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Part Number:

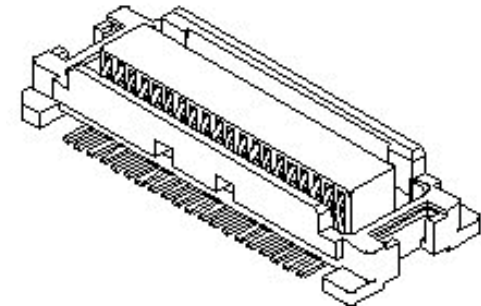
0529910208

Status:

Active

Description:

0.50mm (.020") Pitch SlimStack™ Receptacle, Surface Mount, Dual Row, Vertical, 3.00 and 4.00mm (.118 and .157") Stacking Heights, Lower Circuit Size Version, White, 20 Circuits



Series

image - Reference only

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-52991-003 \(PDF\)](#)
- [Product Specification PS-54167-002 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Receptacles
Series	52991
Application	Board-to-Board
Product Name	SlimStack™

Physical

Circuits (Loaded)	20
Glow-Wire Compliant	No
Mated Height (in)	0.118 In, 0.157 In
Mated Height (mm)	3.00 mm, 4.00 mm
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Number of Rows	2
Orientation	Vertical
PCB Locator	No
PCB Retention	None
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.020 In
Pitch - Mating Interface (mm)	0.50 mm
Plating min: Mating (µin)	4
Plating min: Mating (µm)	0.1
Plating min: Termination (µin)	10
Plating min: Termination (µm)	0.25
Polarized to PCB	No
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	50V

Material Info

Reference - Drawing Numbers

Product Specification	PS-52991-003, PS-54167-002, RPS-52991-009, RPS-52991-012, RPS-52991-013, RPS-52991-014, RPS-52991-016, RPS-52991-017, RPS-52991-019
Sales Drawing	SD-52991-004, SD-52991-005

EU RoHS

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

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.

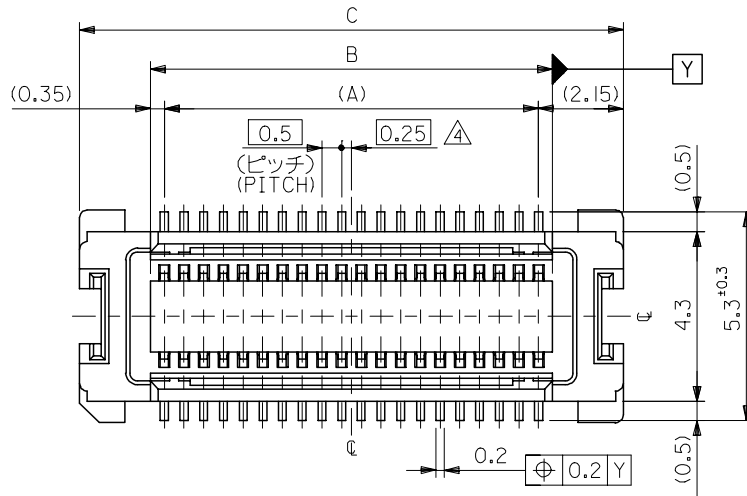
Search Parts in this Series

52991Series

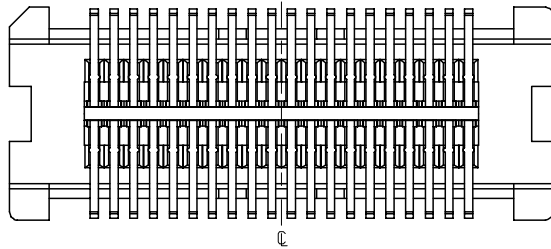
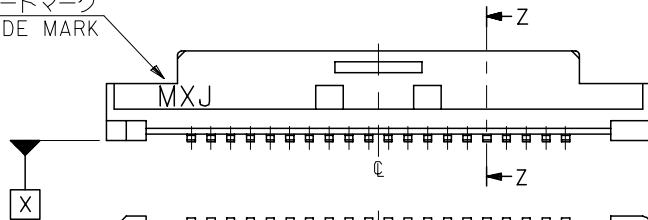
Mates With

53916 , 53748

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トレードマーク
TRADE MARK

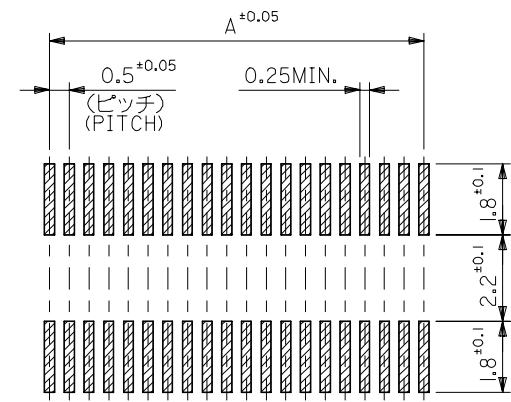
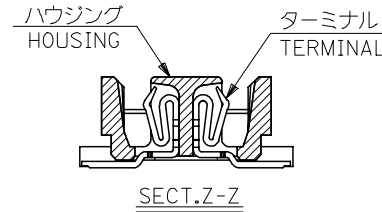
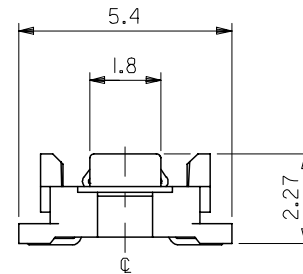


注記 NOTES:

1. 使用材料 MATERIAL
ハウジング: LCPガラス入り (白), UL94V-0
HOUSING: LCP(G.F.)(COLOR: WHITE), UL94V-0
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
全体仕上げ: 金メッキ 0.1 MICROMETER MIN.
ALL OVER: GOLD 0.1 MICROMETER MIN.
下地メッキ: ニッケルメッキ 1.5 MICROMETER MIN.
UNDER PLATING: NICKEL 1.5 MICROMETER MIN.

3. 基準面 [X] からのソルダーテールの半田付け面のズレ量は、上方向 0、下方向 0.15MAX. とする。
MISALIGNMENT OF SOLDER TAIL FROM [X]
: UPPER DIRECTION 0, LOWER DIRECTION 0.15 MAX.
△ (全極数/2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT/2)=EVEN.

- 5 嵌合相手: 53748 シリーズ 53916 シリーズ 502280 シリーズ
MATE WITH: 53748 SERIES, 53916 SERIES, 502280 SERIES.
- 6 テール平坦度は、0.1MAX.
TAIL COPLANARITY TO BE 0.1MAX.

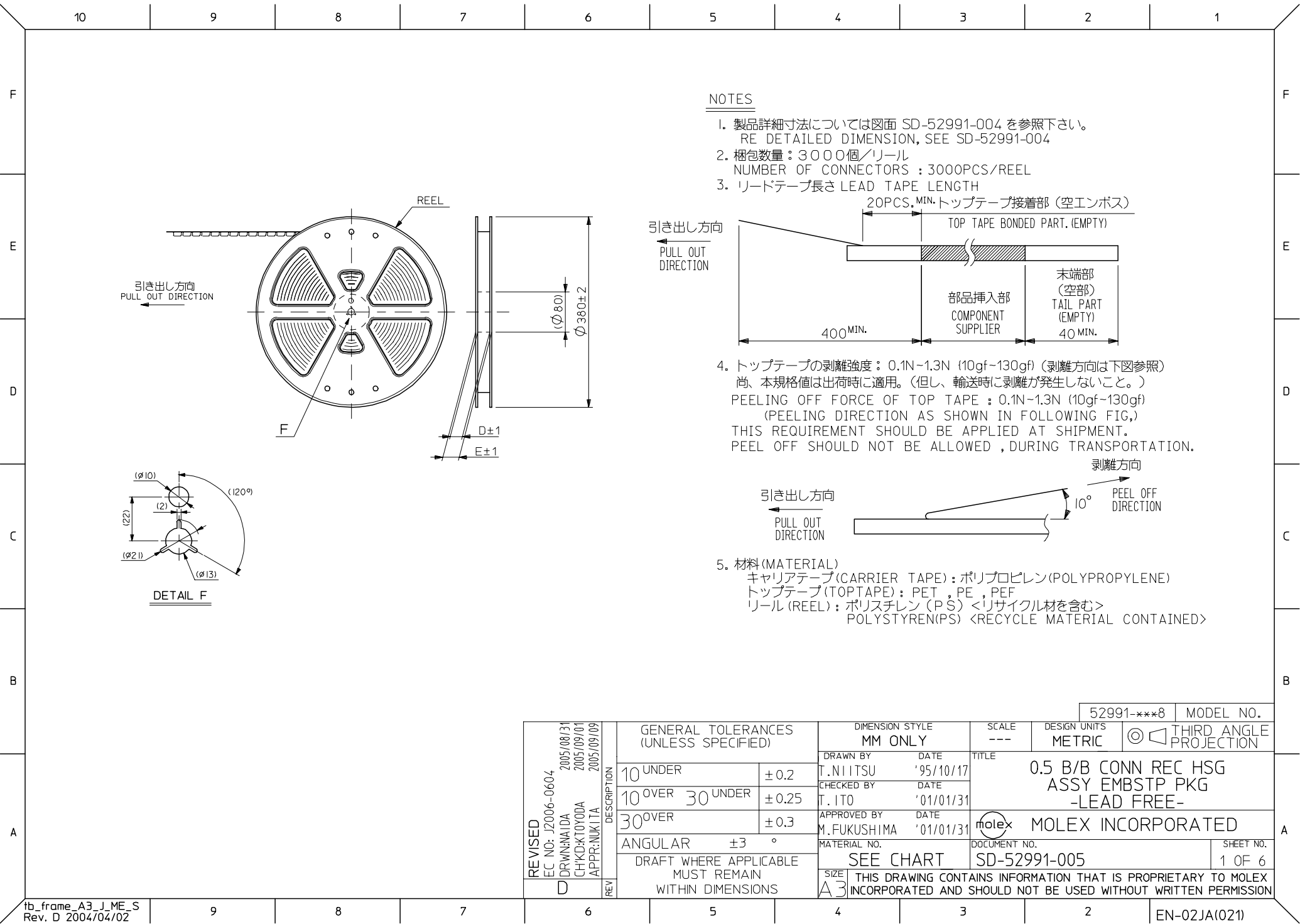


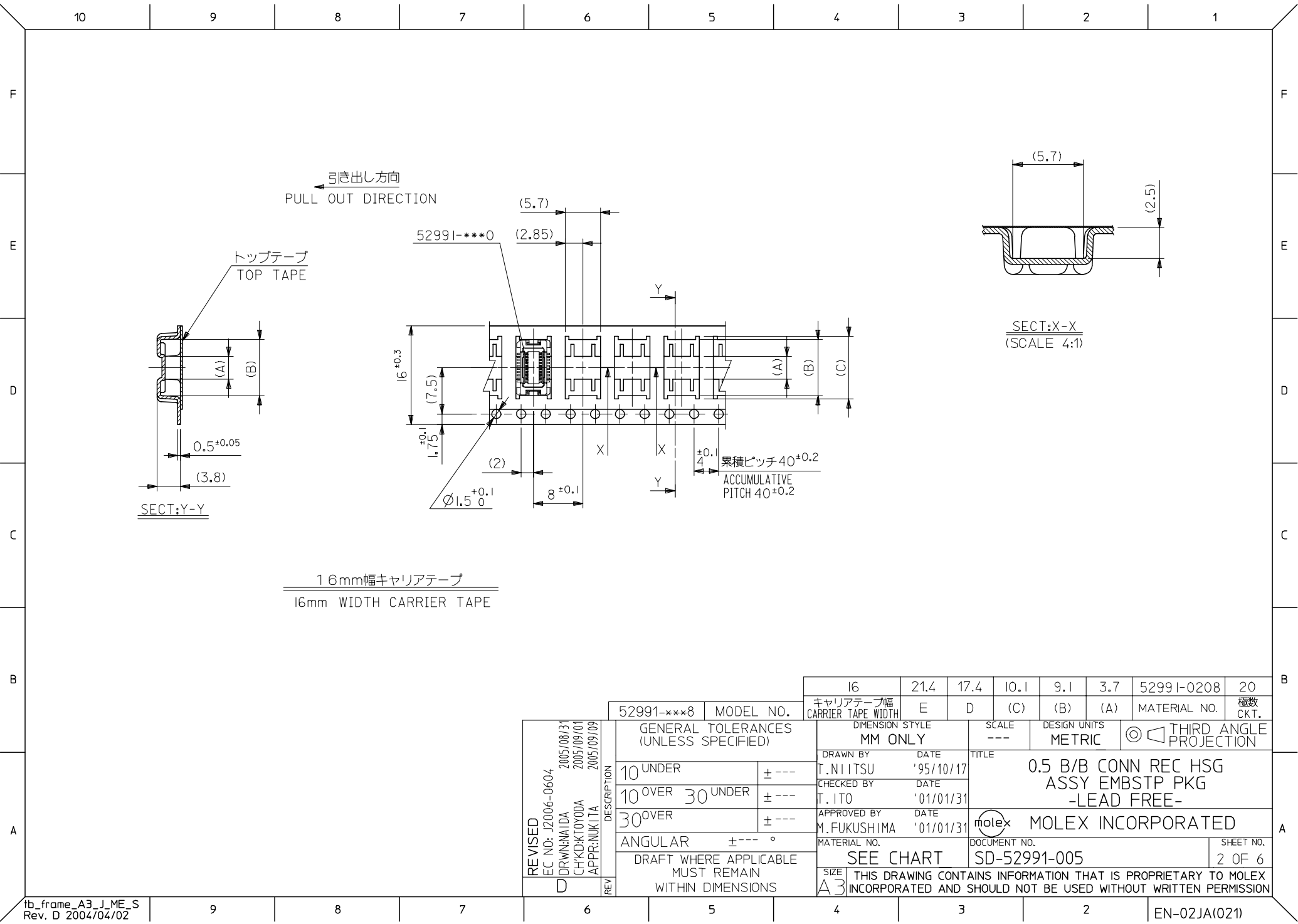
参考基板レイアウト (マウント面)

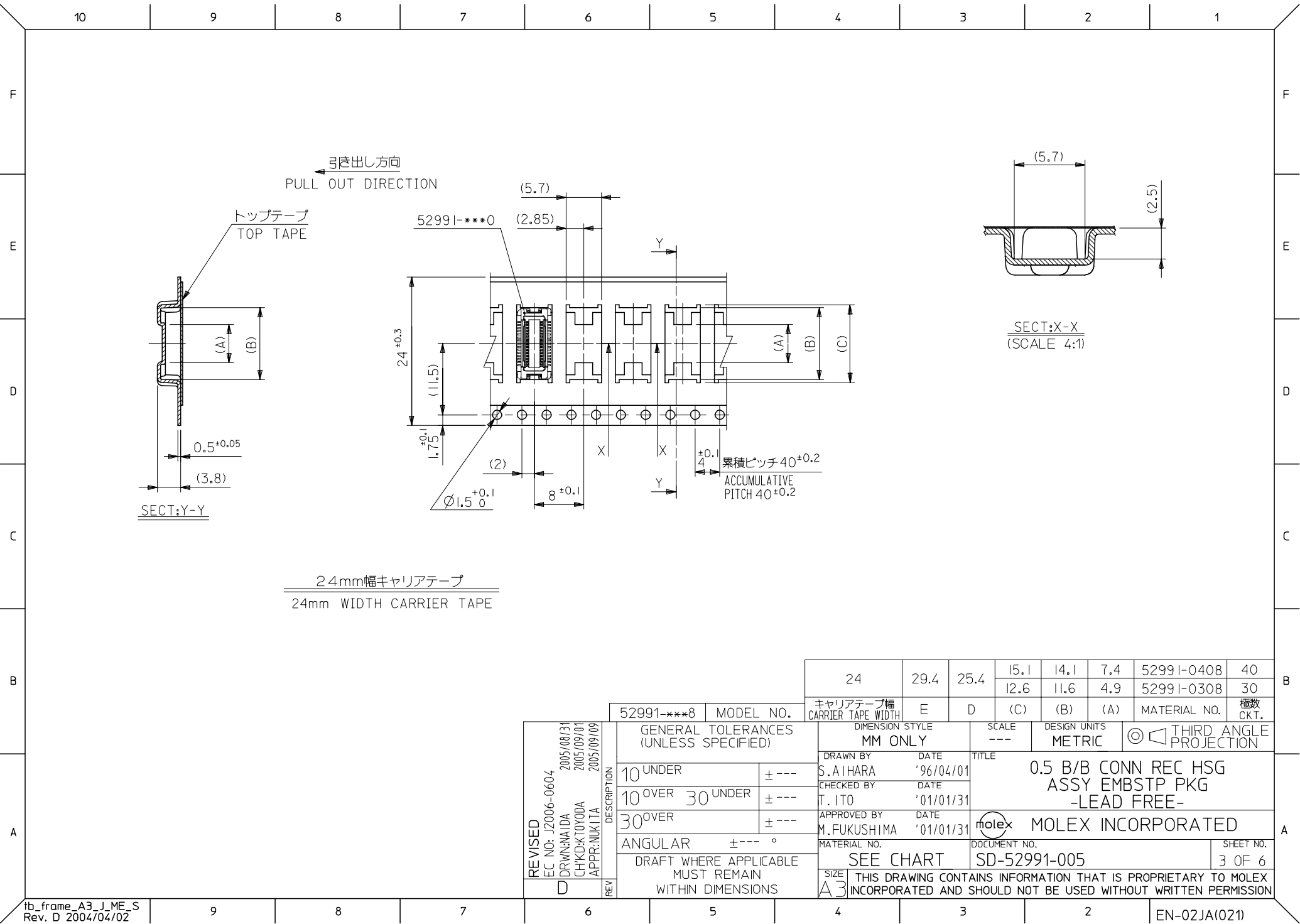
P.C. BOARD PATTERN
DIMENSION (REF.)
(MOUNTING AREA)

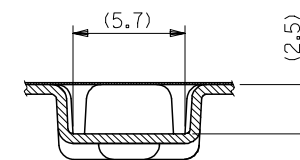
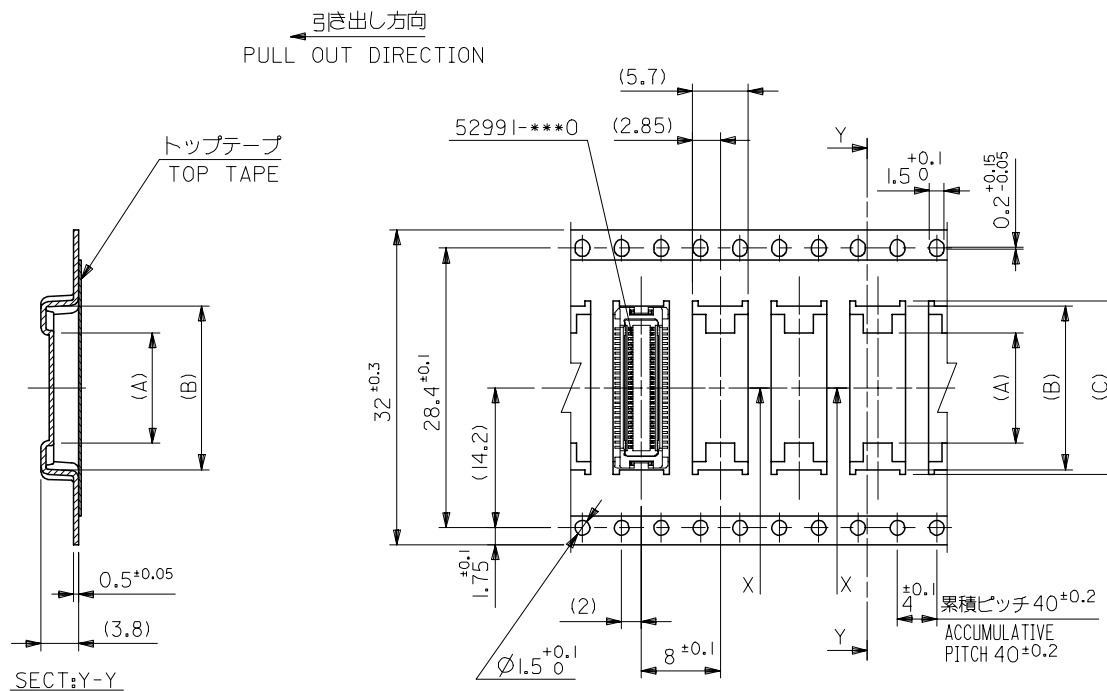
23.8	20.2	19.5	52991-0800	80
21.3	17.7	17.0	-0700	70
18.8	15.2	14.5	-0600	60
16.3	12.7	12.0	-0500	50
13.8	10.2	9.5	-0400	40
11.3	7.7	7.0	-0300	30
8.8	5.2	4.5	52991-0200	20
C	B	A	MATERIAL NO.	極数 CIRCUIT

REVISED	EC NO: J2007-0273	DRWN: TENAGASE	2006/07/28	CHKD: THARUYAMA	2006/08/03	APPR: NUKITA	2006/08/07	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS		THIRD ANGLE PROJECTION		
											MM ONLY		8:1	METRIC				
									10 UNDER		±0.2	DRAWN BY		DATE	TITLE 0.5 B/B CONN REC HOUSING ASSY(W/O BOSS, W/O NAIL) -LEAD FREE-			
									10 OVER 30 UNDER		±0.25	CHECKED BY		DATE				
									30 OVER		±0.3	APPROVED BY		DATE	 MOLEX INCORPORATED			
									ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-52991-004		1 OF 1												
0	REV								THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									





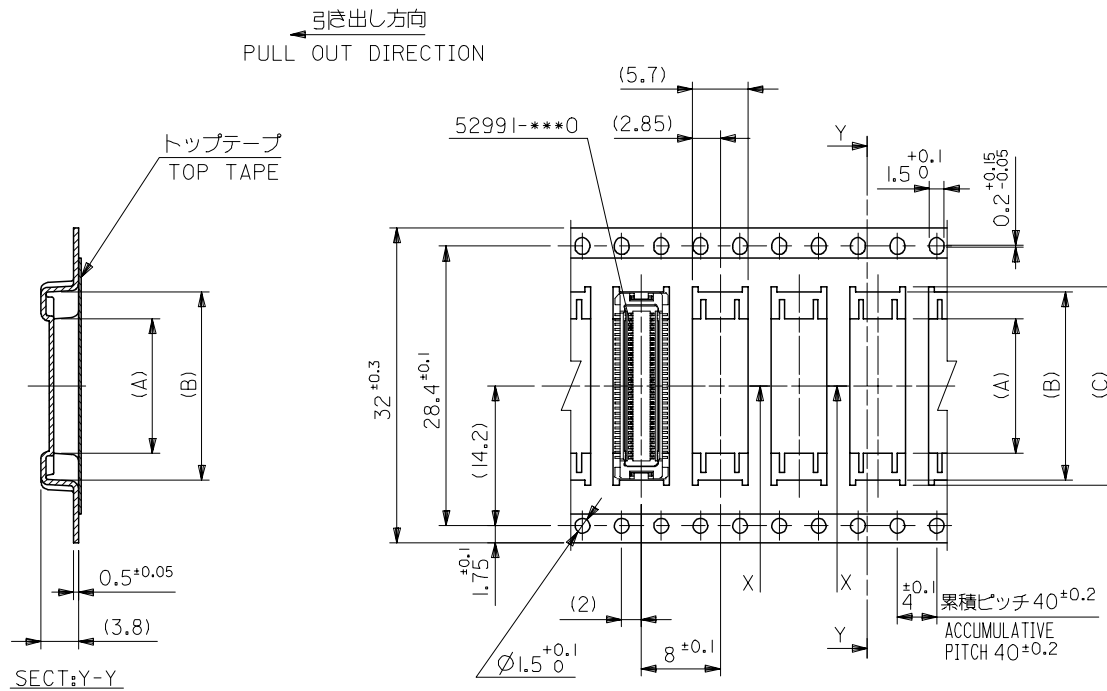




SECT:X-X
(SCALE 4:1)

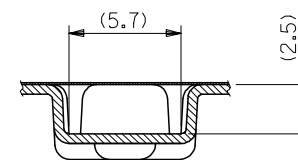
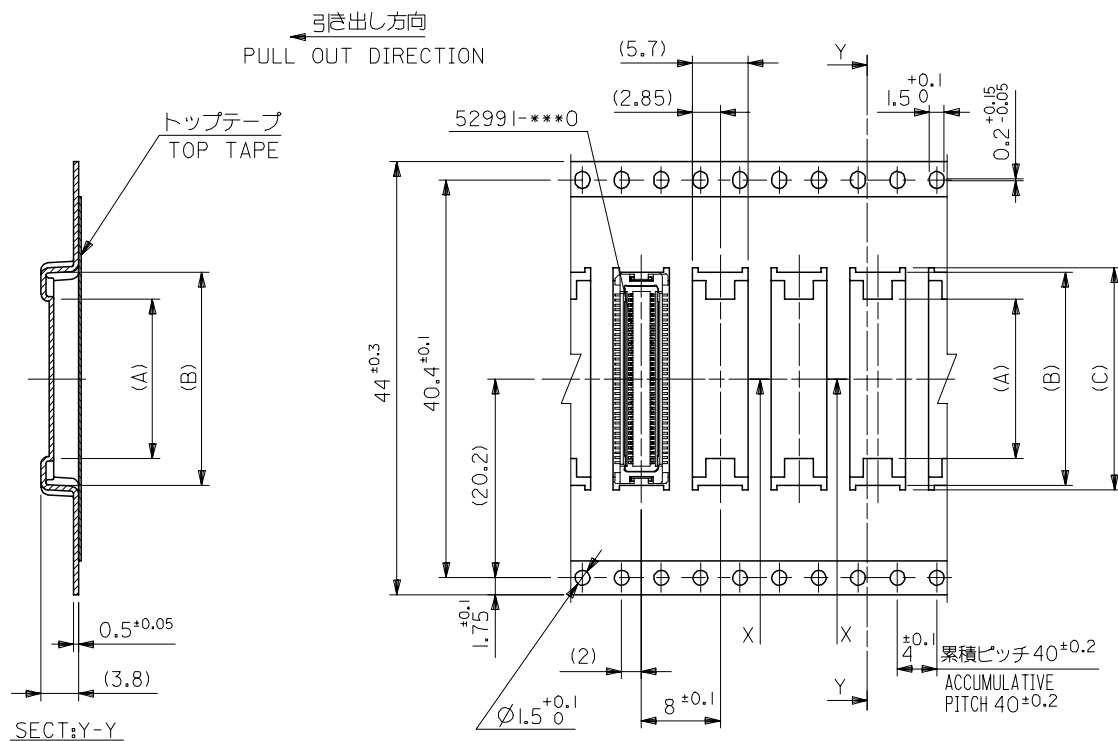
32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

REVISED EC NO: J2006-0604 DRWN: AIDA CHKD: KTOYODA APPR: NUKITA		DESCRIPTION REV	52991-***8		MODEL NO.	32	37.4	33.4	17.6	16.6	11.2	52991-0508	50	
						キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.	
			GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY			SCALE ---	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION			
			10 UNDER	± ---	DRAWN BY T. YASUI		DATE '96/04/15	TITLE 0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-						
			10 OVER 30 UNDER	± ---	CHECKED BY T. ITO		DATE '01/01/31							
			30 OVER	± ---	APPROVED BY M. FUKUSHIMA		DATE '01/01/31	MOLEX INCORPORATED						
			ANGULAR ± --- °		MATERIAL NO.			DOCUMENT NO.					SHEET NO.	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART			SD-52991-005					4 OF 6	
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											



32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

REVISED EC NO: J2006-0604 DRWN:NAIDA 2005/08/31 CHKD:KTOYODA 2005/09/01 APPR:NUKITA 2005/09/09	DESCRIPTION	52991-***8		MODEL NO.	32	37.4	33.4	20.1	19.1	13.7	52991-0608	60		
					キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.		
		GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY			SCALE ---		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION		
		10 UNDER		± ---	DRAWN BY S.AIHARA		DATE '96/04/01		TITLE 0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-					
		10 OVER 30 UNDER		± ---	CHECKED BY T. ITO		DATE '01/01/31							
		30 OVER		± ---	APPROVED BY M. FUKUSHIMA		DATE '01/01/31		MOLEX INCORPORATED					
		ANGULAR ± --- °		MATERIAL NO.		DOCUMENT NO.								SHEET NO.
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3			SEE CHART					SD-52991-005		5 OF 6	
D	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												



SECT:X-X
(SCALE 4:1)

44mm幅キャリアテープ
44mm WIDTH CARRIER TAPE

44	49.4	45.4	25.1	24.1	18.7	52991-0808	80
			22.6	21.6	16.2	52991-0708	70
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.

52991-***8 MODEL NO.

REVISED EC NO: J2006-0604 DRWN:NAIDA CHKD:KTOYODA APPR:NUKITA	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± ---	DRAWN BY T. YASUI	DATE '96/04/15	TITLE 0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-				
		10 OVER 30 UNDER	± ---	CHECKED BY T. ITO	DATE '01/01/31					
		30 OVER	± ---	APPROVED BY M. FUKUSHIMA	DATE '01/01/31	MOLEX INCORPORATED				
		ANGULAR	± --- °	MATERIAL NO.	DOCUMENT NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-52991-005		6 OF 6		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								