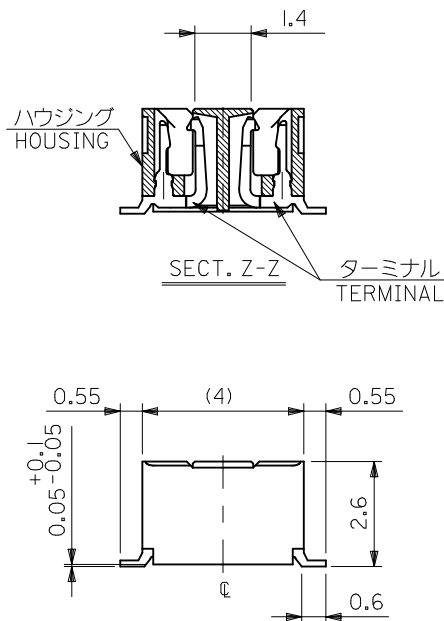
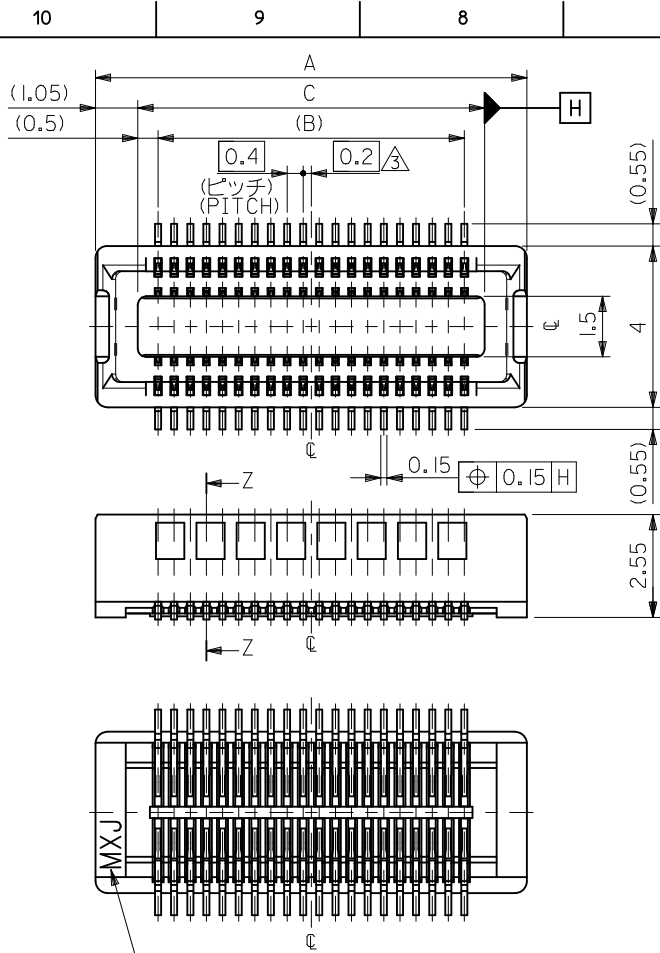
Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-54684-006, PS-54684-008, RPS-54684-014
SD-54684-011, SD-54684-012

This document was generated on 04/07/2010

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参考基板レイアウト (マウント面)
P.C.BOARD
PATTERN DIMENSION. (REF.)
(MOUNTING AREA)

注記 NOTES:

1. 使用材料 MATERIAL

ハウジング: 液晶ポリマー ガラス充填 UL94V-0 茶色
HOUSING: LIQUID CRYSTAL POLYMER
GLASS FILLED UL94V-0
COLOR BROWN

ターミナル: リン青銅 (t=0.15)
TERMINAL: PHOSPHOR BRONZE (t=0.15)

2. メッキ仕様 PLATING

金メッキ 0.10 マイクロメートル以上 (コンタクト部)
GOLD 0.10 MICROMETER MINIMUM (CONTACT AREA)
金メッキ 0.4 マイクロメートル以下 (テール部)
GOLD 0.4 MICROMETER MAXIMUM (TAIL AREA)

下地メッキ: ニッケルメッキ 1.5 マイクロメートル以上
UNDER PLATING: NICKEL 1.5 MICROMETER MINIMUM
*コンタクト部とテール部はニッケルメッキによって分断されている
金メッキで9。

DIVIDE INTO PARTS THE GOLD PLATING OF THE
CONTACT PART AND THE TAIL PART BY THE
NICKEL PLATING.

△ (全極数/2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT/2) = EVEN.

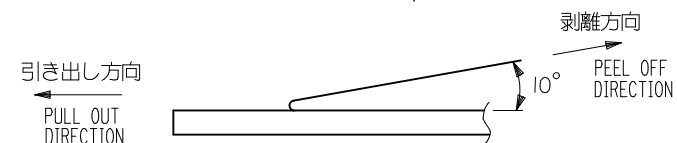
4. 嵌合相手: 55526シリーズ, 501017シリーズ。
MATE WITH: 55526 SERIES AND 501017 SERIES.
5. テール平坦度は 0.08MAX。
TAIL COPLANARITY TO BE 0.08MAX.

24.6	23.6	26.7	54684-1203	120
20.6	19.6	22.7	54684-1003	100
18.6	17.6	20.7	54684-0903	90
16.6	15.6	18.7	54684-0803	80
14.6	13.6	16.7	54684-0703	70
12.6	11.6	14.7	54684-0603	60
10.6	9.6	12.7	54684-0503	50
5.4	4.4	7.5	54684-0243	24
C	B	A	MATERIAL NO.	CIRCUIT
			MODEL NO.	54684-***3

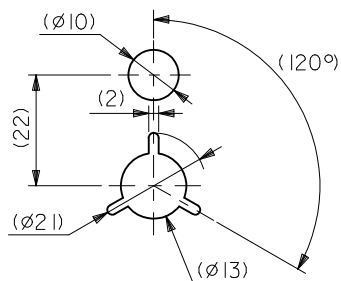
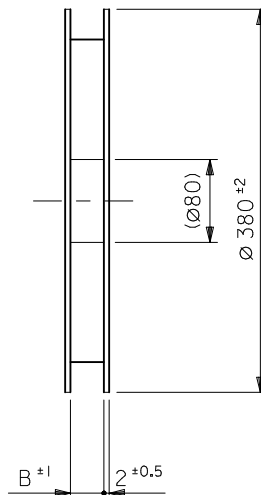
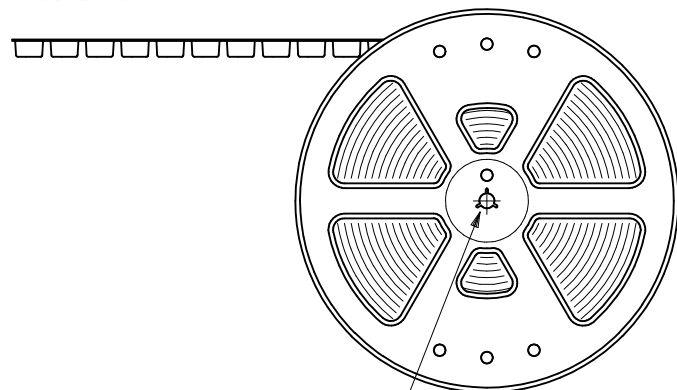
REVISED EC NO: J2010-2361 DRWN:MKATO CHKD:THIRATA APPR:MSASAO 2010/05/21 2010/05/24 2010/06/09	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	T. KAIHO	2003/07/15	TITLE 0.4BB CONN.REC HSGASSY NO BOSS NI BARRIER -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	CHECKED BY T. ITO	2003/07/15					
		30 OVER	± 0.3	APPROVED BY T. YAMAGU	2003/07/15	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-54684-011		1 OF 1			
	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

-
- 20PCS. MIN. トップテープ接着部 (空エンボス)
 TOP TAPE BONDED PART. (EMPTY)
- 引き出し方向
 PULL OUT DIRECTION
- 400 MIN.
- 部品挿入部
 COMPONENT SUPPLIER
- 末端部 (空部)
 TAIL PART (EMPTY)
 40 MIN.

- 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 ~ 0.7N(10.2gf ~ 71.4gf)
(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) <リサイクル材を含む>
 POLYSTYREN(PS) <RECYCLE MATERIAL CONTAINED>



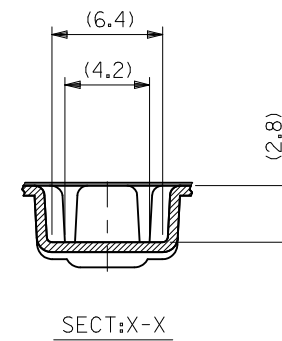
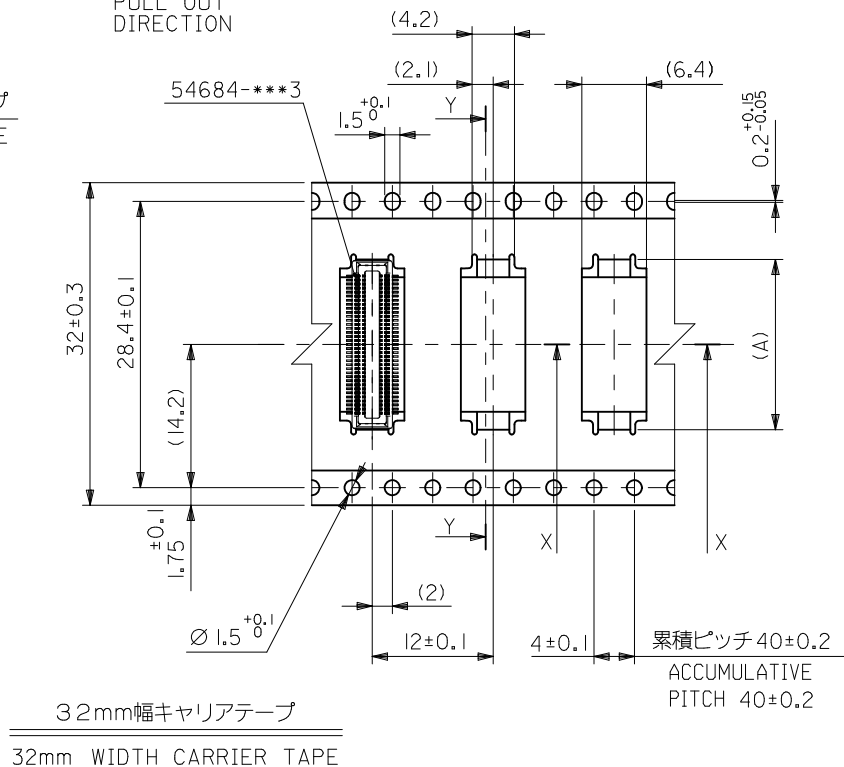
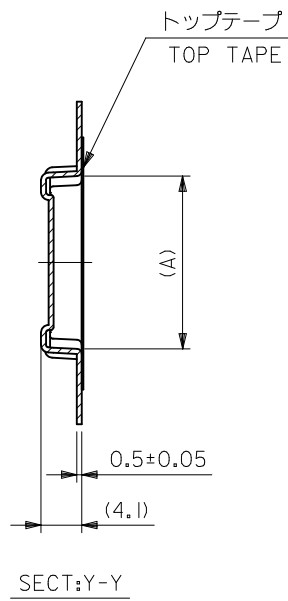
DETAIL "F"

REVISED	EC NO: J2010-2361	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	MODEL NO. 54684-***4		THIRD ANGLE PROJECTION
	DRWN:MKATO		10 UNDER	± 0.2	T. KAIHO	2003/07/15	TITLE 0.4BB CON.EMBSTP PKG FOR 54684-***3 -LEAD FREE-				
	CHKD:THIRATA		10 OVER 30 UNDER	± 0.25	CHECKED BY	DATE					
	APPR:MSASAO		30 OVER	± 0.3	APPROVED BY	DATE					
	ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.	SHEET NO.					
	REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-54684-012		1 OF 4		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											

REVISED	EC NO: J2010-2361	2010/05/21	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	SHEET NO. 1 OF 1 THIRD ANGLE PROJECTION		
	DRWN:KATO	2010/05/24		10 UNDER	± 0.2	DRAWN BY T. KAIHO	DATE 2003/07/15	TITLE 0.4BB CON.EMBSTP PKG FOR 54684-***3 -LEAD FREE-				
	CHKD:HIRATA	2010/06/09		10 OVER 30 UNDER	± 0.25	CHECKED BY T. ITO	DATE 2003/07/15					
	APPR:MSASAO			30 OVER	± 0.3	APPROVED BY T. YAMAGU	DATE 2003/07/15	MOLEX INCORPORATED				
				ANGULAR	±3 °	MATERIAL NO.						
	REV				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHART		SD-54684-012		2 OF 4		
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

10 9 8 7 6 5 4 3 2 1

引き出し方向
PULL OUT
DIRECTION

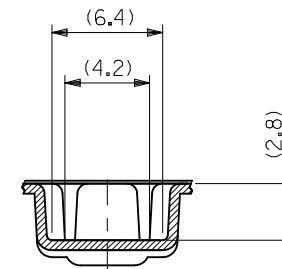
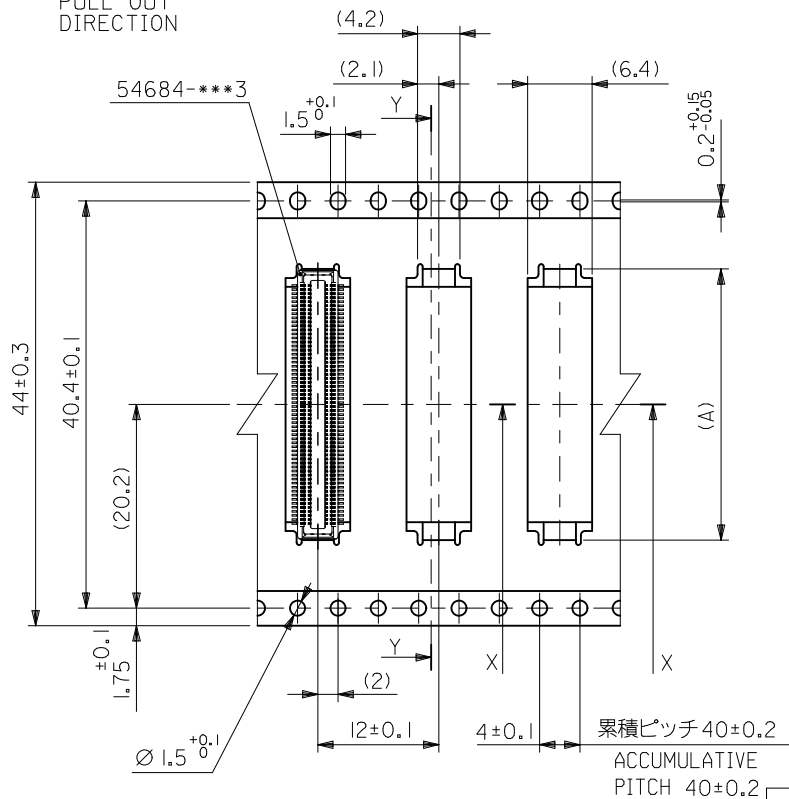
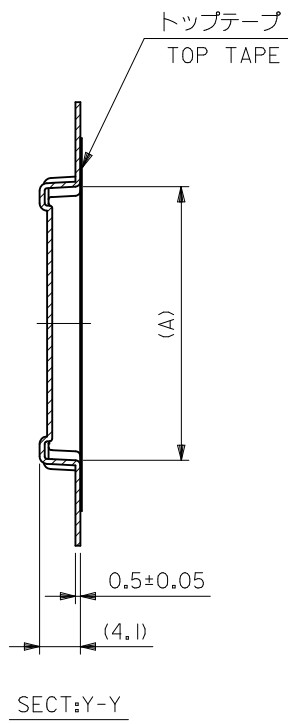


32	33.5	20.9	54684-0904	90
		18.9	54684-0804	80
		16.9	54684-0704	70
		14.9	54684-0604	60
		12.9	54684-0504	50
キャリアテープ幅 CARRIER TAPE WIDTH	B	(A)	MATERIAL NO.	極数 CKT.

REVISED EC NO: J2010-2361 DRWN:MKATO CHKD:THIRATA APPR:MSASAO 2010/05/21 2010/05/24 2010/06/09	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
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		10 OVER 30 UNDER	± 0.25	T. ITO	2003/07/15				
		30 OVER	± 0.3	T. YAMAGU	2003/07/15	DOCUMENT NO. SD-54684-012			
		ANGULAR ±3 °		MATERIAL NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SHEET NO. 3 OF 4			
	SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

10 9 8 7 6 5 4 3 2 1

引き出し方向
PULL OUT
DIRECTION



SECT:X-X

44mm幅キャリアテープ
44mm WIDTH CARRIER TAPE

44	45.5	26.9	54684-1204	120
		22.9	54684-1004	100
キャリアテープ幅 CARRIER TAPE WIDTH	B	(A)	MATERIAL NO.	極数 CKT.

MODEL NO. 54684-***4

REVISED EC NO: J2010-2361 DRWN:MKATO CHKD:THIRATA APPR:MSASAO REV	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
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		30 OVER	± 0.3	APPROVED BY T. YAMAGU	2003/07/15	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-54684-012			4 OF 4	
			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					