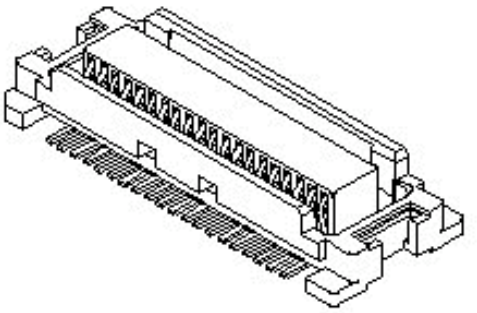
This document was generated on 04/15/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0529910708

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, 70 Circuits



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-52991-003 (PDF)
RoHS Certificate of Compliance (PDF)

General

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

Physical

Circuits (Loaded)	70
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, RPS-52991-012, RPS-52991-013, 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
Halogen-Free

China RoHS

Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

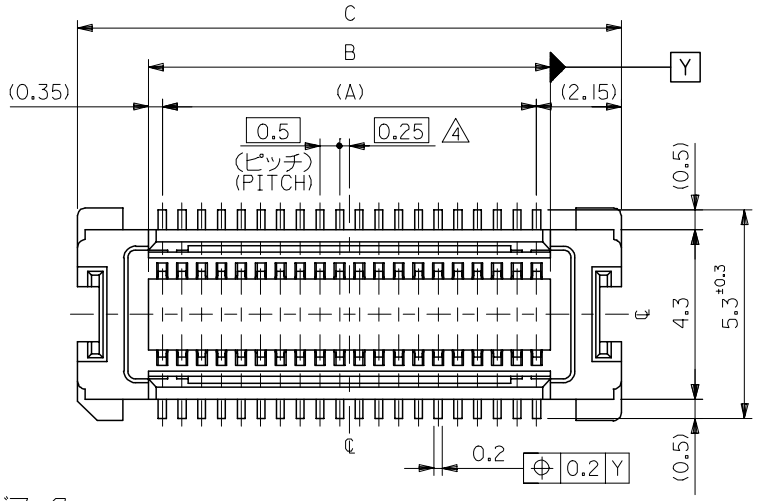
Please visit the Contact Us section for any non-product compliance questions.

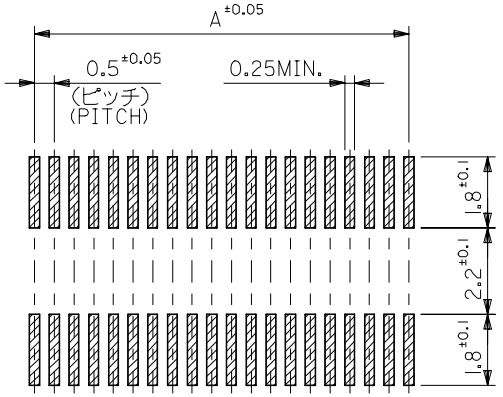
Search Parts in this Series
52991Series

Mates With
53916 , 53748

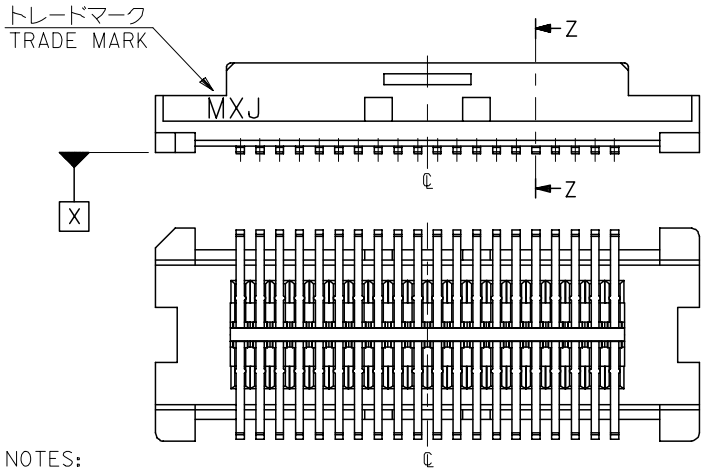
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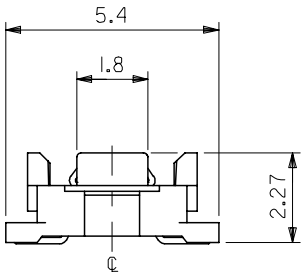
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

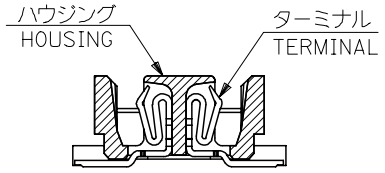




参考基板レイアウト（マウント面）
P.C.BOARD PATTERN
DIMENSION.(REF.)
(MOUNTING AREA)







SECT.Z-Z

C	B	A	MATERIAL NO.	極数 CIRCUIT
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

MODEL NO. 52991-×××0

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.
4. （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.

REVISED
EC NO: J2007-0273 2006/07/28
DRWN:TENAGASE 2006/08/03
CHKD:THARUYAMA
APPR:NUKITA 2006/08/07
DESCRIPTION
REV D

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±3 °

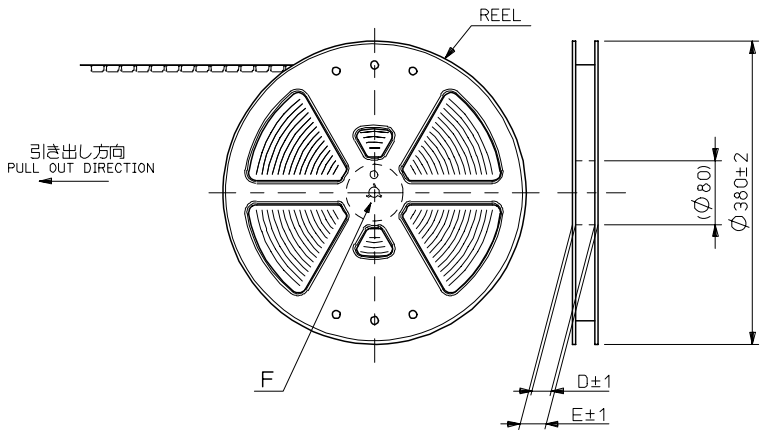
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

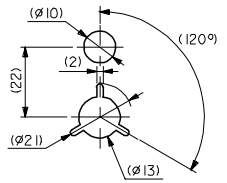
DIMENSION STYLE: MM ONLY
SCALE: 8:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: S.AIHARA DATE: '96/02/27
CHECKED BY: M.SASAO DATE: '01/12/26
APPROVED BY: M.SASAO DATE: '01/12/26
MATERIAL NO.: SEE CHART

TITLE: 0.5 B/B CONN REC HOUSING ASSY(W/O BOSS, W/O NAIL) -LEAD FREE-
molex MOLEX INCORPORATED
DOCUMENT NO.: SD-52991-004
SHEET NO.: 1 OF 1
SIZE: A3

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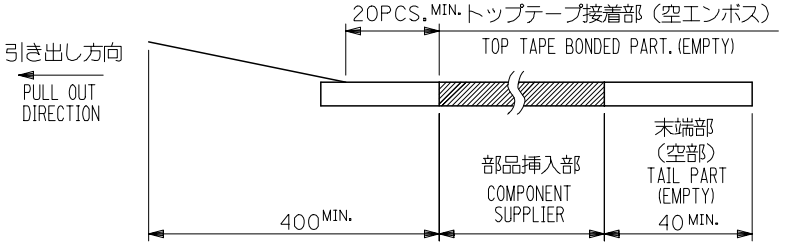




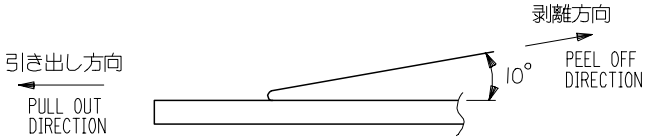
DETAIL F

NOTES

1. 製品詳細寸法については図面 SD-52991-004 を参照下さい。
   RE DETAILED DIMENSION, SEE SD-52991-004
2. 梱包数量：3000個／リール
   NUMBER OF CONNECTORS : 3000PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH



4. トップテープの剥離強度： 0.1N~1.3N (10gf~130gf)（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~1.3N (10gf~130gf)
   (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>

52991-***8	MODEL NO.

REVISED
EC NO: J2006-0604 2005/08/31
DRWN:NAIDA 2005/09/01
CHKD:KTOYODA
APPR:NUKITA 2005/09/09
DESCRIPTION
REV D

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR ±3 °	

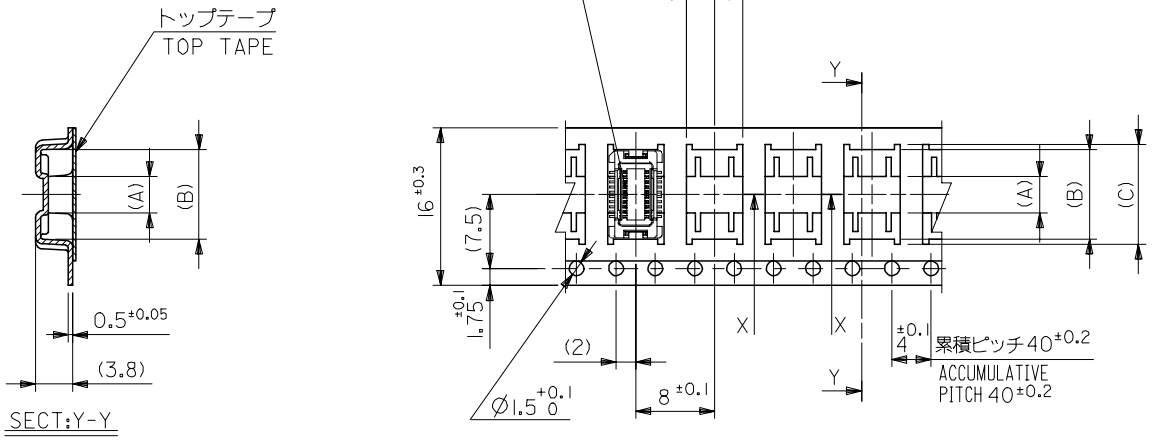
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

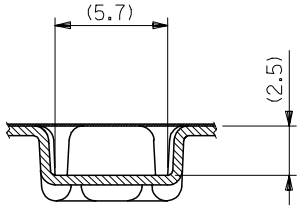
DIMENSION STYLE: MM ONLY	SCALE: ---	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: T.NIITSU DATE: '95/10/17	TITLE: 0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-		
CHECKED BY: T.ITO DATE: '01/01/31			
APPROVED BY: M.FUKUSHIMA DATE: '01/01/31	molex MOLEX INCORPORATED		
MATERIAL NO.: SEE CHART	DOCUMENT NO.: SD-52991-005	SHEET NO.: 1 OF 6	

SIZE A3

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引き出し方向
PULL OUT DIRECTION





SECT:X-X
(SCALE 4:1)

16mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

16	21.4	17.4	10.1	9.1	3.7	52991-0208	20
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 2005/08/31
DRWN:NAIDA 2005/09/01
CHKD:KTOYODA
APPR:NUKITA 2005/09/09
DESCRIPTION
REV D

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR	±--- °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: T.NIITSU DATE: '95/10/17
CHECKED BY: T.ITO DATE: '01/01/31
APPROVED BY: M.FUKUSHIMA DATE: '01/01/31
MATERIAL NO.: SEE CHART

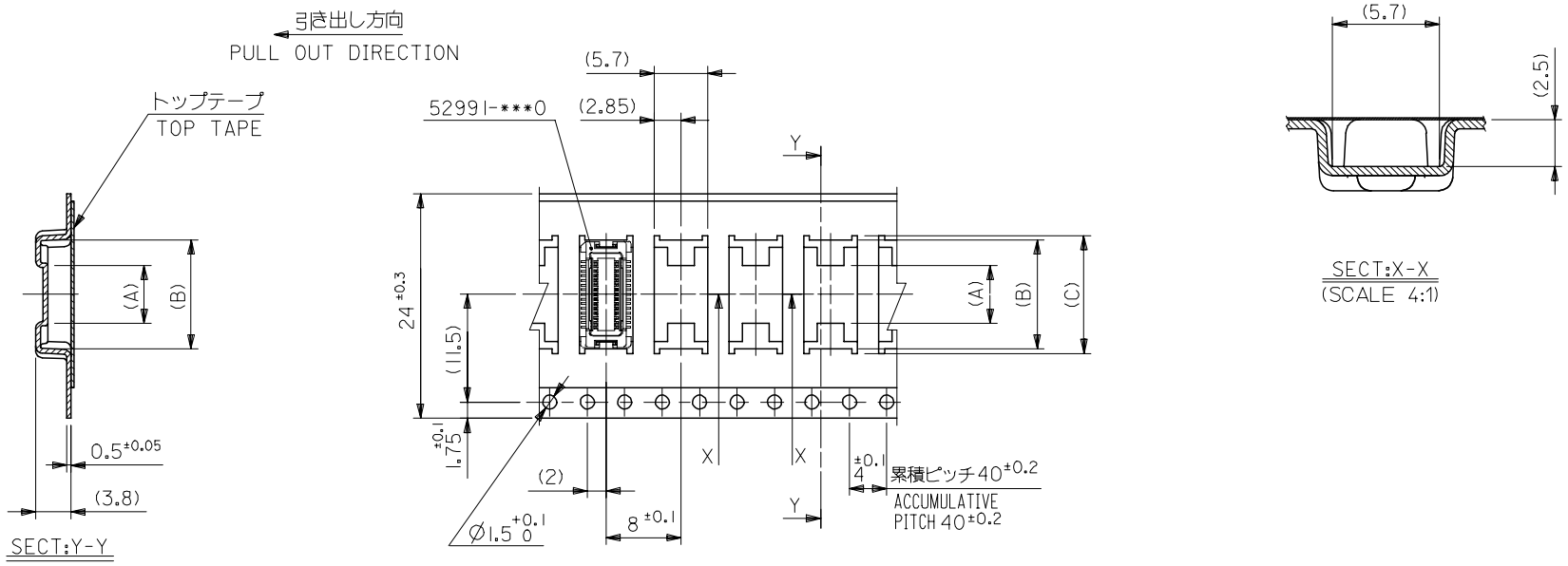
TITLE: 0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-

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DOCUMENT NO.: SD-52991-005
SHEET NO.: 2 OF 6

SIZE A3

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24mm幅キャリアテープ

24mm WIDTH CARRIER TAPE

キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.
24	29.4	25.4	15.1	14.1	7.4	52991-0408	40
			12.6	11.6	4.9	52991-0308	30

52991-***8 MODEL NO.

REVISED
EC NO: J2006-0604 2005/08/31
DRWN:NAIDA 2005/09/01
CHKD:KTOYODA 2005/09/09
APPR:NUKITA
DESCRIPTION
REV D

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR	±--- °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: S.AIHARA DATE: '96/04/01
CHECKED BY: T.ITO DATE: '01/01/31
APPROVED BY: M.FUKUSHIMA DATE: '01/01/31
MATERIAL NO.: SEE CHART

TITLE: 0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-

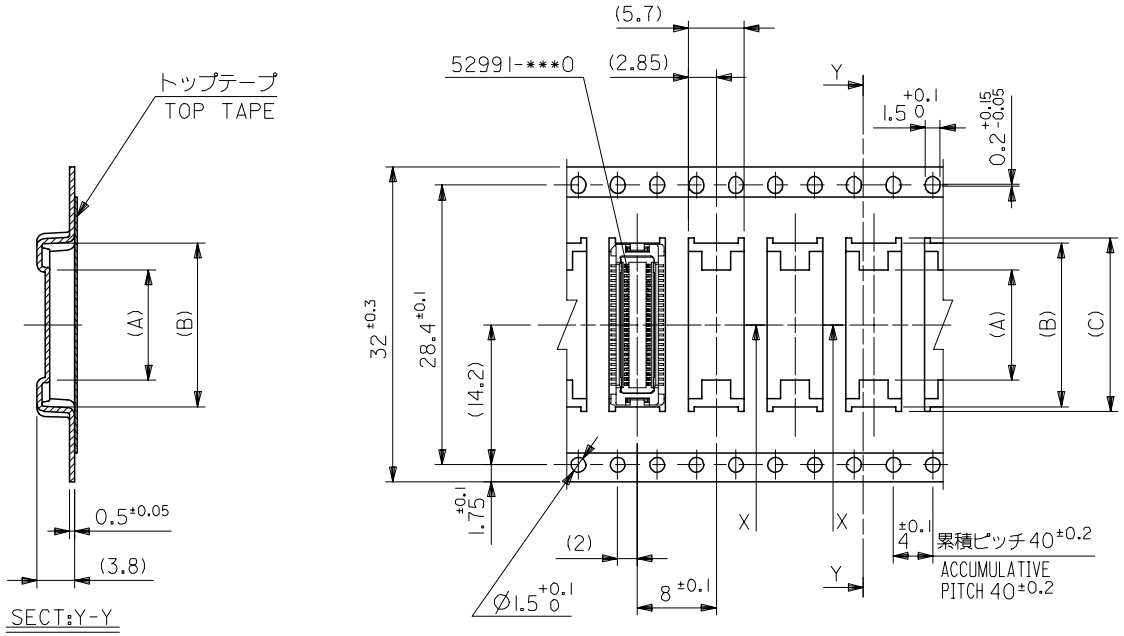
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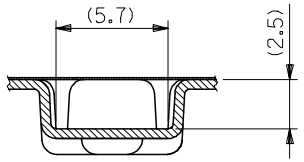
DOCUMENT NO.: SD-52991-005
SHEET NO.: 3 OF 6

SIZE A3

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引き出し方向
PULL OUT DIRECTION





SECT:X-X
(SCALE 4:1)

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

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.

52991-***8 MODEL NO.

REVISED
EC NO: J2006-0604 2005/08/31
DRWN:NAIDA 2005/09/01
CHKD:KTOYODA 2005/09/09
APPR:NUKITA
DESCRIPTION
REV D

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR	±--- °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: T.YASUI DATE: '96/04/15
CHECKED BY: T.ITO DATE: '01/01/31
APPROVED BY: M.FUKUSHIMA DATE: '01/01/31
MATERIAL NO.: SEE CHART

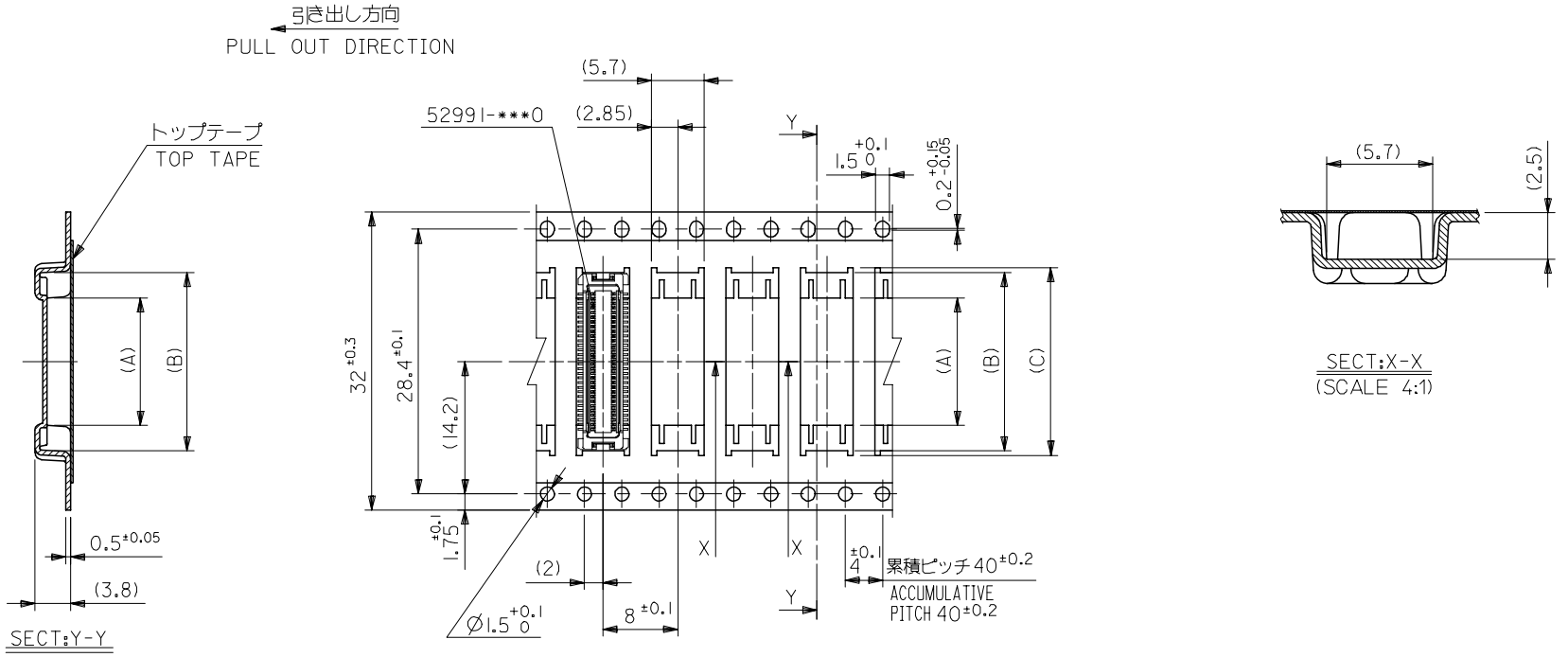
TITLE: 0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-

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DOCUMENT NO.: SD-52991-005
SHEET NO.: 4 OF 6

SIZE A3

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32mm幅キャリアテープ

32mm WIDTH CARRIER TAPE

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.

52991-***8 MODEL NO.

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR	±--- °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV	DESCRIPTION	
D	REVISED	2005/09/09
	EC NO: J2006-0604	2005/09/01
	DRWN:NAIDA	2005/08/31
	CHKD:KTOYODA	
	APPR:NUKITA	

DIMENSION STYLE: MM ONLY | SCALE: --- | DESIGN UNITS: METRIC | THIRD ANGLE PROJECTION

DRAWN BY	S.AIHARA	DATE '96/04/01
CHECKED BY	T.ITO	DATE '01/01/31
APPROVED BY	M.FUKUSHIMA	DATE '01/01/31

TITLE: 0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-

MOLEX INCORPORATED

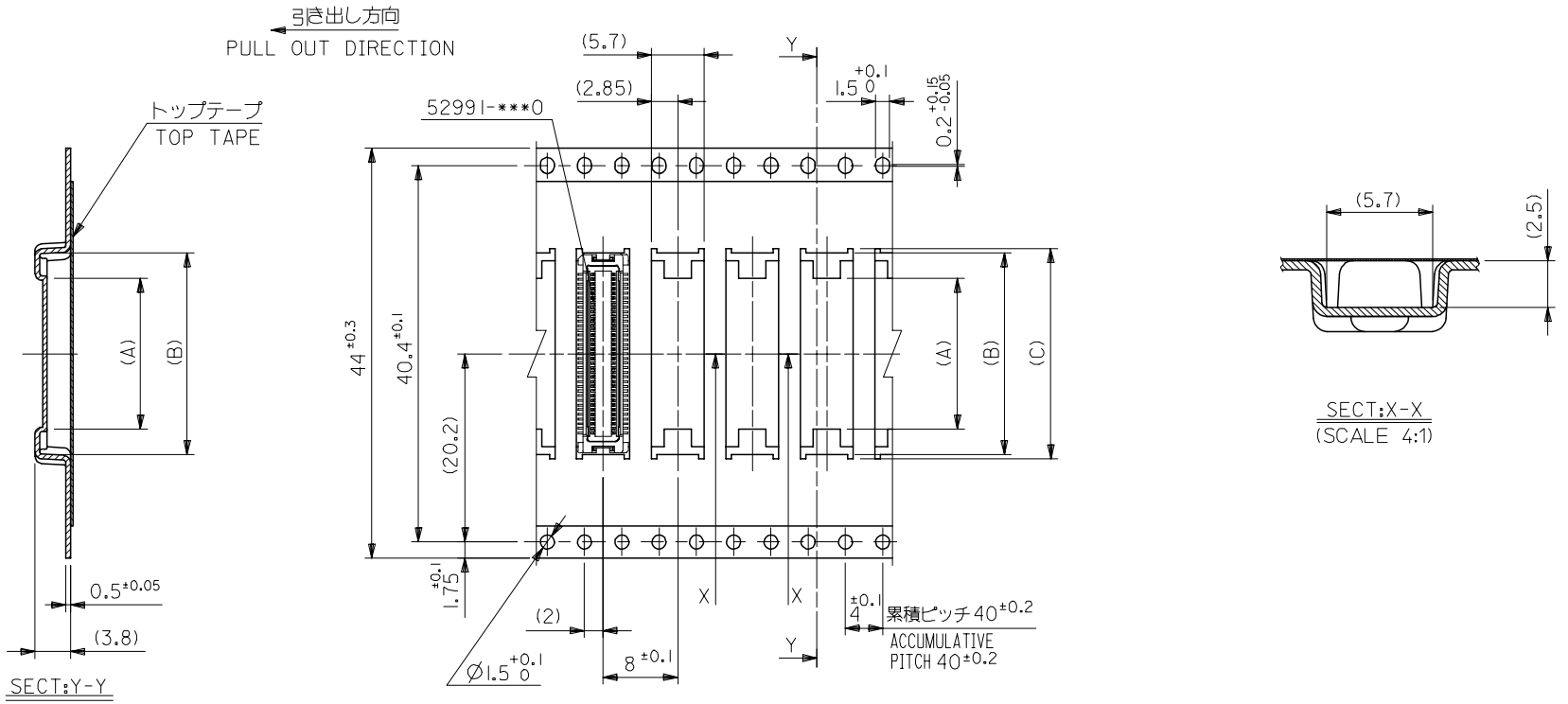
MATERIAL NO.: SEE CHART

DOCUMENT NO.: SD-52991-005

SHEET NO.: 5 OF 6

SIZE: A3

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44mm幅キャリアテープ

44mm WIDTH CARRIER TAPE

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

52991-***8 MODEL NO.

REVISED
EC NO: J2006-0604 2005/08/31
DRWN:NAIDA 2005/09/01
CHKD:KTOYODA
APPR:NUKITA 2005/09/09

REV D

DESCRIPTION

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR	±--- °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: T.YASUI DATE: '96/04/15
CHECKED BY: T.ITO DATE: '01/01/31
APPROVED BY: M.FUKUSHIMA DATE: '01/01/31
MATERIAL NO.: SEE CHART

TITLE: 0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-

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DOCUMENT NO.: SD-52991-005
SHEET NO.: 6 OF 6

SIZE A3

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