

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0537480708

Status:

Active

Overview:

slimstack_050mm_020_pitch

Description:

0.50mm (.020") Pitch SlimStack™ Plug, Surface Mount, Dual Row, Vertical, 3.00mm (.118") Stack Height, 70 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

70

70

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

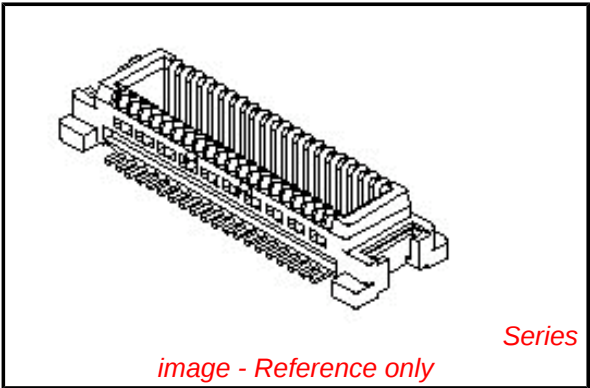
Product Specification

Sales Drawing

SPK-53748-001

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

SD-53748-002, SD-53748-005



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

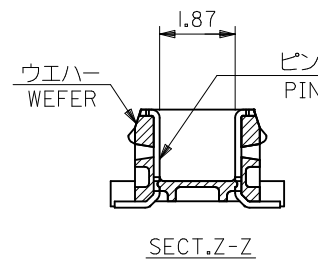
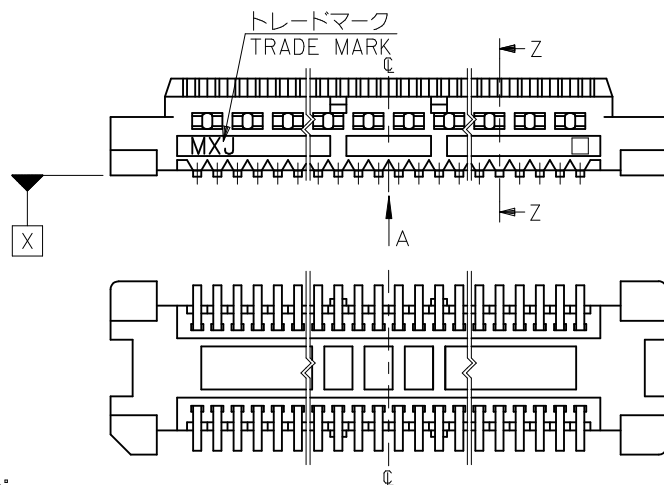
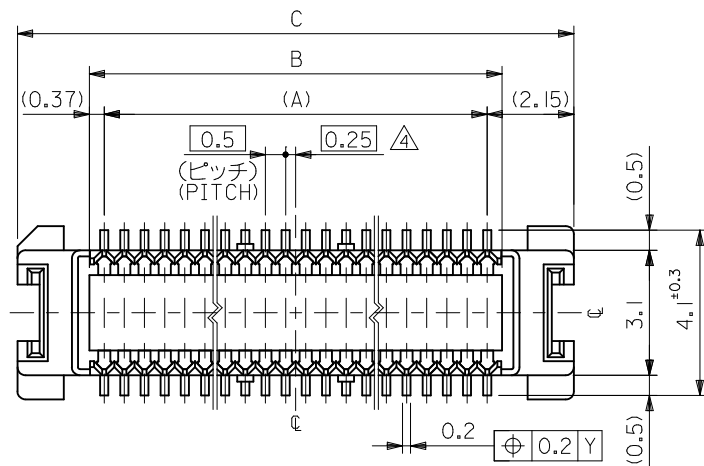
53748Series

Mates With

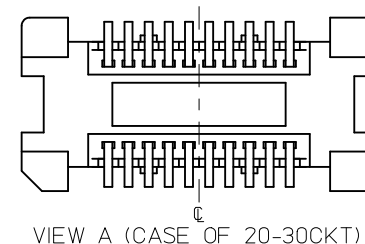
SlimStack™ Receptacle [52991](#) , [54167](#)

This document was generated on 05/26/2010

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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:

- 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)
- 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.
- 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.
- (全極数/2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT/2) = EVEN.
- 嵌合相手: 52991 シリーズ 54167 シリーズ
MATE WITH: 52991 SERIES, 54167 SERIES.
- テール平坦度は、0.1 MAX.
TAIL COPLANARITY TO BE 0.1 MAX.
- 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	EMBOSSD TAPE ORDER No.	MATERIAL NO.	極数 CIRCUIT

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

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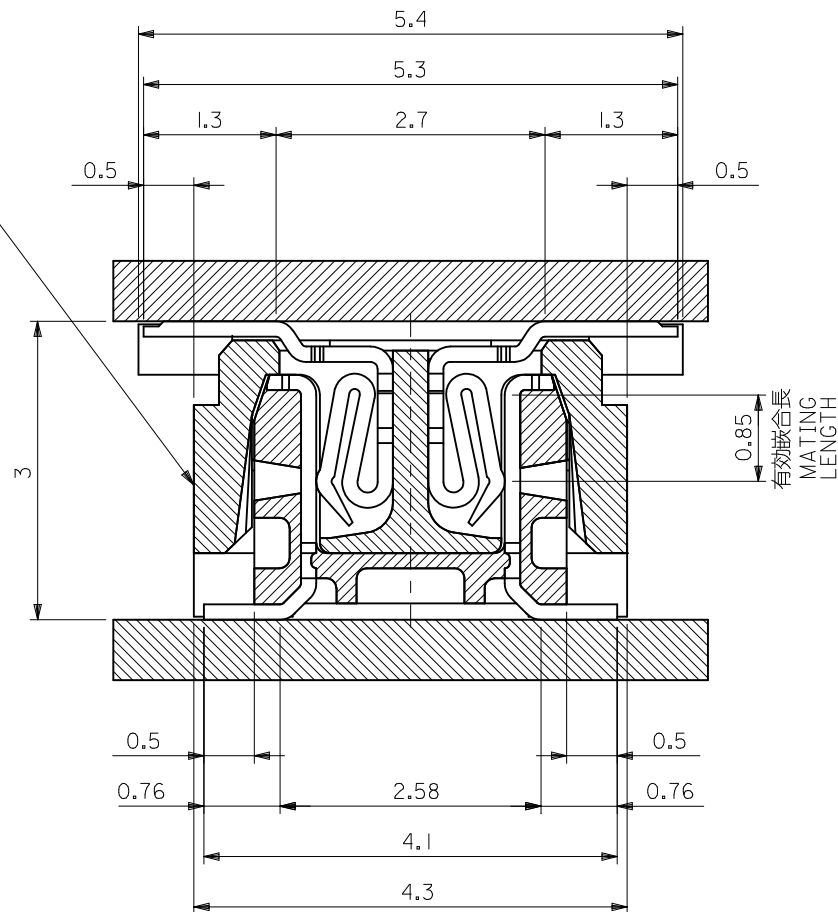
D

C

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: KITOYODA CHKD: S. MARUYAMA APPR: M. SASAO	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
				MM ONLY		8:1	METRIC				
		10 UNDER	± ---	DRAWN BY	DATE	TITLE 0.5 B-T0-B CONN PLUG ASSY (W/O BOSS ,W/O NAIL) MOLEX INCORPORATED					
		10 OVER 30 UNDER	± ---	CHECKED BY	DATE						
		30 OVER	± ---	APPROVED BY	DATE						
		ANGULAR ± --- °		MATERIAL NO.		DOCUMENT NO.					SHEET NO.
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-53748-002					2 OF 2		
D	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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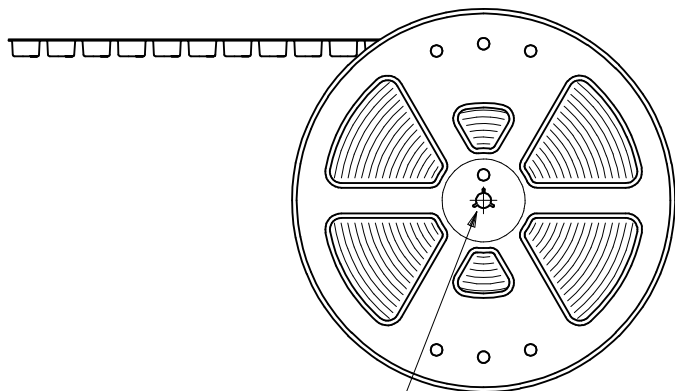
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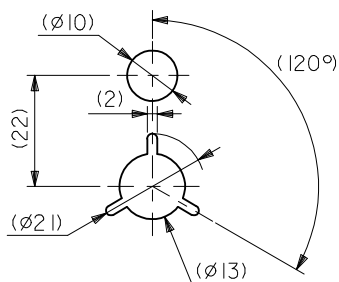
NOTES

- 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

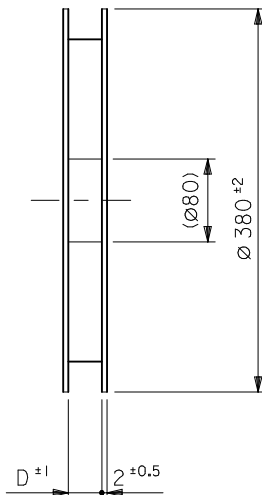


"F"

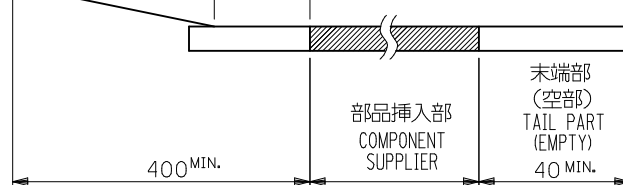


DETAIL "F"

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)

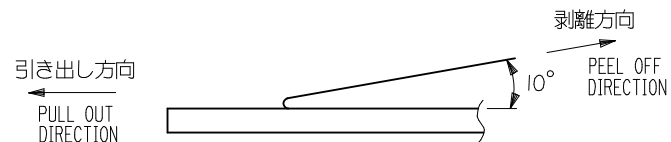


部品挿入部
COMPONENT
SUPPLIER

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 DFW/N/NAKAMURA 2008/12/08 CHK'D: T. HARUYAMA 2008/12/08 APPR: NUKITA 2009/01/09	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.
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-53748-005		1 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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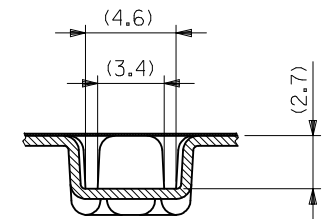
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EN-02JA(021)



REVISED	EC NO: J2009-0487	DRWN:NAKAMURA	2008/12/08	CHKD:T. HARUYAMA	2008/12/08	APPR:NUKITA	2009/01/09	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE		
										MM ONLY		---	METRIC	 PROJECTION		
								10 UNDER		± ---	DRAWN BY	DATE	TITLE 0.5 BTB CONN PLUG(W/O BOSS W/O NAIL)EMBSTP PKG			
								10 OVER 30 UNDER		± ---	T.NIITSU	'95/10/17				
								30 OVER		± ---	CHECKED BY	DATE	MOLEX INCORPORATED			
										± --- °	T. ITO	'01/1/23				
								ANGULAR		± --- °	APPROVED BY	DATE	DOCUMENT NO.			
										± --- °	M.FUKUSHIMA	'01/1/23				
DRAFT WHERE APPLICABLE		MATERIAL NO.		SEE TABLE				SD-53748-005		SHEET NO.						
MUST REMAIN				SIZE				2 OF 5								
WITHIN DIMENSIONS		A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												

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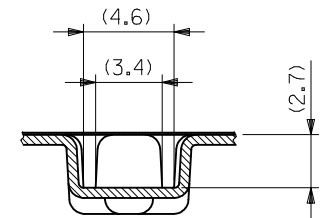
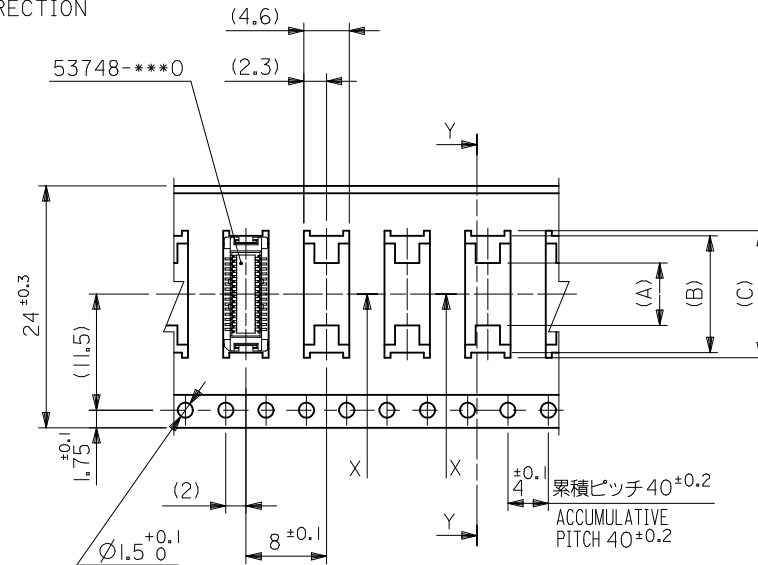
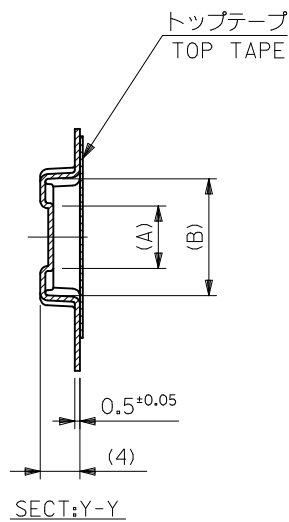
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引き出し方向
PULL OUT DIRECTION



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					
	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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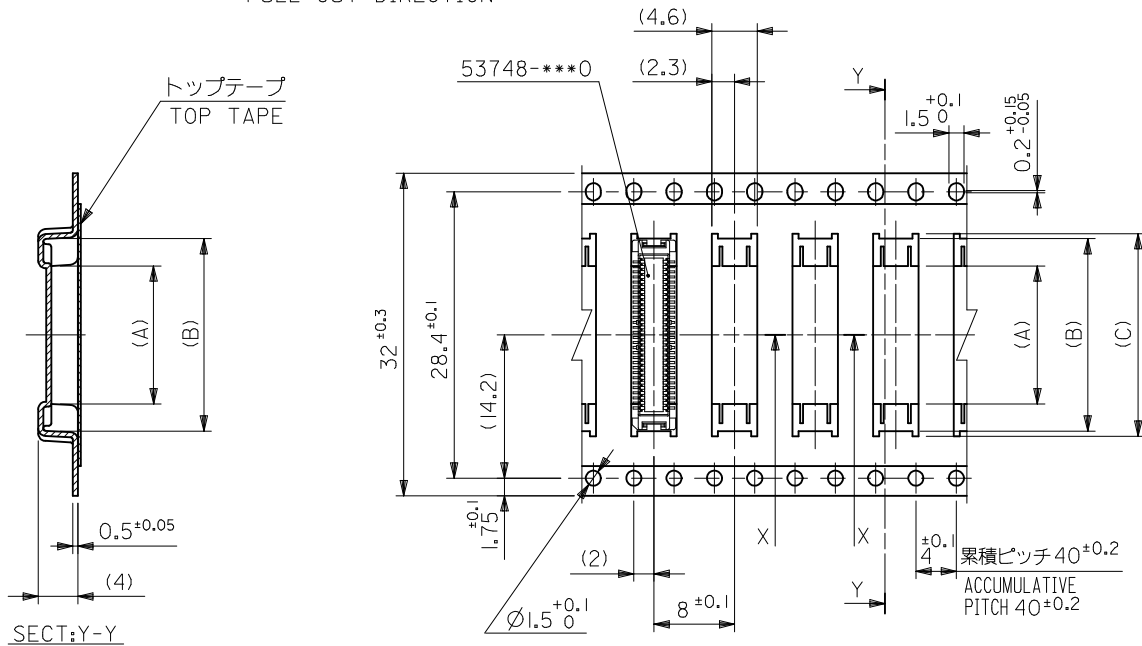
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引き出し方向
PULL OUT DIRECTION



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

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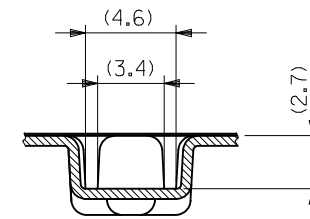
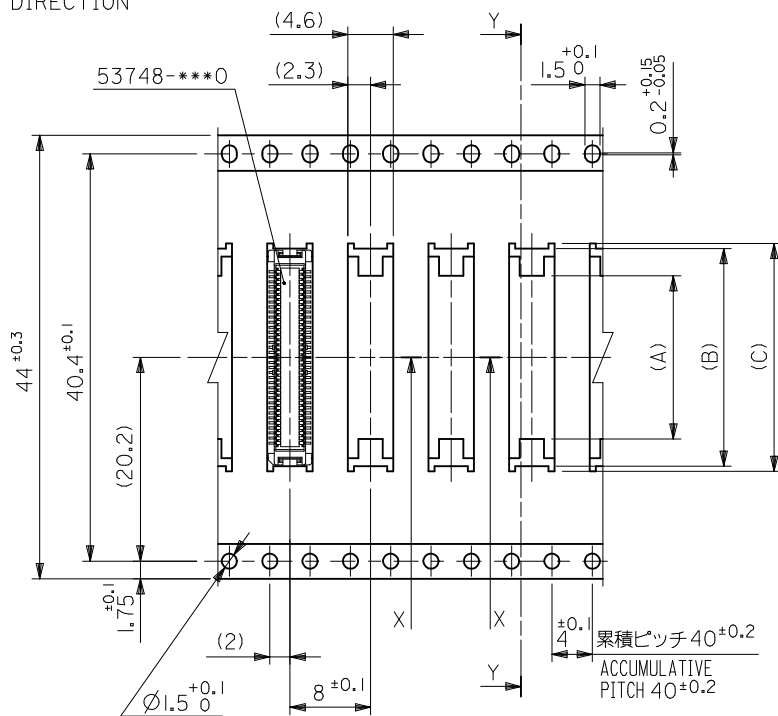
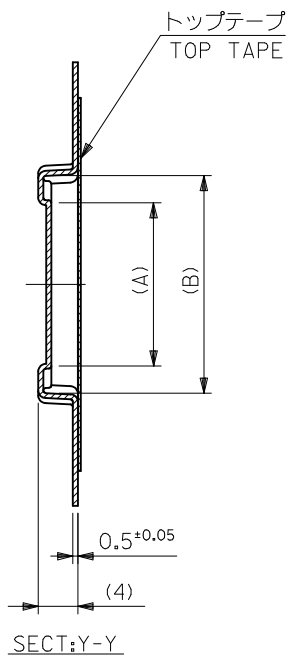
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10 9 8 7 6 5 4 3 2 1

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	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 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	± ---	T. YASUI	DATE '96/4/16	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			5 OF 5	
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								