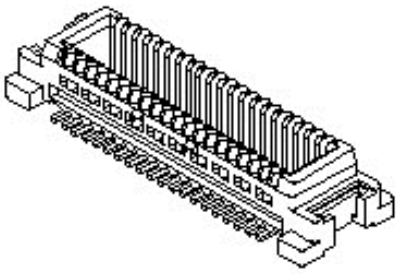
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This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0537480208
Status: Active
Overview: slimstack_050mm_020_pitch
Description: 0.50mm (.020") Pitch SlimStack™ Plug, Surface Mount, Dual Row, Vertical, 3.00mm (.118") Stack Height, 20 Circuits, without Vacuum Pick-up Tape



Series image - Reference only

Documents:

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

General

Product Family	PCB Headers
Series	53748
Application	Board-to-Board
Overview	slimstack_050mm_020_pitch
Product Name	SlimStack™

Physical

Breakaway	No
Circuits (Loaded)	20
Circuits (maximum)	20
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Mated Height (in)	0.118 In
Mated Height (mm)	3.00 mm
Material - Metal	Brass
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
Polarized to PCB	No
Shrouded	Fully
Stackable	No
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

Packaging Specification	SPK-53748-001
Product Specification	PS-52991-003, RPS-52991-009, RPS-52991-013, RPS-52991-014, RPS-52991-019
Sales Drawing	SD-53748-002, SD-53748-005

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
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

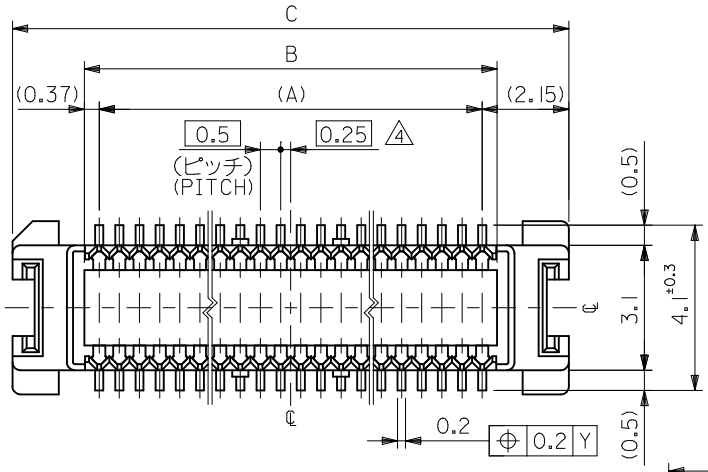
Please visit the Contact Us section for any non-product compliance questions.

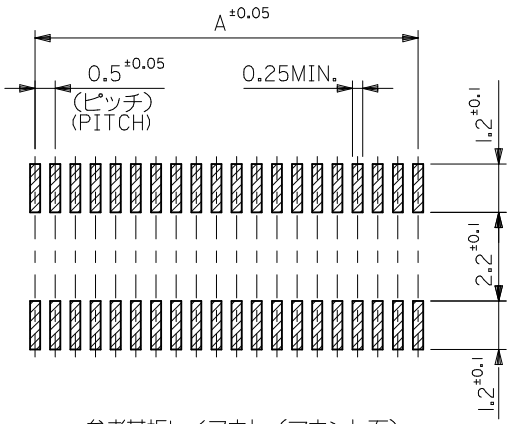
Search Parts in this Series
53748Series

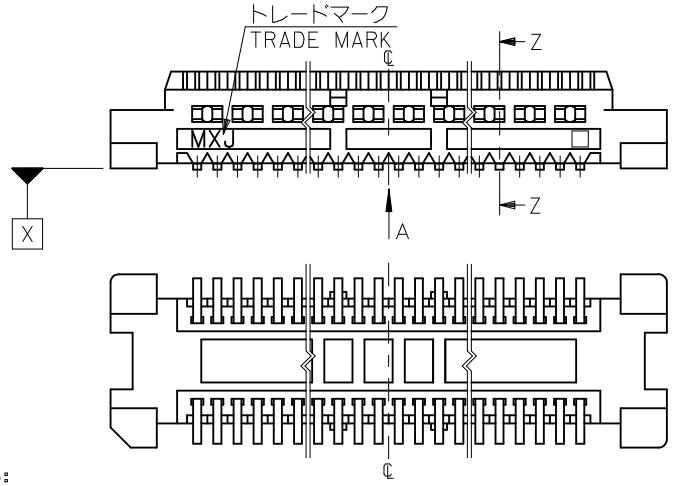
Mates With
SlimStack™ Receptacle 52991 , 54167

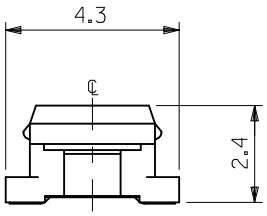
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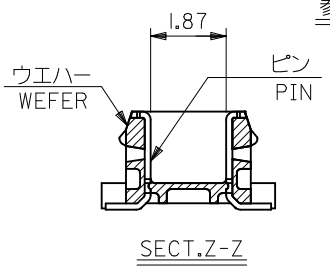
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION







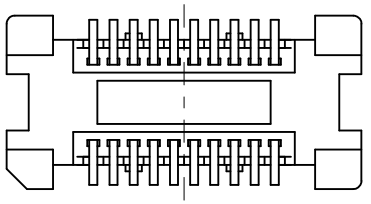




SECT.Z-Z

参考基板レイアウト（マウント面）

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



VIEW A (CASE OF 20-30CKT)

C	B	A	EMBOSSED TAPE ORDER No.	MATERIAL NO.	極数 CIRCUIT
23.8	20.24	19.5	53748-0808	53748-0800	80
21.3	17.74	17.0	53748-0708	53748-0700	70
18.8	15.24	14.5	53748-0608	53748-0600	60
13.8	10.24	9.5	53748-0408	53748-0400	40
11.3	7.74	7.0	53748-0308	53748-0300	30
8.8	5.24	4.5	53748-0208	53748-0200	20

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：黄銅（ｔ＝0．１５）
   TERMINAL:BRASS(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：５２９９１シリーズ ５４１６７シリーズ
   MATE WITH : 52991 SERIES, 54167 SERIES.
6. テール平坦度は、0.1MAX.
   TAIL COPLANARITY TO BE 0.1MAX.
7. ELV及びRoHS適合品
   ELV AND RoHS COMPLIANT

REVISED	EC NO: J2010-1926	DRWN:KTOYODA	CH'KD:SMARUYAMA	APPR:MSASAO	DESCRIPTION	REV
	2010/03/24	2010/03/26	2010/03/29			
						D

GENERAL TOLERANCES (UNLESS SPECIFIED)

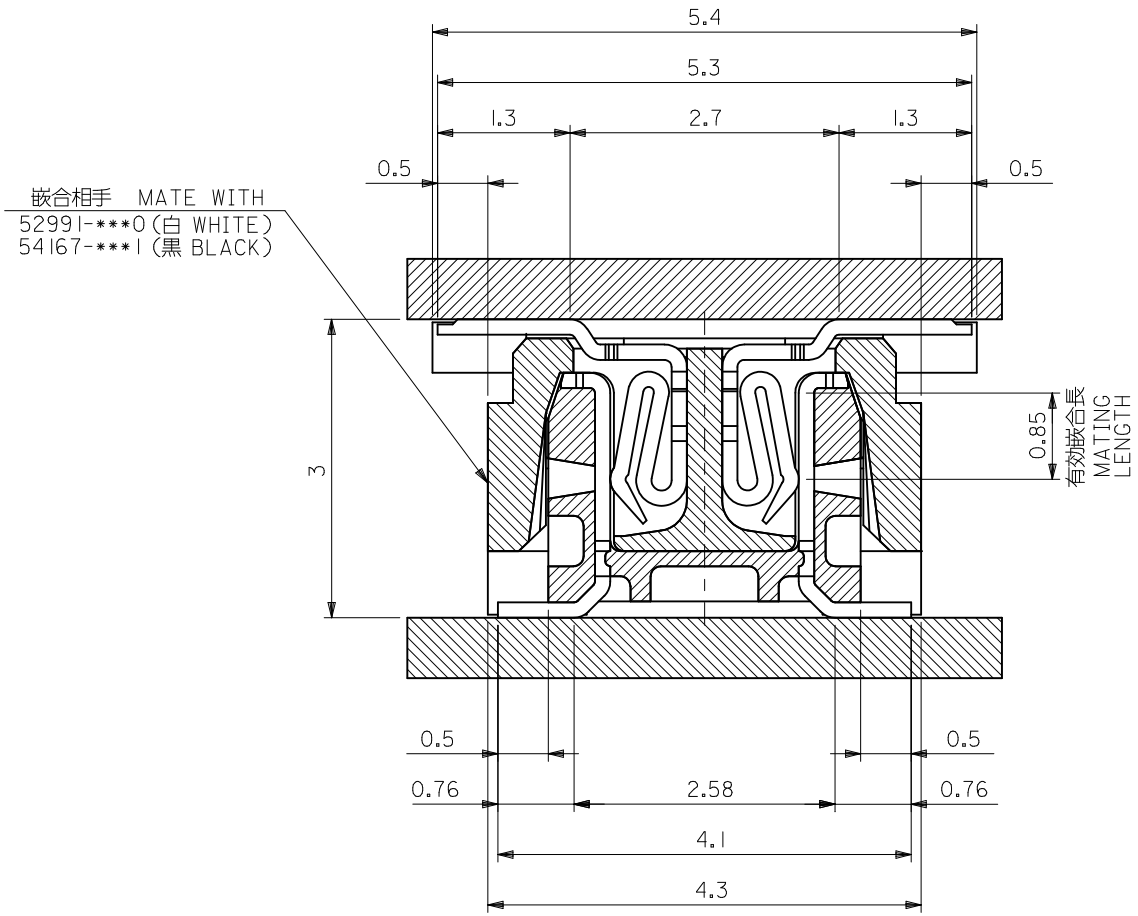
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±3 °

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: '96/2/27	TITLE: 0.5 B-TO-B CONN PLUG ASSY (W/O BOSS , W/O NAIL)	
CHECKED BY: M.SASAO	DATE: '01/12/26		
APPROVED BY: M.SASAO	DATE: '01/12/26	MOLEX INCORPORATED	
MATERIAL NO.: SEE TABLE		DOCUMENT NO.: SD-53748-002	SHEET NO.: 1 OF 2

SIZE A3

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嵌合断面図（参考）

MATED DRAWING (REF.)

MODEL NO.	53748-***0

REVISED	DRWN	CH'KD	APPR	DESCRIPTION	REV
EC NO: J2010-1926	K.TOYODA	S.MARUYAMA	M.SASAO		
	2010/03/24	'01/12/26	2010/03/29		
					D

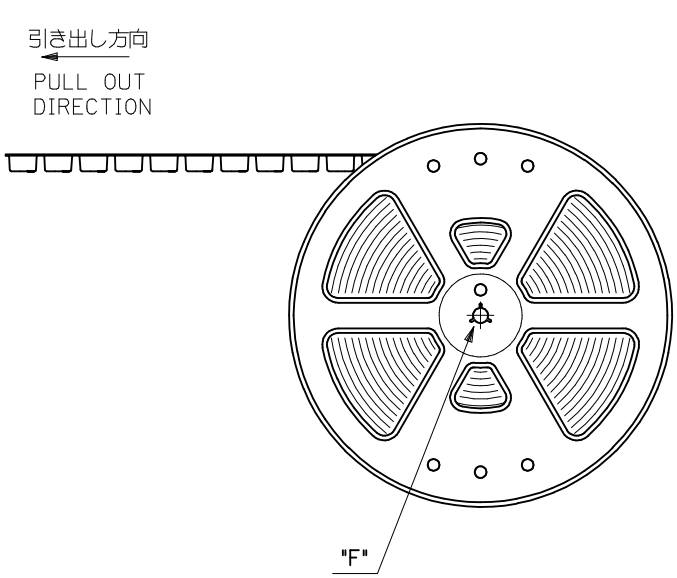
GENERAL TOLERANCES (UNLESS SPECIFIED)	
10 UNDER	± ---
10 OVER 30 UNDER	± ---
30 OVER	± ---
ANGULAR ±--- °	

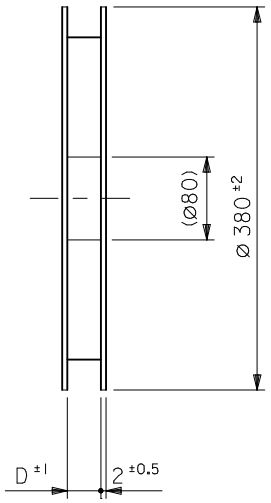
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

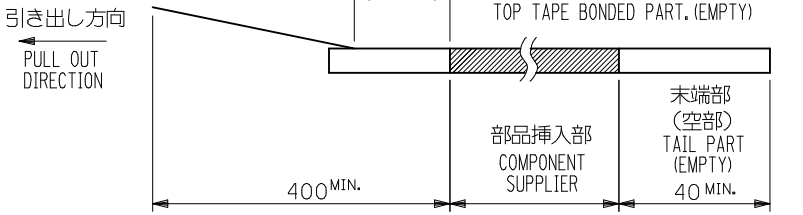
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DRAWN BY: S.AIHARA DATE: '96/2/27	TITLE: 0.5 B-TO-B CONN PLUG ASSY (W/O BOSS ,W/O NAIL)		
CHECKED BY: M.SASAO DATE: '01/12/26			
APPROVED BY: M.SASAO DATE: '01/12/26	molex MOLEX INCORPORATED		
MATERIAL NO.: SEE TABLE	DOCUMENT NO.: SD-53748-002	SHEET NO.: 2 OF 2	
SIZE: A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

NOTES

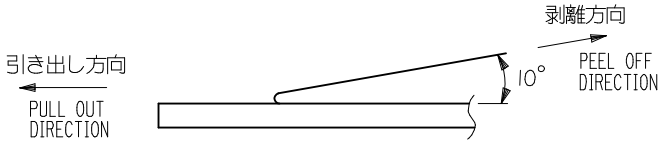
1. 製品詳細寸法については図面 SD-53748-002 を参照下さい。
   RE DETAILED DIMENSION, SEE SD-53748-002
2. 梱包数量：３０００個／リール
   NUMBER OF CONNECTORS : 3000PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH



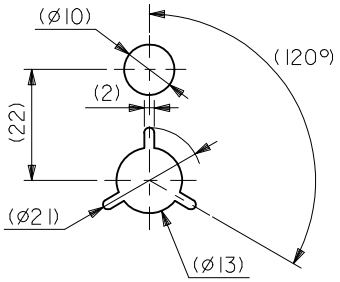




4. トップテープの剥離強度：0.1N ～ 0.7N(10.2gf ～ 71.4gf)
   （剥離方向は下図参照）
   尚、本規格値は出荷時に適用。（但し、輸送時に剥離が発生しないこと。）
   PEELING OFF FORCE OF TOP TAPE : 0.1N ～ 0.7N(10.2gf ～ 71.4gf)
   (PEELING DIRECTION AS SHOWN IN FOLLOWING FIG,)
   THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
   PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.



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"

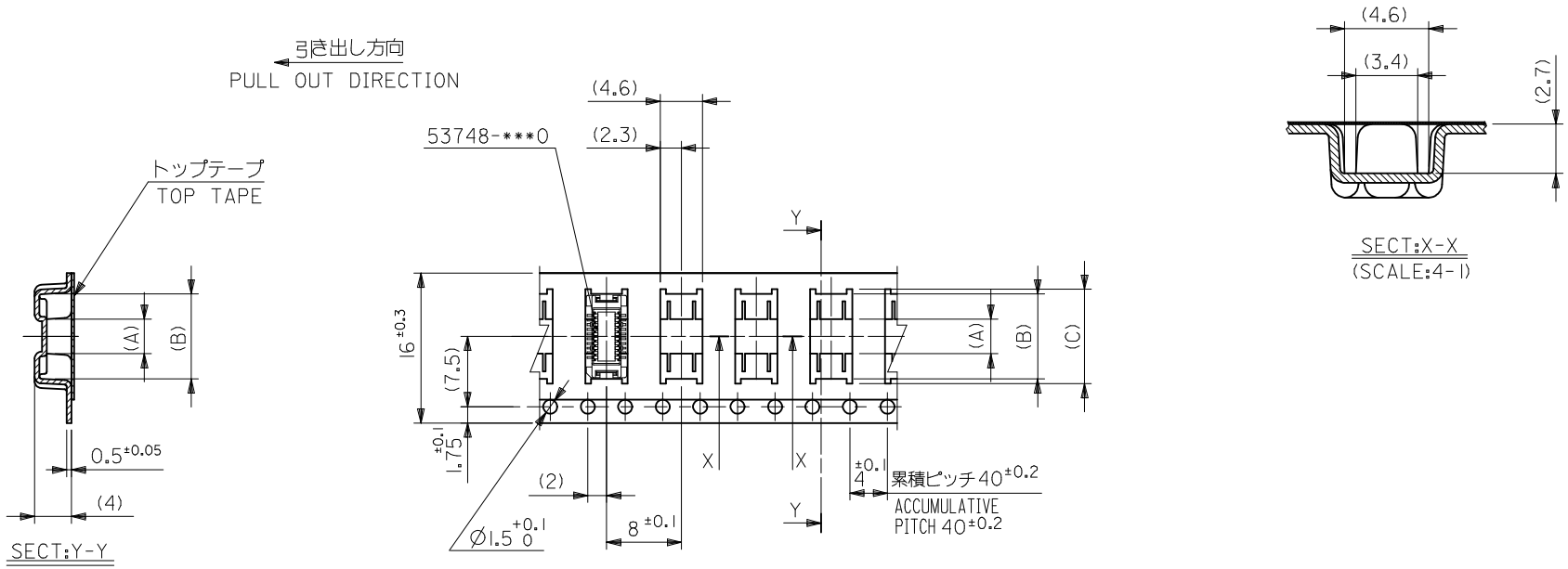
REVISED				
EC NO: J2009-0487				
DRWN:NAKAMURAA	2008/12/08			
CH'KD:T. HARUYAMA	2008/12/08			
APPR:NUKITA	2009/01/09			
DESCRIPTION				
REV				
D				

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 BTB CONN PLUG (BOSS,NAIL)EMBSTP PKG	
CHECKED BY: T.ITO	DATE: '01/1/23		
APPROVED BY: M.FUKUSHIMA	DATE: '01/1/23	molex MOLEX INCORPORATED	
MATERIAL NO.: SEE TABLE		DOCUMENT NO.: SD-53748-005	SHEET NO.: 1 OF 5
SIZE: A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

MODEL NO. 53748-***8



16mm幅キャリアテープ

16mm WIDTH CARRIER TAPE

16	17.5	10.1	9.1	3.7	53748-0208	20
キャリアテープ幅 CARRIER TAPE WIDTH	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.

MODEL NO. 53748-***8

REVISED
EC NO: J2009-0487 2008/12/08
DRWN:NAKAMURAA 2008/12/08
CH'KD:T. HARUYAMA 2009/01/09
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.NIITSU DATE: '95/10/17
CHECKED BY: T.ITO DATE: '01/1/23
APPROVED BY: M.FUKUSHIMA DATE: '01/1/23

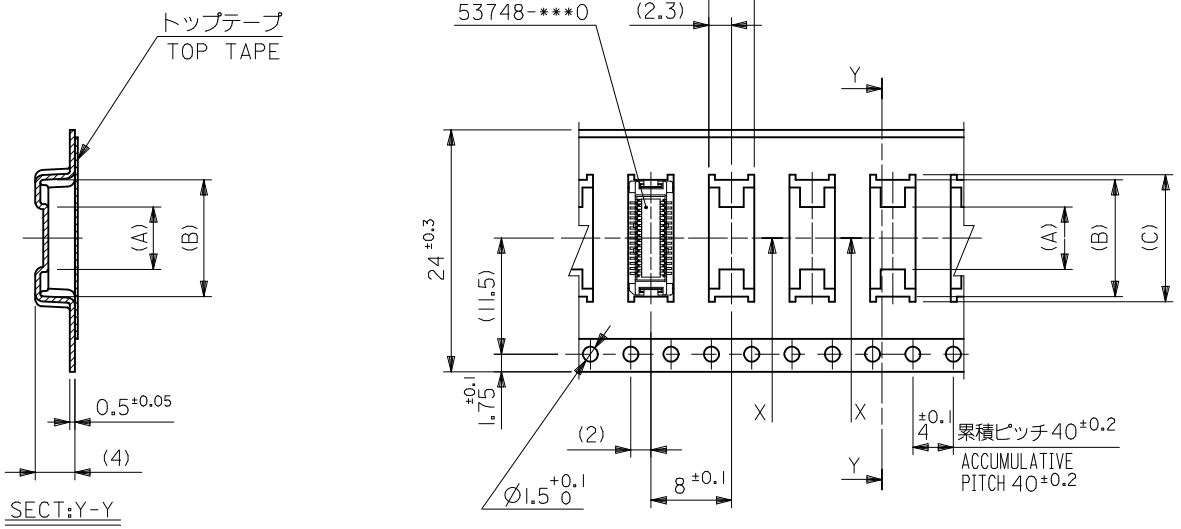
TITLE: 0.5 BTB CONN PLUG(W/O BOSS W/O NAIL)EMBSTP PKG

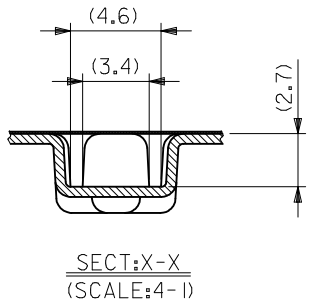
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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-53748-005
SHEET NO.: 2 OF 5
SIZE: A3

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引き出し方向
PULL OUT DIRECTION





24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

キャリアテープ幅 CARRIER TAPE WIDTH	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.
24	25.5	15.1	14.1	7.4	53748-0408	40
		12.6	11.6	4.9	53748-0308	30

MODEL NO. 53748-***8

REVISED
EC NO: J2009-0487 2008/12/08
DRWN:NAKAMURAA 2008/12/08
CH'KD:T.HARUYAMA 2009/01/09
APPR:NUKITA
DESCRIPTION
REV D

GENERAL TOLERANCES (UNLESS SPECIFIED)

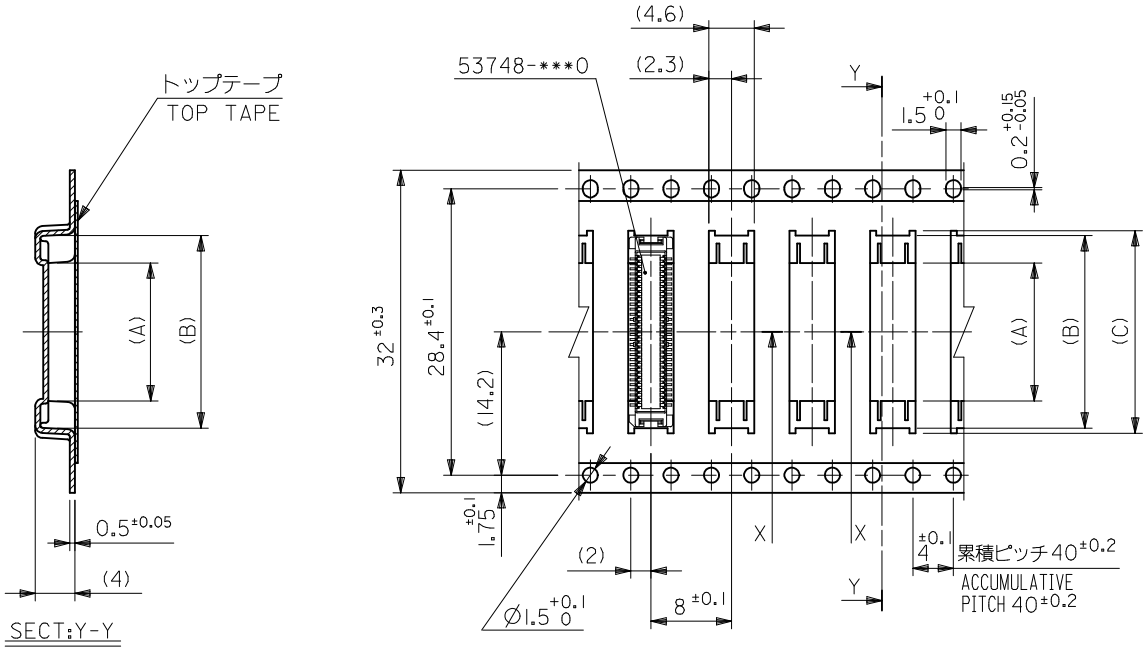
10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR ±--- °	

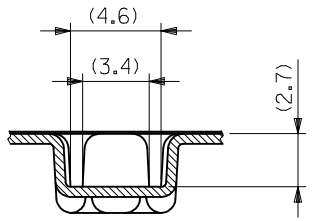
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	---
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	S.AIHARA '96/4/1
CHECKED BY / DATE	T.ITO '01/1/23
APPROVED BY / DATE	M.FUKUSHIMA '01/1/23
MATERIAL NO.	SEE TABLE
TITLE	0.5 BTB CONN PLUG(W/O BOSS W/O NAIL)EMBSTP PKG
	MOLEX INCORPORATED
DOCUMENT NO.	SD-53748-005
SHEET NO.	3 OF 5
SIZE	A3

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引き出し方向
PULL OUT DIRECTION





32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

32	33.5	20.1	19.1	13.7	53748-0608	60
キャリアテープ幅 CARRIER TAPE WIDTH	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.

MODEL NO. 53748-***8

REVISED
EC NO: J2009-0487 2008/12/08
DRWN:NAKAMURAA 2008/12/08
CH'KD:T.HARUYAMA 2009/01/09
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

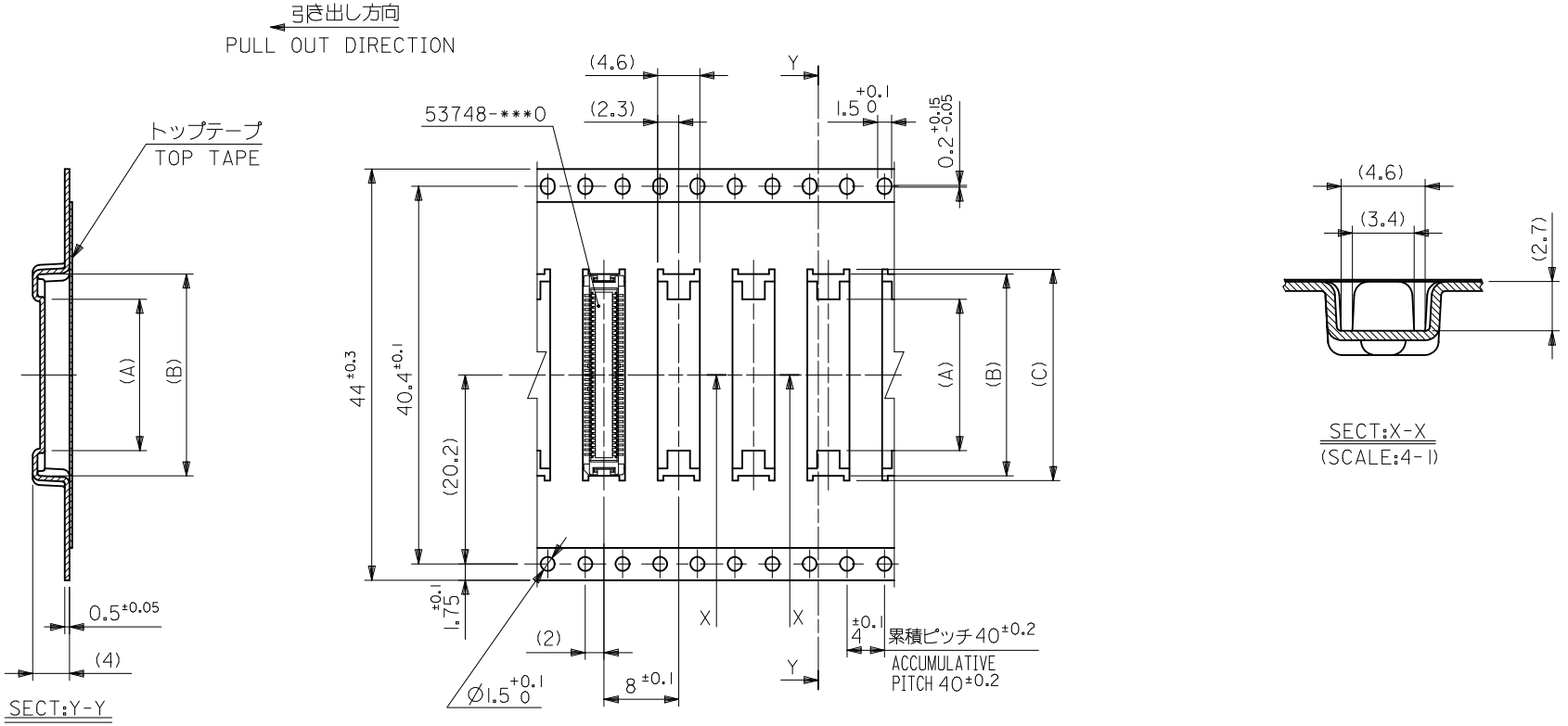
DRAWN BY: S.AIHARA DATE: '95/11/13
CHECKED BY: T.ITO DATE: '01/1/23
APPROVED BY: M.FUKUSHIMA DATE: '01/1/23

TITLE: 0.5 BTB CONN PLUG (W/O BOSS W/O NAIL)ENBSTP PKG

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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-53748-005
SHEET NO.: 4 OF 5
SIZE: A3

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44mm幅キャリアテープ

44mm WIDTH CARRIER TAPE

44	45.5	25.1	24.1	18.7	53748-0808	80
		22.6	21.6	16.2	53748-0708	70
キャリアテープ幅 CARRIER TAPE WIDTH	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.

MODEL NO. 53748-***8

REVISED
EC NO: J2009-0487 2008/12/08
DRWN:NAKAMURAA 2008/12/08
CH'KD:T. HARUYAMA 2009/01/09
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: '96/4/16
CHECKED BY: T.ITO DATE: '01/1/23
APPROVED BY: M.FUKUSHIMA DATE: '01/1/23

TITLE: 0.5 BTB CONN PLUG(W/O BOSS W/O NAIL)EMBSTP PKG

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-53748-005
SHEET NO.: 5 OF 5
SIZE: A3

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