

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

Documents:

3D Model

Drawing (PDF)

Product Specification PS-52991-003 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Overview

Product Name

PCB Headers

53748

Board-to-Board

slimstack_050mm_020_pitch

SlimStack™

Physical

Breakaway

Circuits (Loaded)

Circuits (maximum)

First Mate / Last Break

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Mated Height (in)

Mated Height (mm)

Material - Metal

Material - Plating Mating

Material - Plating Termination

Number of Rows

Orientation

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Polarized to PCB

Shrouded

Stackable

Temperature Range - Operating

Termination Interface: Style

No

20

20

No

No

No

None

None

0.118 In

3.00 mm

Brass

Gold

Gold

2

Vertical

No

None

Embossed Tape on Reel

0.020 In

0.50 mm

4

0.1

No

Fully

No

-40°C to +105°C

Surface Mount

Electrical

Current - Maximum per Contact

Voltage - Maximum

0.5A

50V

Material Info

Reference - Drawing Numbers

Packaging Specification

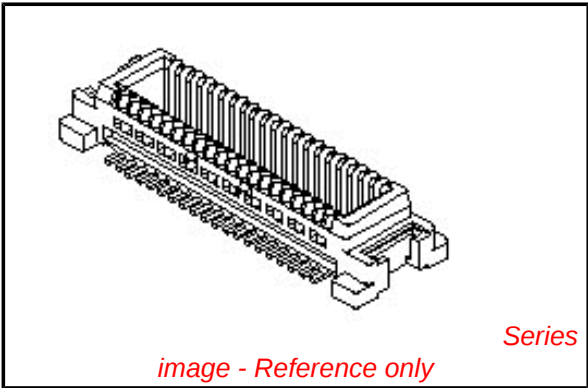
Product Specification

Sales Drawing

SPK-53748-001

PS-52991-003, RPS-52991-009, RPS-52991-013, RPS-52991-014, RPS-52991-019

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

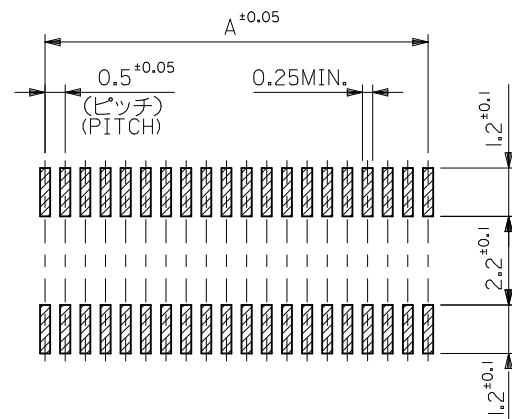
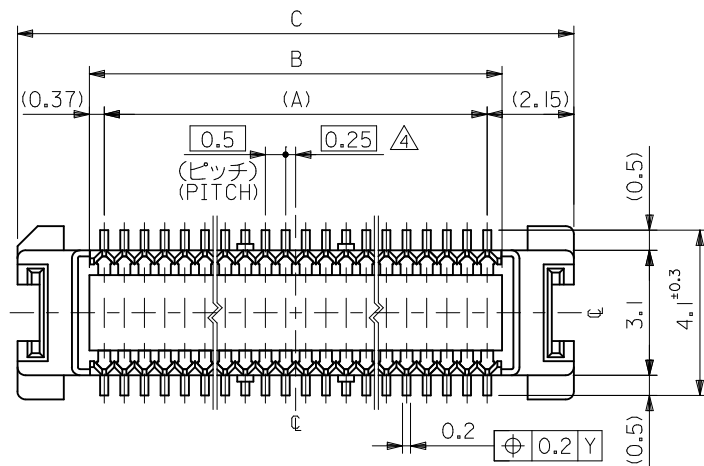
53748Series

Mates With

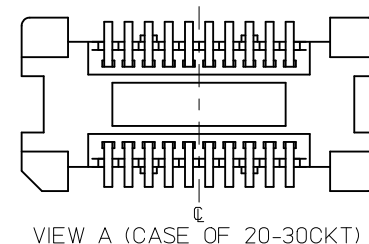
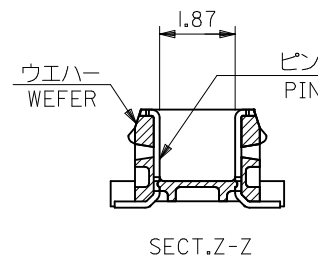
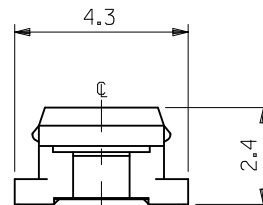
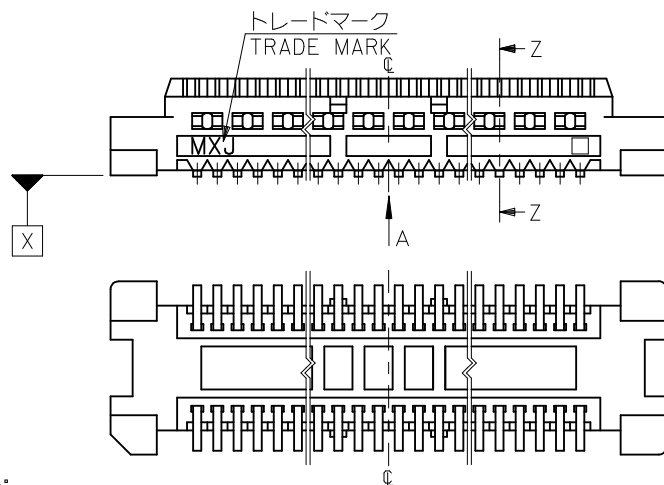
SlimStack™ Receptacle [52991](#) , [54167](#)

This document was generated on 05/26/2010

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)



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 0.15 MAX. 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、0.1 MAX.
TAIL COPLANARITY TO BE 0.1 MAX.
7. ELV 及び RoHS 適合品
ELV AND RoHS COMPLIANT

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
C	B	A	EMBOSSED TAPE ORDER No.	MATERIAL NO.	極数 CIRCUIT

REVISED EC NO: J2010-1926 DRW:K TOYODA CHKD:SMARUYAMA APPR:MSASAO REV D	DESCRIPTION 2010/03/24 2010/03/26 2010/03/29	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 8:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY S. AIHARA	DATE '96/2/27	TITLE 0.5 B-TO-B CONN PLUG ASSY (W/O BOSS , W/O NAIL)				
		10 OVER 30 UNDER	± 0.25	CHECKED BY M. SASAO	DATE '01/12/26					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE '01/12/26					
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-53748-002		1 OF 2		
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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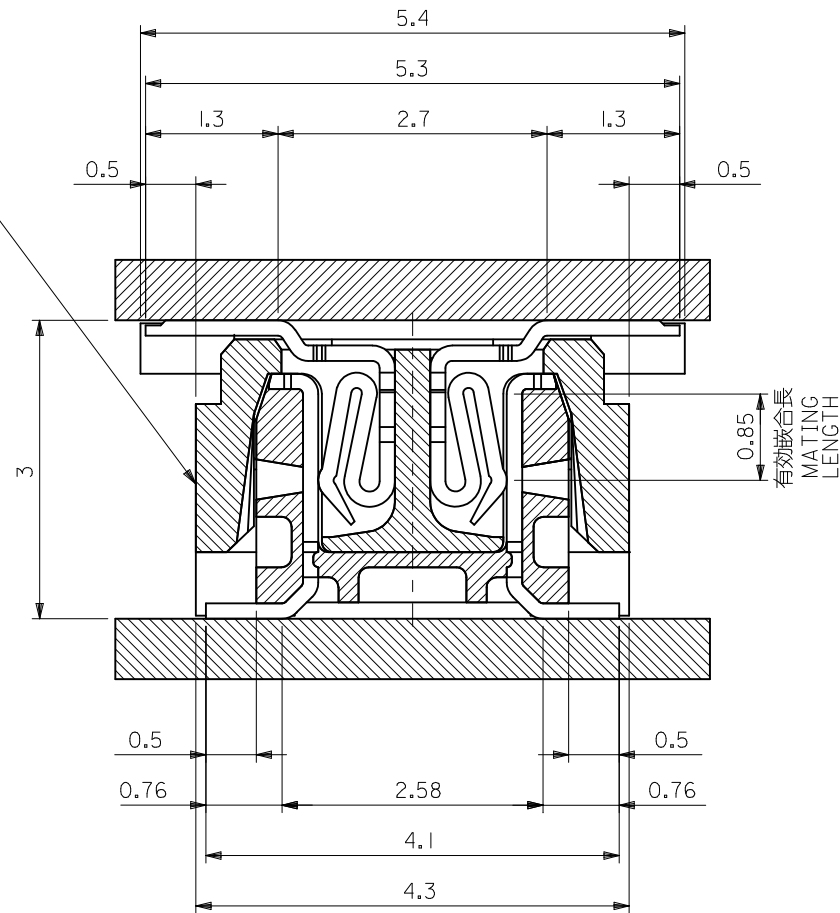
D

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B

A

嵌合相手 MATE WITH
52991-***0 (白 WHITE)
54167-***1 (黒 BLACK)



嵌合断面図 (参考)
MATED DRAWING (REF.)

MODEL NO. 53748-***0

REVISED
EC NO. J2010-1926
DRAWN: KTOYODA
CHKD: SMARUYAMA
APPR: MSASAO
2010/03/24
'01/12/26
2010/03/29

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

DRAWN BY	DATE
S. AIHARA	'96/2/27
CHECKED BY	DATE
M. SASAO	'01/12/26
APPROVED BY	DATE
M. SASAO	'01/12/26

MATERIAL NO.

SEE TABLE

SIZE
A3SCALE
8:1DESIGN UNITS
METRICTHIRD ANGLE
PROJECTION

0.5 B-T0-B CONN
PLUG ASSY
(W/O BOSS, W/O NAIL)

MOLEX INCORPORATED

DOCUMENT NO.

SD-53748-002

SHEET NO.

2 OF 2

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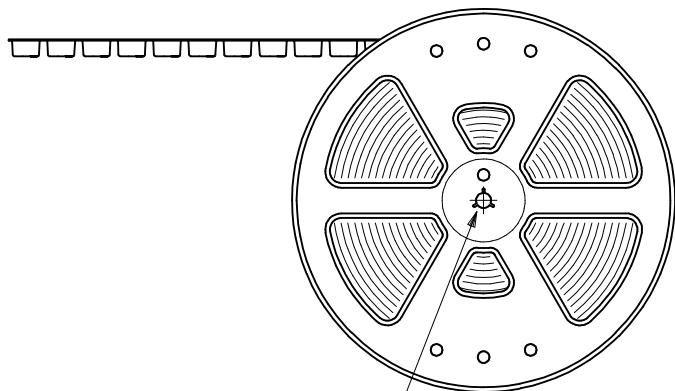
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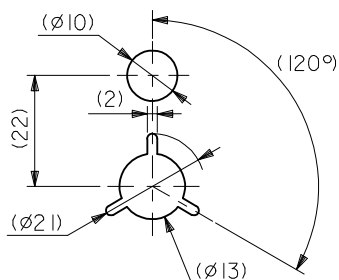
NOTES

- 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
- 梱包数量：3000個/リール
NUMBER OF CONNECTORS : 3000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH

引き出し方向
PULL OUT
DIRECTION

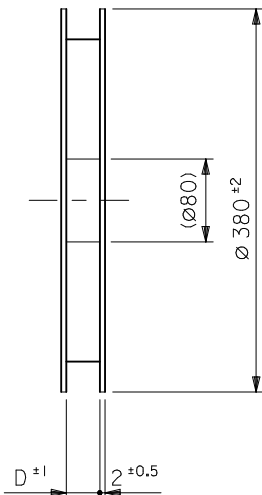


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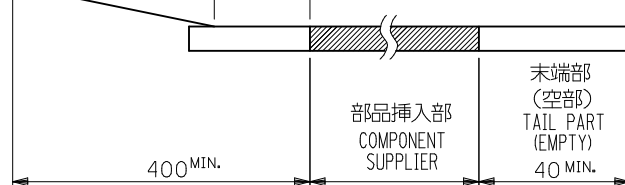


DETAIL "F"

引き出し方向
PULL OUT
DIRECTION



20PCS. MIN. トップテープ接着部 (空エンボス)
TOP TAPE BONDED PART. (EMPTY)

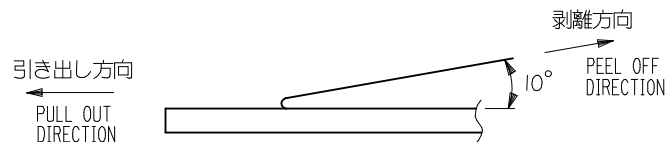


部品挿入部
COMPONENT
SUPPLIER

末端部
(空部)
TAIL PART
(EMPTY)
40 MIN.

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>

MODEL NO. 53748-***8

REVISED EC NO: J2009-0487 DRAWN: MAKURAA CHKD: T. HARUYAMA APPR: NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY T. NIITSU	DATE '95/10/17	TITLE 0.5 BTB CONN PLUG (BOSS,NAIL)EMBSTP PKG				
		10 OVER 30 UNDER	±0.25	CHECKED BY T. ITO	DATE '01/1/23					
		30 OVER	±0.3	APPROVED BY M. FUKUSHIMA	DATE '01/1/23	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
REV	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-53748-005		1 OF 5		
		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

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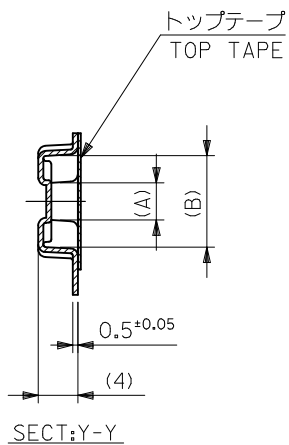
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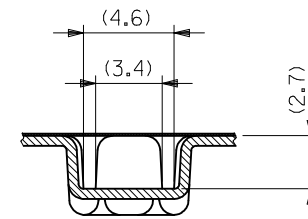
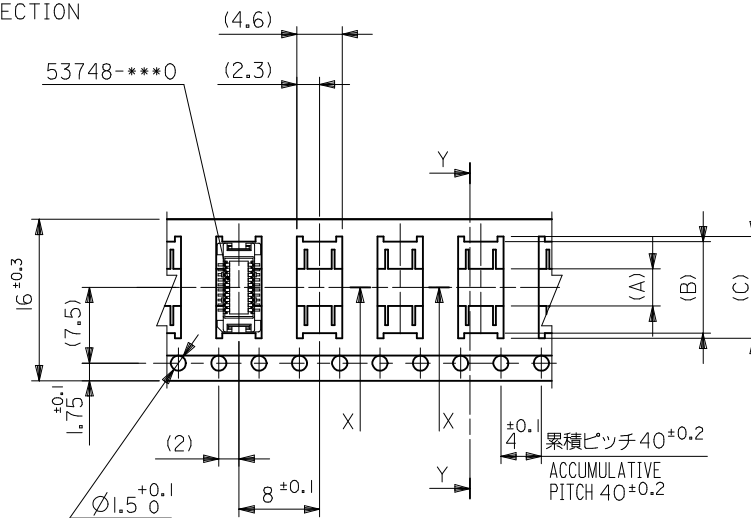
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引き出し方向
PULL OUT DIRECTION



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 DRWN:NAKAMURA 2008/12/08 CHKD:T. HARUYAMA 2008/12/08 APPR:NUKITA 2009/01/09 REV D	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
		10 UNDER	± ---	DRAWN BY T. NIITSU	DATE '95/10/17	TITLE 0.5 BTB CONN PLUG(W/O BOSS W/O NAIL)EMBSTP PKG		
		10 OVER 30 UNDER	± ---	CHECKED BY T. ITO	DATE '01/1/23			
		30 OVER	± ---	APPROVED BY M. FUKUSHIMA	DATE '01/1/23	 MOLEX INCORPORATED		
		ANGULAR ± --- °		MATERIAL NO.				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-53748-005		2 OF 5	
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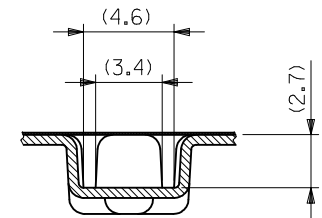
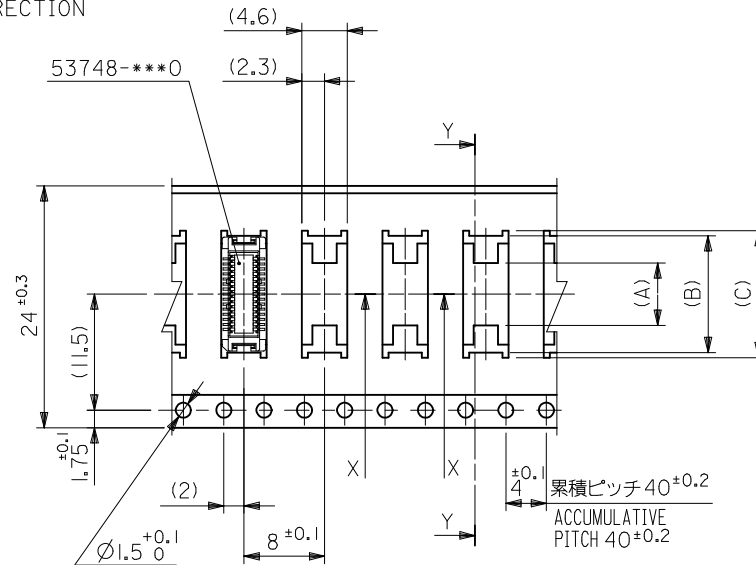
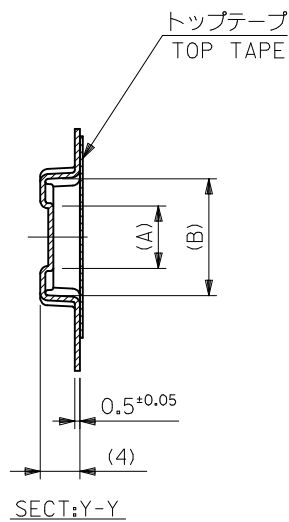
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引き出し方向
PULL OUT DIRECTION



SECT:X-X
(SCALE:4-1)

24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

24	25.5	15.1	14.1	7.4	53748-0408	40
		12.6	11.6	4.9	53748-0308	30
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 DRWN:NAKAMURA CHKD: T. HARUYAMA APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± ---	DRAWN BY S. AIHARA	DATE '96/4/1	TITLE 0.5 BTB CONN PLUG(W/O BOSS W/O NAIL)EMBSTP PKG				
		10 OVER 30 UNDER	± ---	CHECKED BY T. ITO	DATE '01/1/23					
		30 OVER	± ---	APPROVED BY M. FUKUSHIMA	DATE '01/1/23	MOLEX INCORPORATED				
		ANGULAR ± --- °		MATERIAL NO.						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-53748-005			3 OF 5		
	REV			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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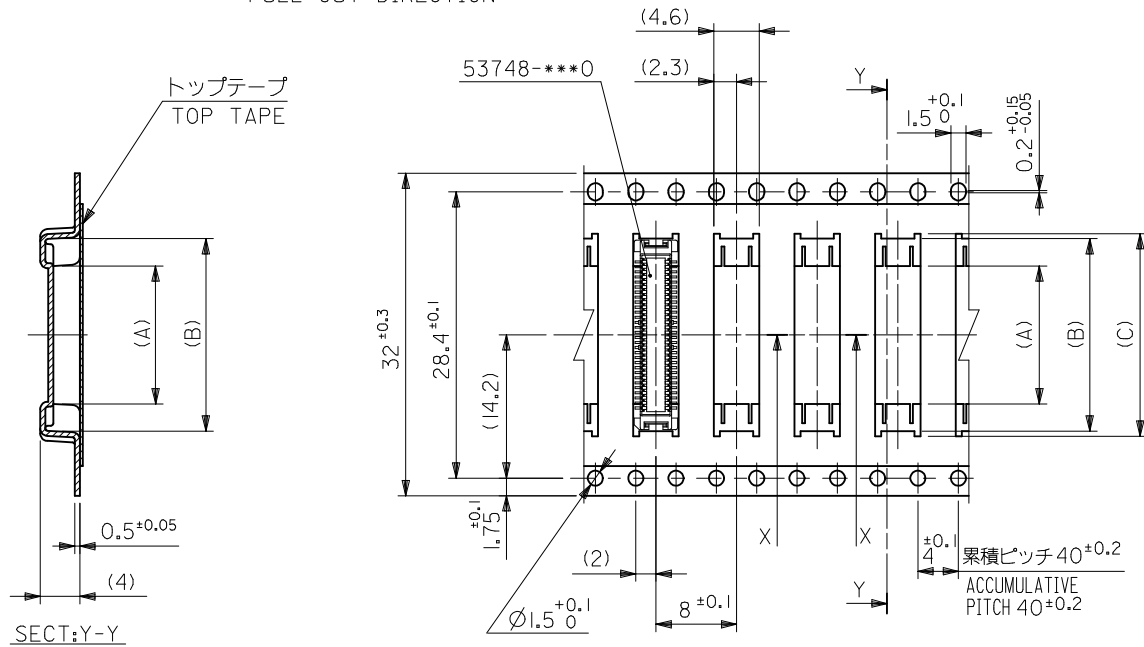
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引き出し方向
PULL OUT DIRECTION



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-***0	

REVISED EC NO: J2009-0487 DRWN: NAKAMURA CHKD: T. HARUYAMA APPR: NUKITA	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± ---	DRAWN BY S. AIHARA	DATE '95/11/13	TITLE 0.5 BTB CONN PLUG (W/O BOSS W/O NAIL)ENBSTP PKG				
		10 OVER 30 UNDER	± ---	CHECKED BY T. ITO	DATE '01/1/23					
		30 OVER	± ---	APPROVED BY M. FUKUSHIMA	DATE '01/1/23	MOLEX INCORPORATED				
		ANGULAR ± --- °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-53748-005		4 OF 5		
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