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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

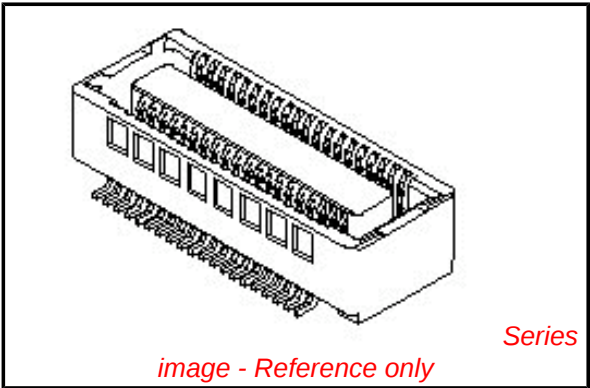
Product Family PCB Receptacles
Series [54684](#)
Application Board-to-Board
Product Name SlimStack™

Physical

Circuits (Loaded) 24
Circuits (maximum) 24
Color - Resin Brown
Durability (mating cycles max) 30
Glow-Wire Compliant No
Mated Height (in) 0.157 In
Mated Height (mm) 4.00 mm
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Gold
Material - Resin High Temperature Thermoplastic
Number of Rows 2
Orientation Vertical
PC Tail Length (in) 0.000 In
PC Tail Length (mm) 0.00 mm
PCB Locator No
PCB Retention None
PCB Thickness Recommended (in) 0.000 In
PCB Thickness Recommended (mm) 0.00 mm
Packaging Type Embossed Tape on Reel
Pitch - Mating Interface (in) 0.016 In
Pitch - Mating Interface (mm) 0.40 mm
Pitch - Term. Interface (in) 0.016 In
Pitch - Term. 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 Mating Part No
Polarized to PCB No
Stackable No
Surface Mount Compatible (SMC) Yes
Temperature Range - Operating -25°C to +105°C
Termination Interface: Style Surface Mount

Electrical

Current - Maximum per Contact 0.3A
Voltage - Maximum 30V AC (RMS)/DC



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Not Reviewed



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

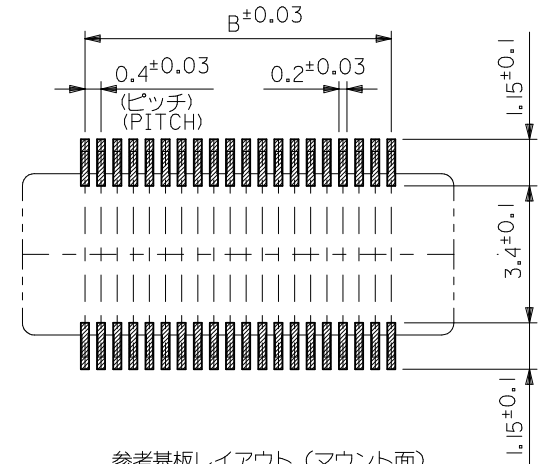
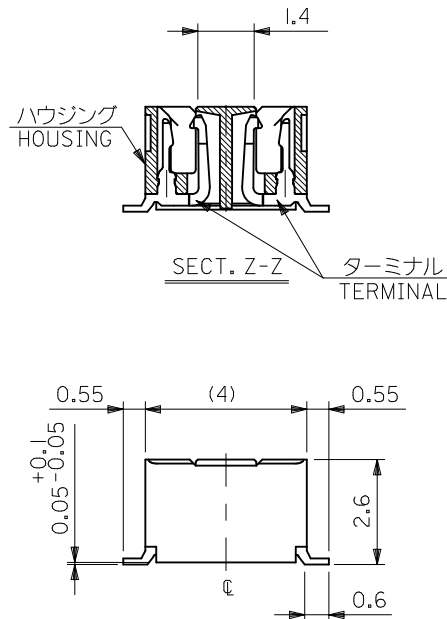
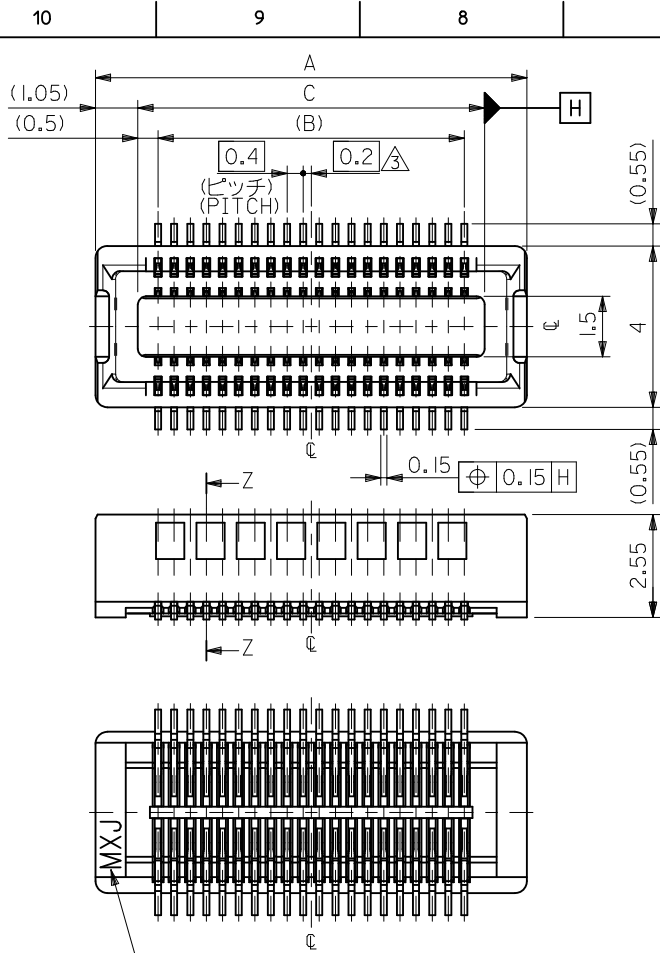
Reference - Drawing Numbers

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.

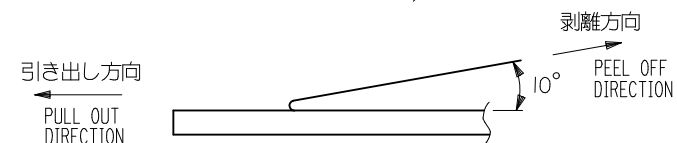
24.6	23.6	26.7	54684-1203	120
20.6	19.6	22.7	54684-1003	100
18.6	17.6	20.7	54684-0903	90
16.6	15.6	18.7	54684-0803	80
14.6	13.6	16.7	54684-0703	70
12.6	11.6	14.7	54684-0603	60
10.6	9.6	12.7	54684-0503	50
5.4	4.4	7.5	54684-0243	24
C	B	A	MATERIAL NO.	CIRCUIT

MODEL NO. 54684-***3

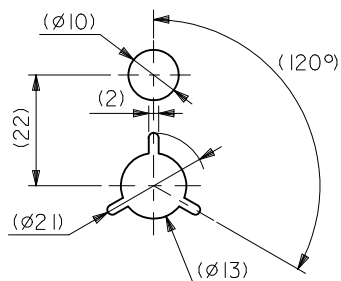
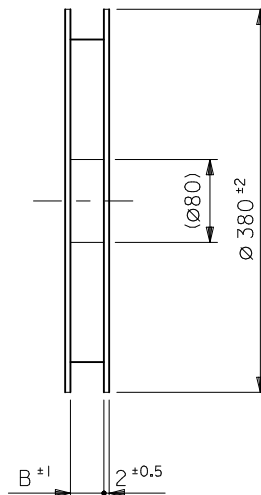
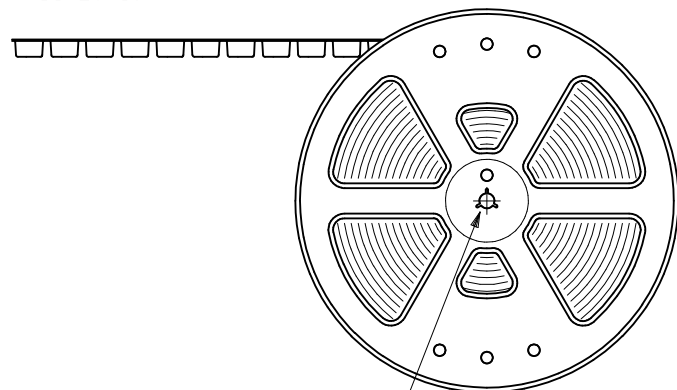
REVISED EC NO: J2010-2361 DRWN:MKATO CHKD:THIRATA APPR:MSASAO	2010/05/21 2010/05/24 2010/06/09	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
					MM ONLY		---	METRIC				
			10 UNDER	±0.2	DRAWN BY T. KAIHO	DATE 2003/07/15	TITLE 0.4BB 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 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			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		SCALE	DESIGN UNITS	MODEL NO.	54684-***4	THIRD ANGLE PROJECTION
	MM ONLY				---	METRIC	⊙				
	10 UNDER		± 0.2	T. KAIHO	DATE 2003/07/15	0.4BB CON.EMBSTP PKG FOR 54684-***3 -LEAD FREE-					
	10 OVER 30 UNDER		± 0.25	CHECKED BY	DATE						
	30 OVER		± 0.3	T. ITO	2003/07/15						
	APPR:MSASAO	ANGULAR ±3 °	APPROVED BY	DATE	MOLEX MOLEX INCORPORATED						
REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	T. YAMAGU	2003/07/15	DOCUMENT NO.			SHEET NO.				
			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								

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E

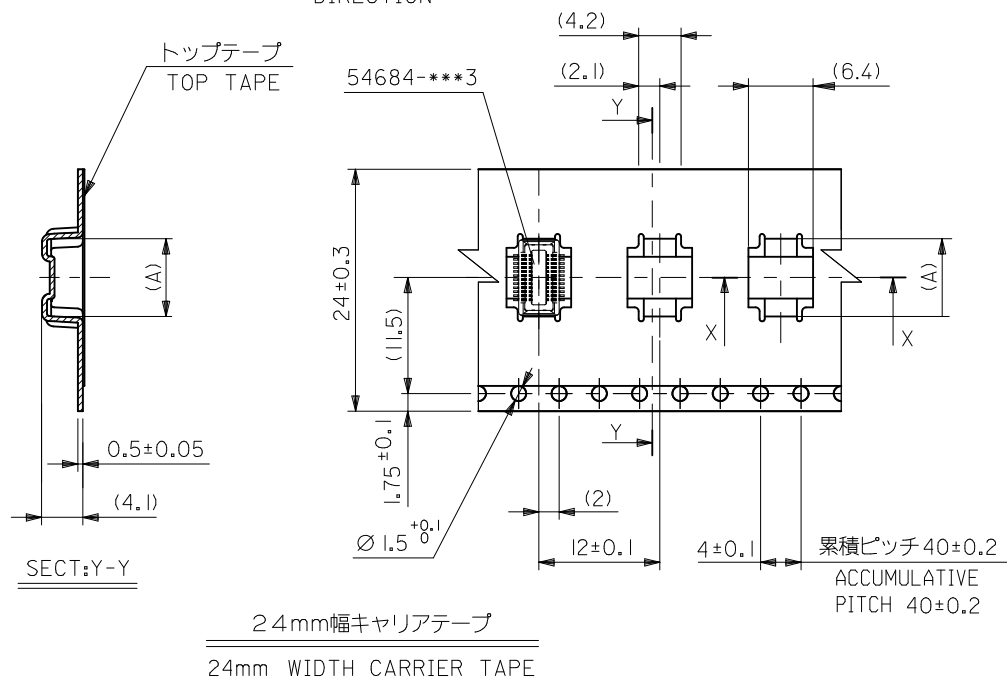
D

C

B

A

引き出し方向
PULL OUT
DIRECTION



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 REV	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	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			2 OF 4
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

9

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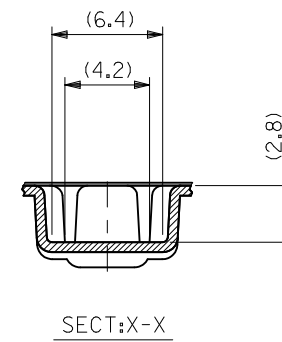
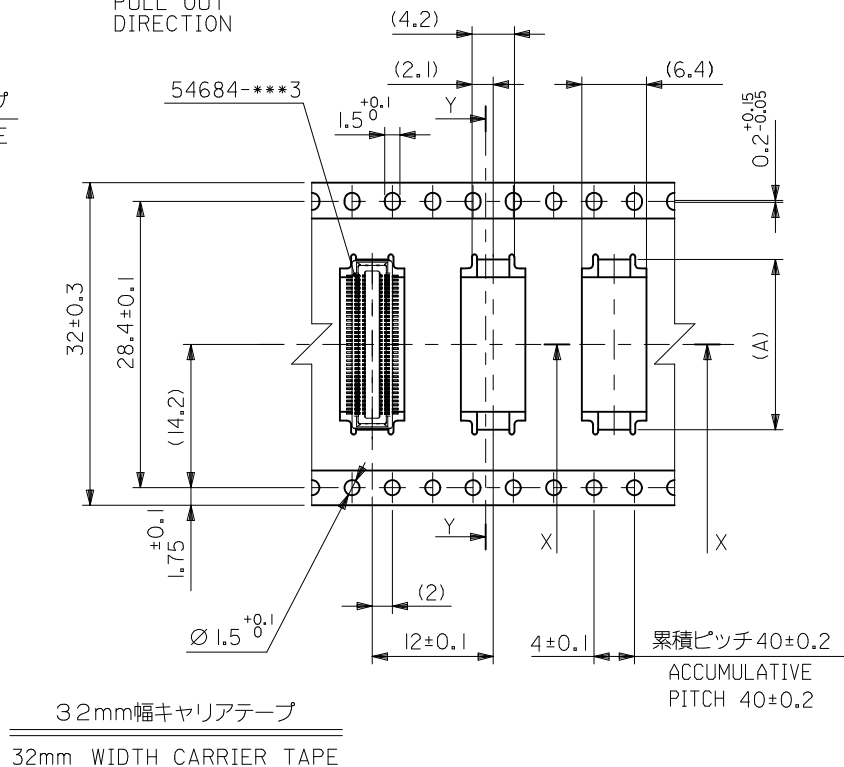
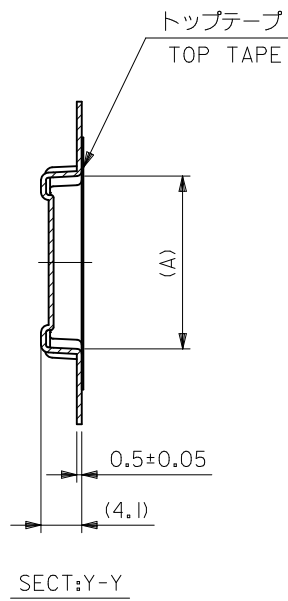
4

3

2

10 9 8 7 6 5 4 3 2 1

引き出し方向
PULL OUT
DIRECTION

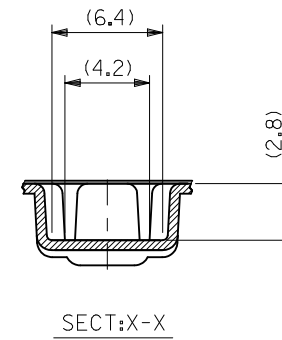
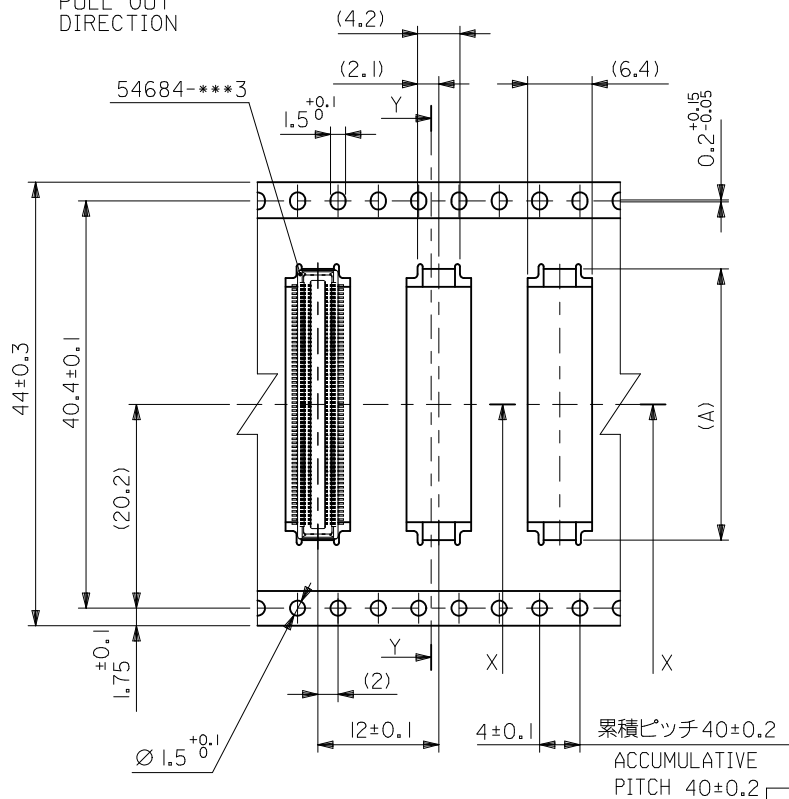
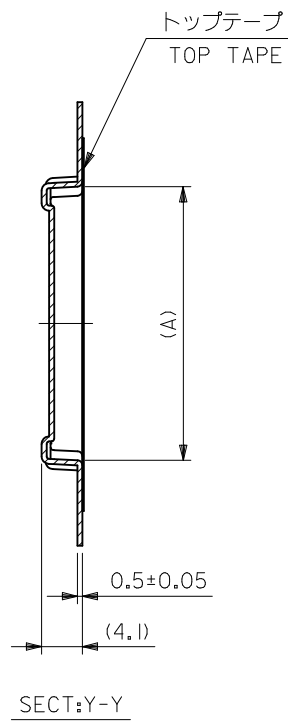


32	33.5	20.9	54684-0904	90
		18.9	54684-0804	80
		16.9	54684-0704	70
		14.9	54684-0604	60
		12.9	54684-0504	50
キャリアテープ幅 CARRIER TAPE WIDTH	B	(A)	MATERIAL NO.	極数 CKT.

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	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		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



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.

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		ANGULAR ±3 °		MATERIAL NO.				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-54684-012		
	REV		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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