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Part Number:

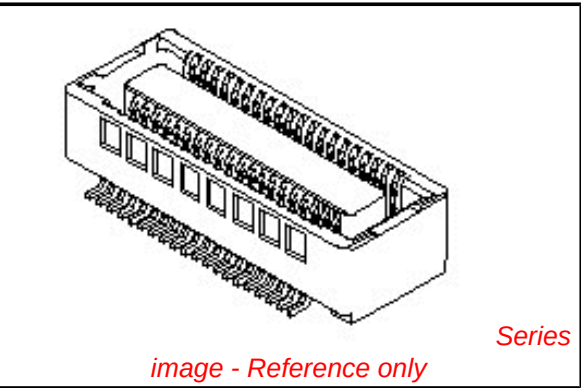
0546840804

Status:

Active

Description:

0.40mm (.016") Pitch Board-to-Board SlimStack™ Receptacle, Surface Mount, Dual Row, Vertical Stacking, 3.50mm (.138") Stacking Height, 80 Circuits



Documents:	
3D Model	Product Specification PS-54684-008 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)
Product Specification PS-54684-006 (PDF)	

General	
Product Family	PCB Receptacles
Series	54684
Application	Board-to-Board
Product Name	SlimStack™
Physical	
Circuits (Loaded)	80
Color - Resin	Brown
Durability (mating cycles max)	30
Glow-Wire Compliant	No
Mated Height (in)	0.138 In
Mated Height (mm)	3.50 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PCB Locator	No
PCB Retention	None
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.016 In
Pitch - Mating Interface (mm)	0.40 mm
Plating min: Mating (µin)	4
Plating min: Mating (µm)	0.1
Plating min: Termination (µin)	2
Plating min: Termination (µm)	0.05
Polarized to PCB	No
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-25°C to +105°C
Termination Interface: Style	Surface Mount
Electrical	
Current - Maximum per Contact	0.3A
Voltage - Maximum	30V
Material Info	
Reference - Drawing Numbers	
Packaging Specification	SPK-54684-001
Product Specification	PS-54684-006, PS-54684-008, RPS-54684-013, RPS-54684-015
Sales Drawing	SD-54684-011, SD-54684-012

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

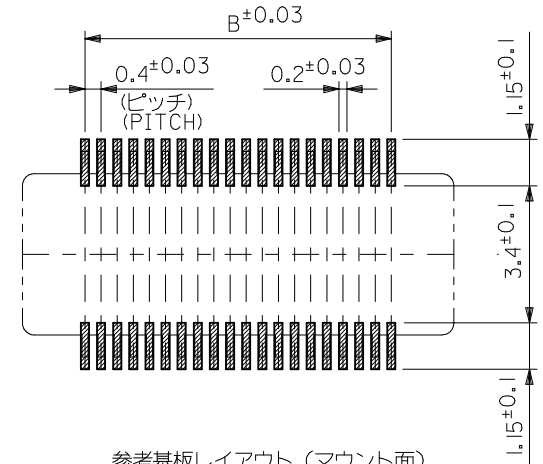
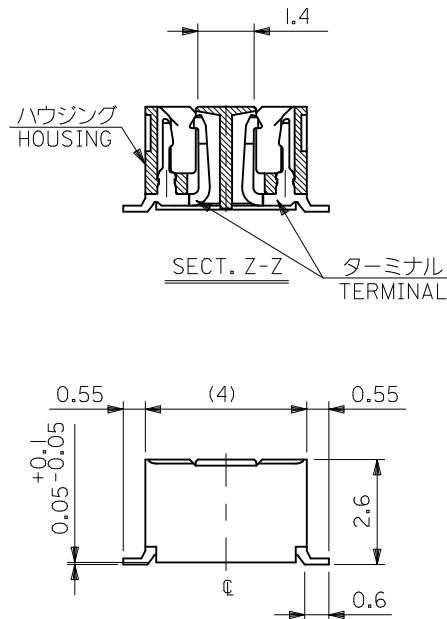
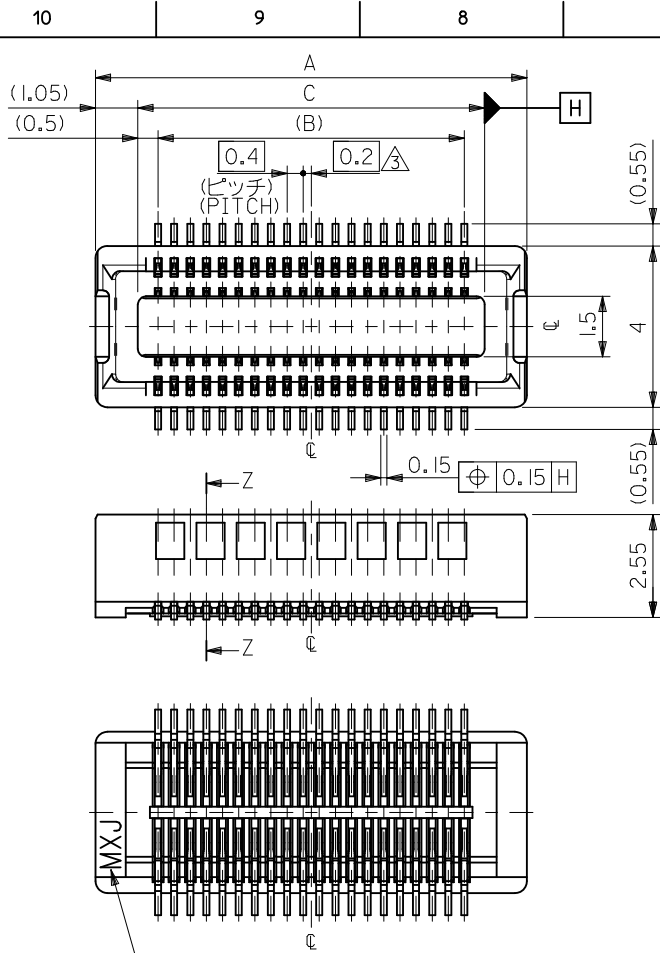
54684Series

Mates With

55526 PCB Header

This document was generated on 04/30/2010

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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		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
					MM ONLY		---	METRIC		
			10 UNDER	±0.2	DRAWN BY T. KAIHO	DATE 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	DATE 2003/07/15				
			30 OVER	±0.3	APPROVED BY T. YAMAGU	DATE 2003/07/15	MOLEX INCORPORATED			
			ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-54684-011		1 OF 1	
D	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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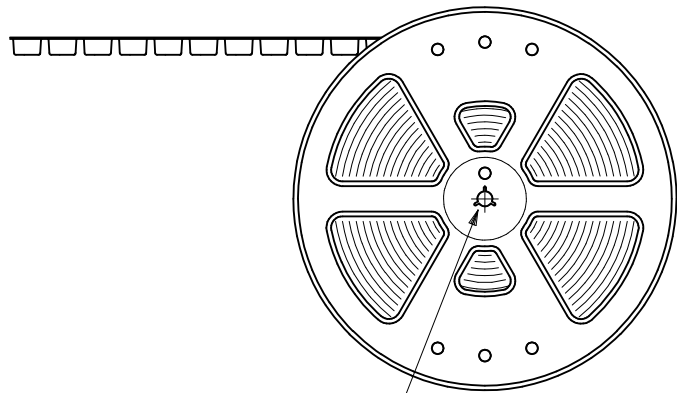
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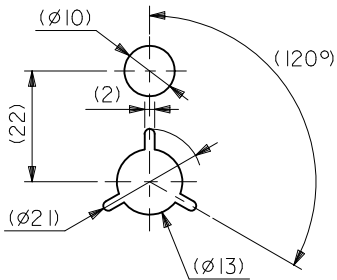
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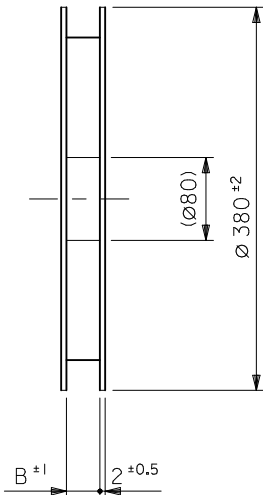
引き出し方向

PULL OUT
DIRECTION

"F"

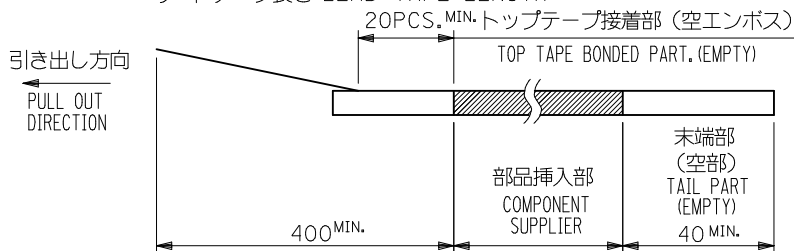


DETAIL "F"



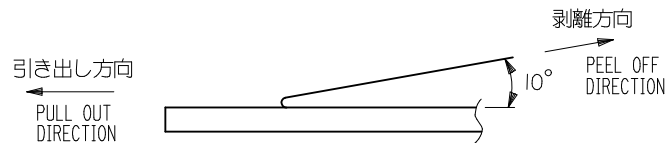
NOTES

- 製品詳細寸法については図面 SD-54684-011 を参照下さい。
RE DETAILED DIMENSION, SEE SD-54684-011
- 梱包数量：1500個/リール
NUMBER OF CONNECTORS : 1500PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- トップテープの剥離強度：0.1N ～ 0.7N(10.2gf ～ 71.4gf)
(剥離方向は下図参照)

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.



- 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(P.S) <リサイクル材を含む>
POLYSTYREN(PS) <RECYCLE MATERIAL CONTAINED>

REVISED EC NO: J2010-2361 2010/05/21 DRAWN:KATO 2010/05/24 CHKD:THIRATA 2010/06/09 APPR:MSASAO	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	MODEL NO. 54684-***4	THIRD ANGLE PROJECTION
		10 UNDER	± 0.2	DRAWN BY T.KAIHO	DATE 2003/07/15	TITLE 0.4BB CON.EMBSTP PKG FOR 54684-***3 -LEAD FREE-			
		10 OVER 30 UNDER	± 0.25	CHECKED BY T. ITO	DATE 2003/07/15				
		30 OVER	± 0.3	APPROVED BY T. YAMAGU	DATE 2003/07/15	MOLEX INCORPORATED			
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-54684-012		1 OF 4	
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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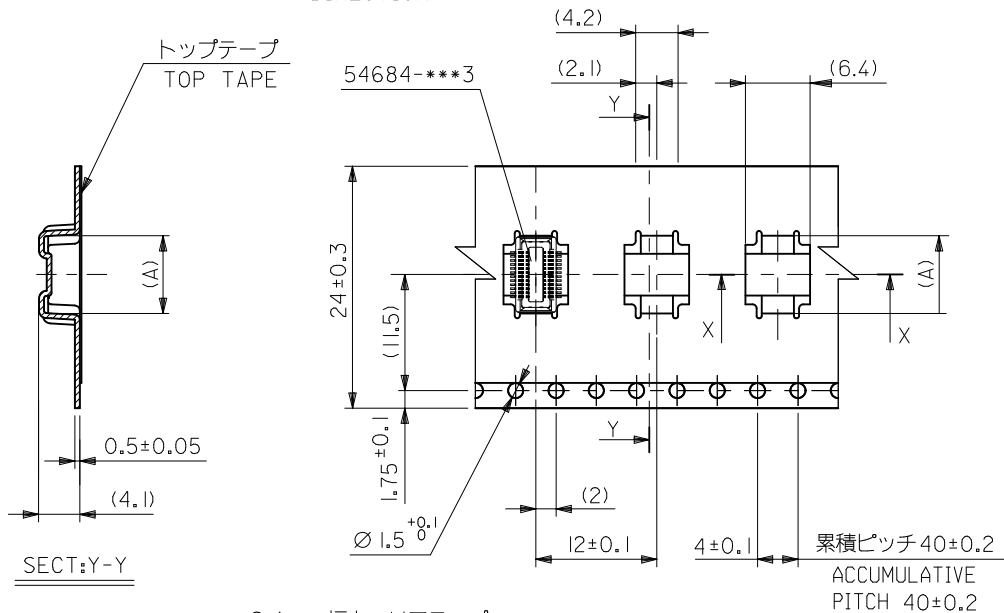
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引き出し方向
PULL OUT
DIRECTION

トップテープ
TOP TAPE

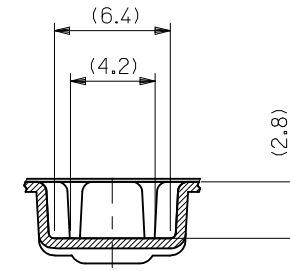
54684-***3



SECT:Y-Y

24mm幅キャリアテープ

24mm WIDTH CARRIER TAPE



SECT:X-X

24	25.5	7.7	54684-0244	24
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	DESCRIPTION 2010/05/21 2010/05/24 2010/06/09	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	T.KAIHO	DATE 2003/07/15	TITLE 0.4BB CON.EMBSTP PKG FOR 54684-***3 -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	CHECKED BY T. ITO	DATE 2003/07/15					
		30 OVER	± 0.3	APPROVED BY T. YAMAGU	DATE 2003/07/15					
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-54684-012		2 OF 4		
	REV		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

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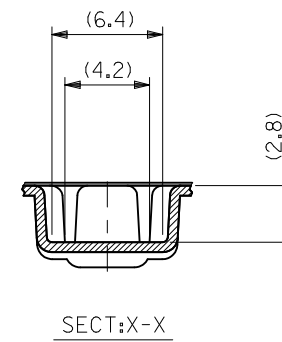
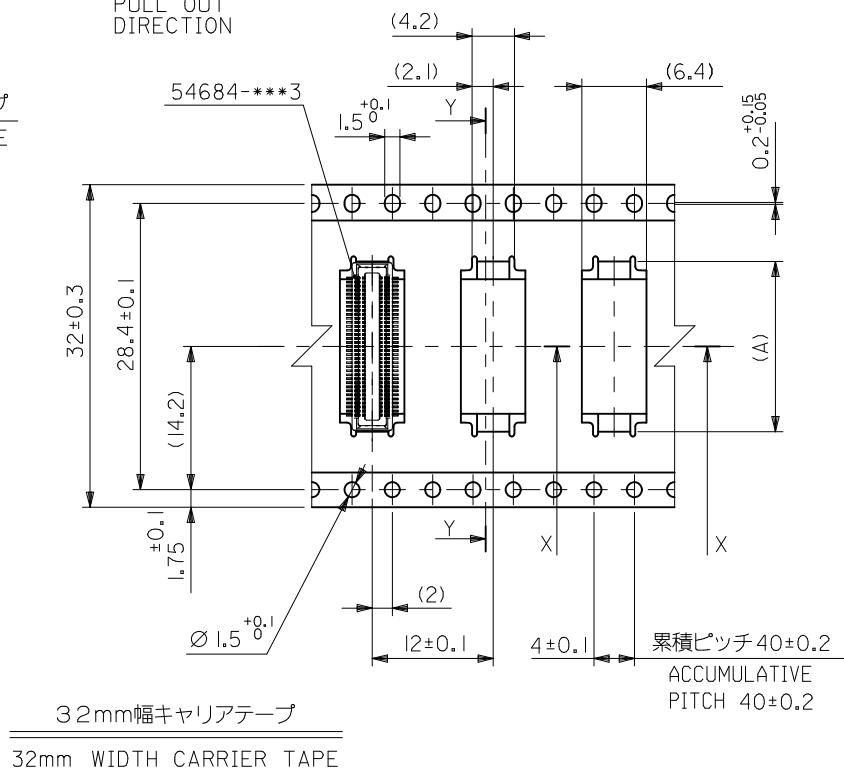
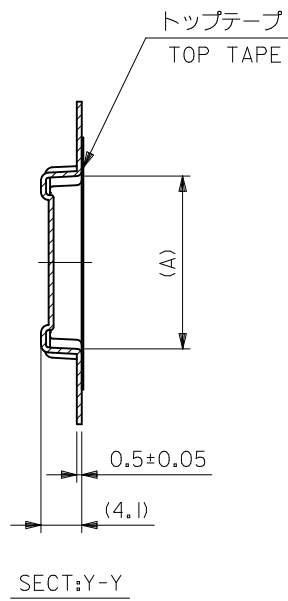
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10 9 8 7 6 5 4 3 2 1

引き出し方向
PULL OUT
DIRECTION

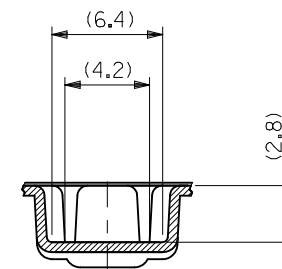
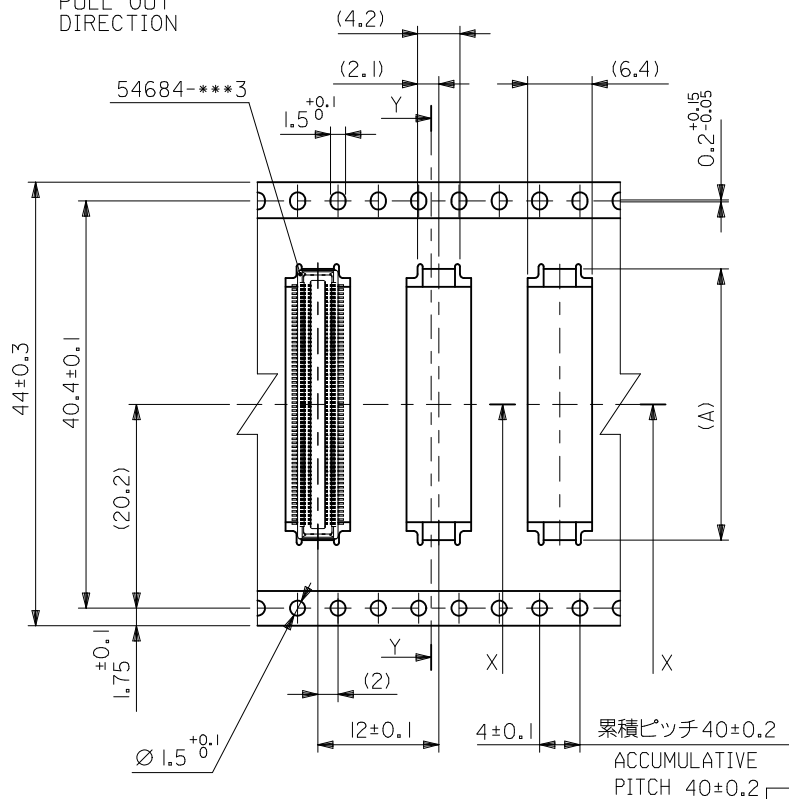
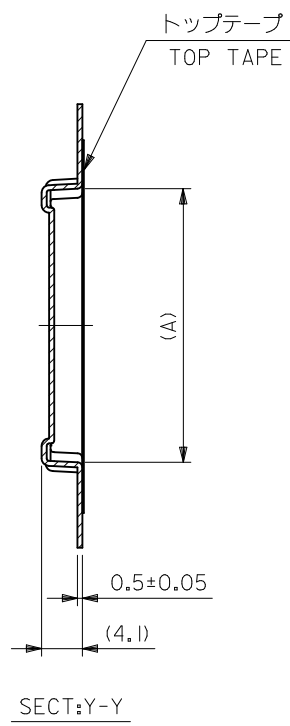


32	33.5	20.9	54684-0904	90
		18.9	54684-0804	80
		16.9	54684-0704	70
		14.9	54684-0604	60
		12.9	54684-0504	50
キャリアテープ幅 CARRIER TAPE WIDTH	B	(A)	MATERIAL NO.	極数 CKT.

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		10 OVER 30 UNDER	± 0.25	T.IITO	DATE 2003/07/15					
		30 OVER	± 0.3	T.YAMAGU	DATE 2003/07/15	DOCUMENT NO. SHEET NO. SD-54684-012 3 OF 4				
		ANGULAR ±3 °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		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	MODEL NO. 54684-***4	THIRD ANGLE PROJECTION
		10 UNDER	± 0.2	T.KAIHO	2003/07/15	TITLE 0.4BB CON.EMBSTP PKG FOR 54684-***3 -LEAD FREE-	MOLEX MOLEX INCORPORATED	DOCUMENT NO. SD-54684-012	SHEET NO. 4 OF 4
		10 OVER 30 UNDER	± 0.25	T. ITO	2003/07/15				
		30 OVER	± 0.3	T. YAMAGU	2003/07/15				
		ANGULAR ±3 °		MATERIAL NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART					
				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				