

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0559090774](#)
Status: **Active**
Overview: [slimstack_mm016_pitch](#)
Description: 0.40mm (.016") Pitch Board-to-Board SlimStack™ Plug, Surface Mount, Dual Row, Vertical Stacking, 1.50mm (.059") Stacking Height, Lead-free, 70 Circuits

Documents:

[3D Model](#) [Product Specification PS-51338-002 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

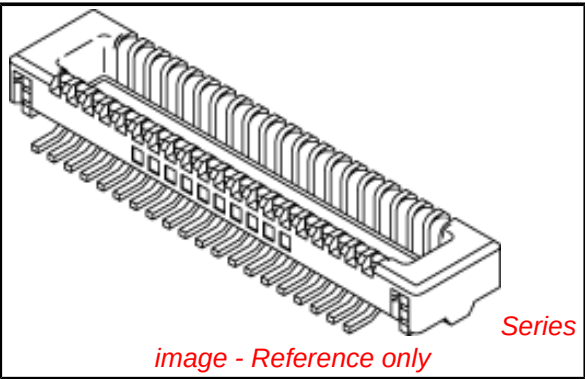
Product Family	PCB Headers
Series	55909
Application	Board-to-Board
Comments	Solder Tab Plating: Tin
Overview	slimstack_mm016_pitch
Product Name	SlimStack™

Physical

Breakaway	No
Circuits (Loaded)	70
Circuits (maximum)	70
Color - Resin	Black
Durability (mating cycles max)	30
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Mated Height (in)	0.059 In
Mated Height (mm)	1.50 mm
Material - Metal	Brass, Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.020 In
PC Tail Length (mm)	0.50 mm
PCB Locator	No
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.016 In
Pitch - Mating Interface (mm)	0.40 mm
Plating min: Mating (µin)	10
Plating min: Mating (µm)	0.25
Plating min: Termination (µin)	4
Plating min: Termination (µm)	0.1
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	0.3A
Voltage - Maximum	50V



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
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
[55909Series](#)

Mates With
[51338](#) Board-to-Board SlimStack™ Receptacle

Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-55909-001
Product Specification	PS-51338-002, RPS-500913-003, RPS-500913-005, RPS-51338-001, RPS-51338-002, RPS-51338-005, RPS-51338-007, RPS-51338-008, RPS-51338-012, RPS-51338-013, RPS-51338-018, RPS-51338-019, RPS-51338-020, RPS-51338-022, RPS-51338-025, RPS-51338-027, RPS-51338-030, RPS-51338-031, RPS-55909-001
Sales Drawing	SD-55909-003, SD-55909-004

This document was generated on 05/27/2010

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10 9 8 7 6 5 4 3 2 1

注記 NOTES:

1. 使用材料 MATERIAL

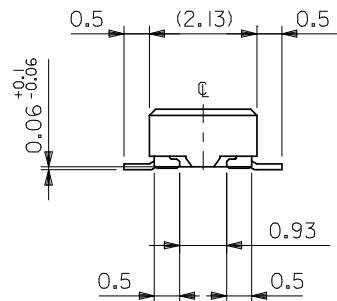
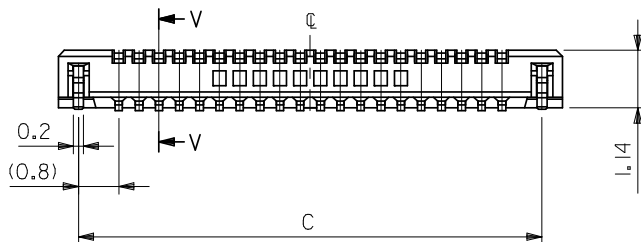
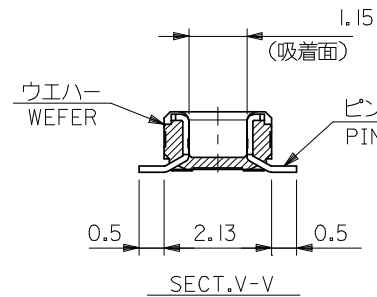
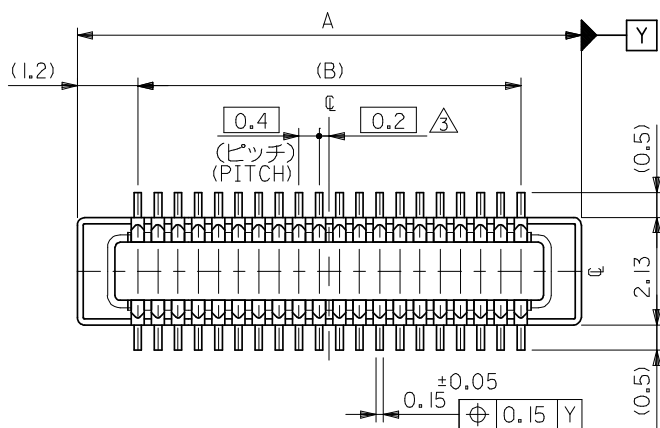
ウエハー: 液晶ポリマー (LCP) ガラス充填 UL94V-0 (黒)
WAFER: LIQUID CRYSTAL POLYMER (GLASS FILLED)
UL94V-0 (COLOR: BLACK)
ピン: 黄銅 ($t=0.12$)
PIN: BRASS ($t=0.12$)
金具: リン青銅 ($t=0.2$)
FITTING NAIL: PHOSPHOR BRONZE ($t=0.2$)

2. メッキ仕様 PLATING

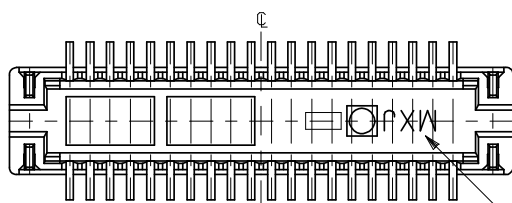
ピン PIN
金メッキ 0.2 マイクロメートル以上 (コンタクト部)
GOLD 0.2MICROMETER MINIMUM (CONTACT AREA)
金メッキ 0.4 マイクロメートル以下 (テール部)
GOLD 0.4MICROMETER MAXIMUM (TAIL AREA)
下地メッキ: ニッケルメッキ 1.5 マイクロメートル以上
UNDER PLATING: NICKEL 1.5MICROMETER MINIMUM
金具 FITTING NAIL
錫メッキ 1.0 マイクロメートル以上
TIN PLATING 1.0MICROMETER MINIMUM
下地メッキ: ニッケルメッキ 1.0 マイクロメートル以上
UNDER PLATING: NICKEL 1.0MICROMETER MINIMUM

③ (全極数/2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT/2) = EVEN.

4. 嵌合相手: 51338シリーズ
MATE WITH: 51338 SERIES.
5. テール平坦度は、0.08以下
TAIL COPLANARITY TO BE 0.08 MAXIMUM
テール及び金具の平坦度は、0.1以下
TAIL AND FITTING NAIL COPLANARITY TO BE 0.1 MAXIMUM
6. 本製品は 55909-***3 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 55909-***3

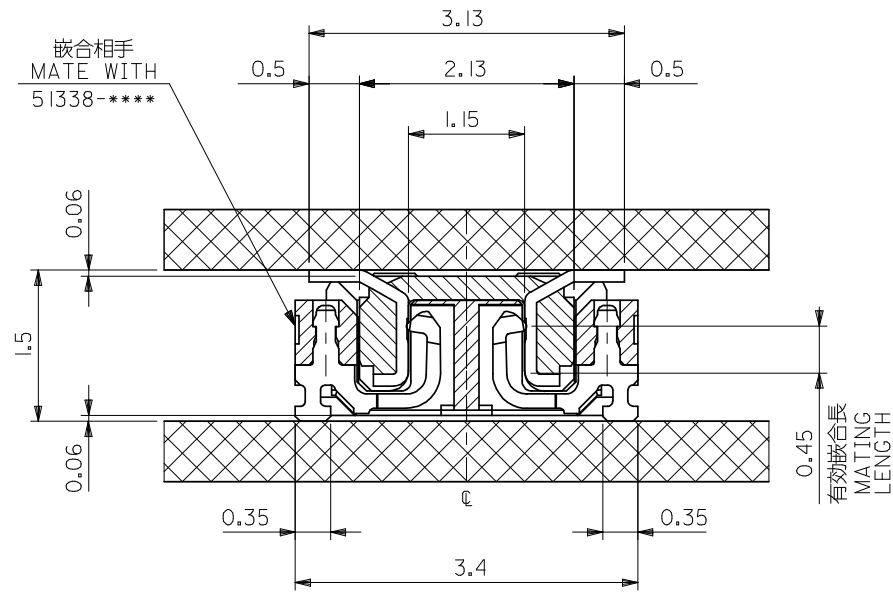


25.2	23.6	26.0	55909-1274	55909-1273	120
21.2	19.6	22.0	55909-1074	55909-1073	100
19.2	17.6	20.0	55909-0974	55909-0973	90
17.2	15.6	18.0	55909-0874	55909-0873	80
15.2	13.6	16.0	55909-0774	55909-0773	70
13.2	11.6	14.0	55909-0674	55909-0673	60
11.2	9.6	12.0	55909-0574	55909-0573	50
9.2	7.6	10.0	55909-0474	55909-0473	40
8.0	6.4	8.8	55909-3474	55909-3473	34
7.2	5.6	8.0	55909-0374	55909-0373	30
6.4	4.8	7.2	55909-2674	55909-2673	26
6.0	4.4	6.8	55909-2474	55909-2473	24
5.6	4.0	6.4	55909-2274	55909-2273	22
5.2	3.6	6.0	55909-0274	55909-0273	20
3.6	2.0	4.4	55909-9974	55909-9973	12
C	B	A	EMBOSSD TAPE PKG. ORDER No. オーダー番号	MATERIAL No.	CKT.

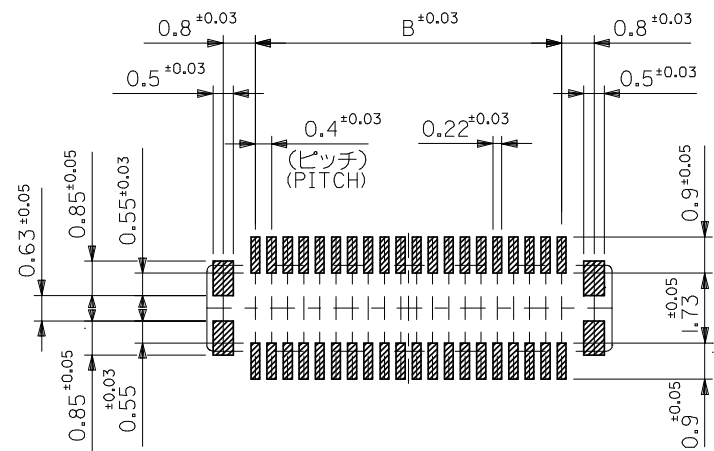


トレードマーク
TRADE MARK

REVISED EC NO: J2009-0301 2008/08/27 DRAWN:MABEI 2008/08/28 CHKD:THARUYAMA 2008/08/28 APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
		10 UNDER ± 0.2	HSHIMABUKURO 2004/02/20	TITLE 0.4 B-TO-B CONN. PLUG ASSY (HGT=1.5) WITH NAIL -LEAD FREE-				
		10 OVER 30 UNDER ± 0.25	CHECKED BY DATE K. TOJO 2004/02/20					
		30 OVER ± 0.3	APPROVED BY DATE M. SASAO 2004/02/20				 MOLEX INCORPORATED	
		ANGULAR ±1/2 °	MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE A3	SEE TABLE SD-55909-003			



嵌合断面図 (参考)
MATED DRAWING (REFERENCE)



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

REVISED	EC NO. J2009-0301 DRWN: MWABEI CHKD: THARUYAMA APPR: NUKITA	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			10 UNDER	±0.2	DRAWN BY HSHIMABUKURO	DATE 2004/02/20	TITLE 0.4 B-TO-B CONN. PLUG ASSY (HGT=1.5) WITH NAIL -LEAD FREE-				
			10 OVER 30 UNDER	±0.25	CHECKED BY K. TOJO	DATE 2004/02/20					
			30 OVER	±0.3	APPROVED BY M. SASAO	DATE 2004/02/20	MOLEX INCORPORATED				
			ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-55909-003		2 OF 2		
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

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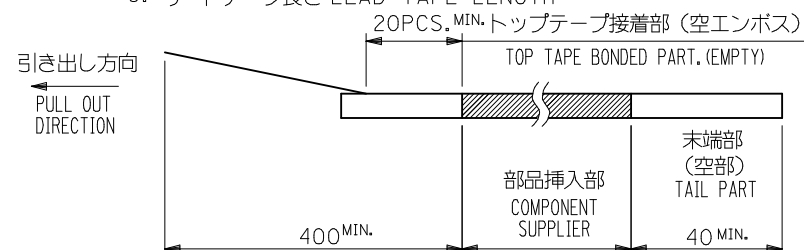
2

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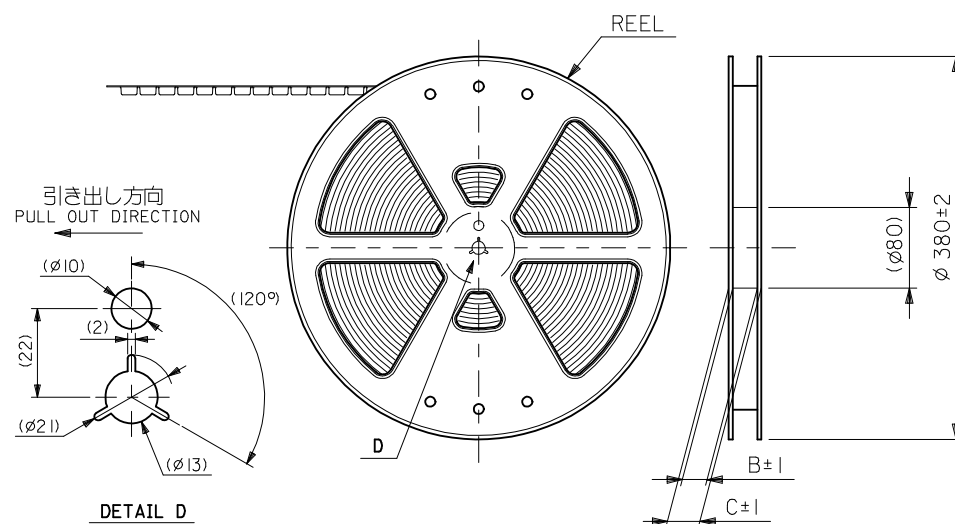
CONFIDENTIAL

NOTES

- 製品詳細寸法については製品単体図面を参照下さい。
RE DETAILED DIMENSION, SEE PRODUCT DRAWING.
- 梱包数量：2500個/リール
NUMBER OF CONNECTORS : 2500PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- 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>
POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>
- ELV 及び RoHS 適合品。
ELV AND RoHS COMPLIANT.



REVISED EC NO: J2010-0487 DRWN:TKAHO 2009/09/18 CHKD:SMRUYAMA 2009/09/18 APPR:MSASAO 2009/09/18	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
		10 UNDER	± 0.2	DRAWN BY H. SHIMAB	DATE 2004/02/20	TITLE 0.4 B-T-O-B CONN PLUG ASSY(HGT=1.5) EMBSTP PKG			
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE 2004/02/20				
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/02/20				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.	SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-55909-004		1 OF 5	
	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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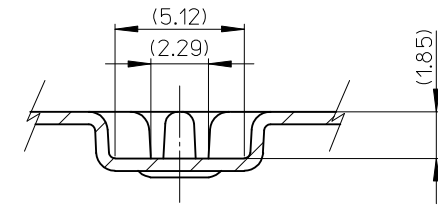
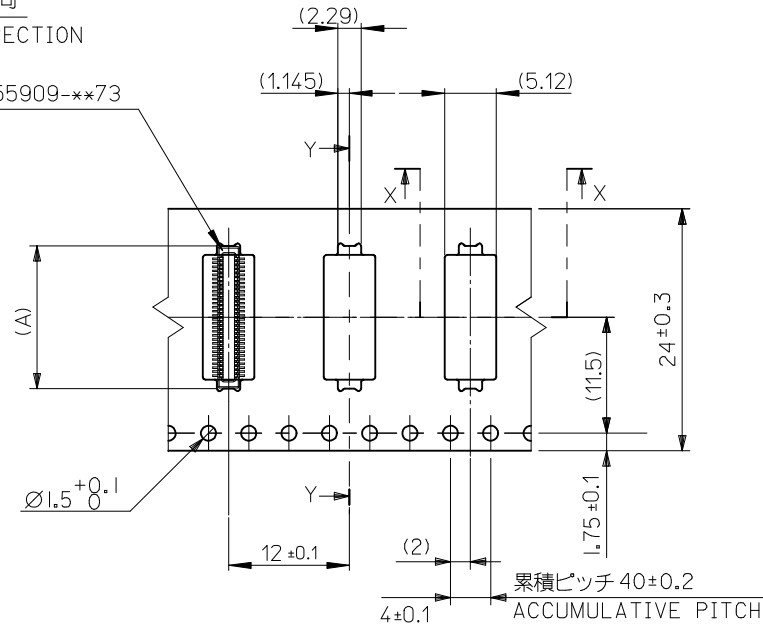
2

引き出し方向
PULL OUT DIRECTIONトップテープ
TOP TAPE

55909-**73

0.5 ± 0.05
(2.6)

SECT. Y-Y

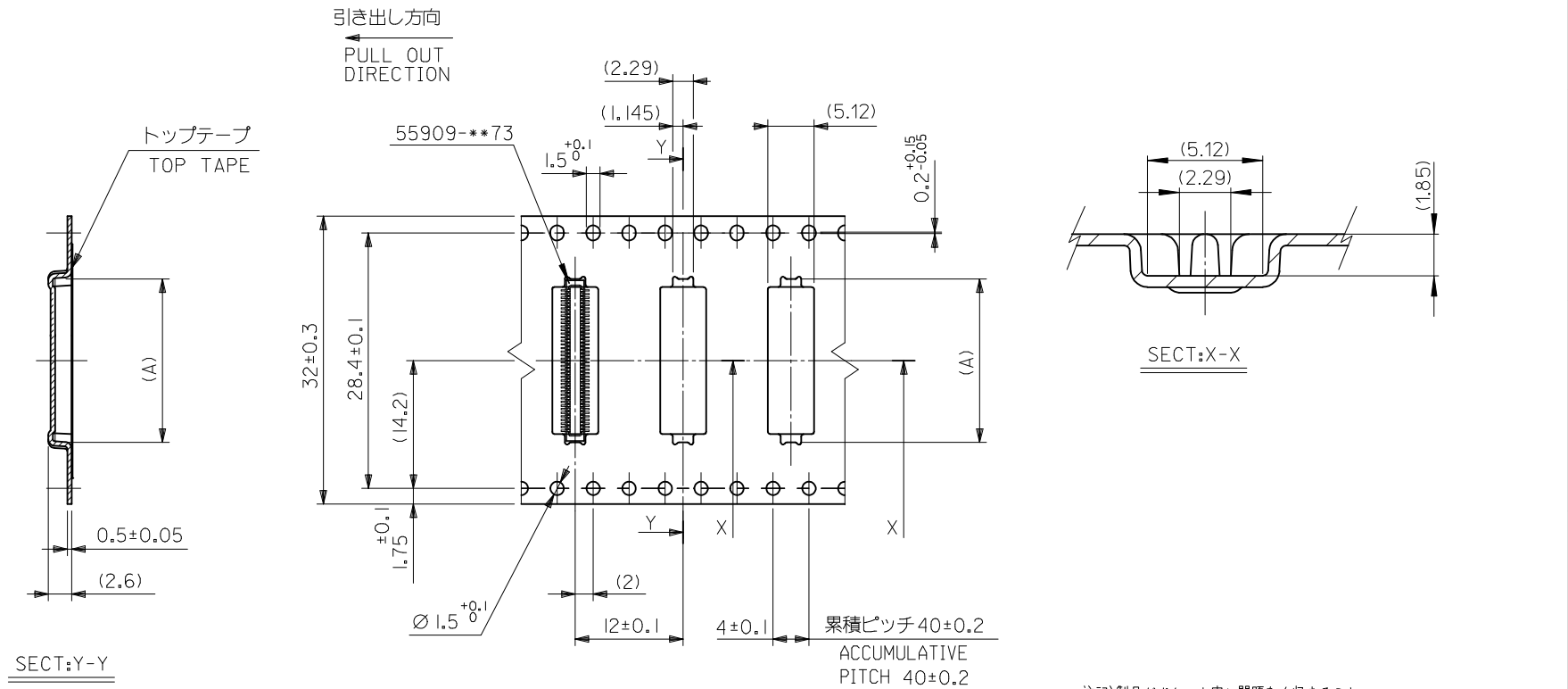


SECT. X-X

注記) 製品がポケット内に問題なく収まること。
NOTE. Pocket should contain product smoothly.

24	29.4	25.4	14.16	55909-0674	60
			12.16	55909-0574	50
			10.16	55909-0474	40
			8.96	55909-3474	34
			8.16	55909-0374	30
			7.36	55909-2674	26
			6.96	55909-2474	24
			6.56	55909-2274	22
キャリアテープ幅 CARRIER TAPE WIDTH	C	B	6.16	55909-0274	20
			(A)	MATERIAL NO.	CKT

REVISED EC NO: J2010-0487 DRWN:TKAHO CHKD:SMRUYAMA APPR:MSASAO	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY H. SHIMAB	DATE 2004/02/20	TITLE 0.4 B-TO-B CONN PLUG ASSY(HGT=1.5) EMBSTP PKG				
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE 2004/02/20					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/02/20					
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-55909-004		2 OF 5			
	REV			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

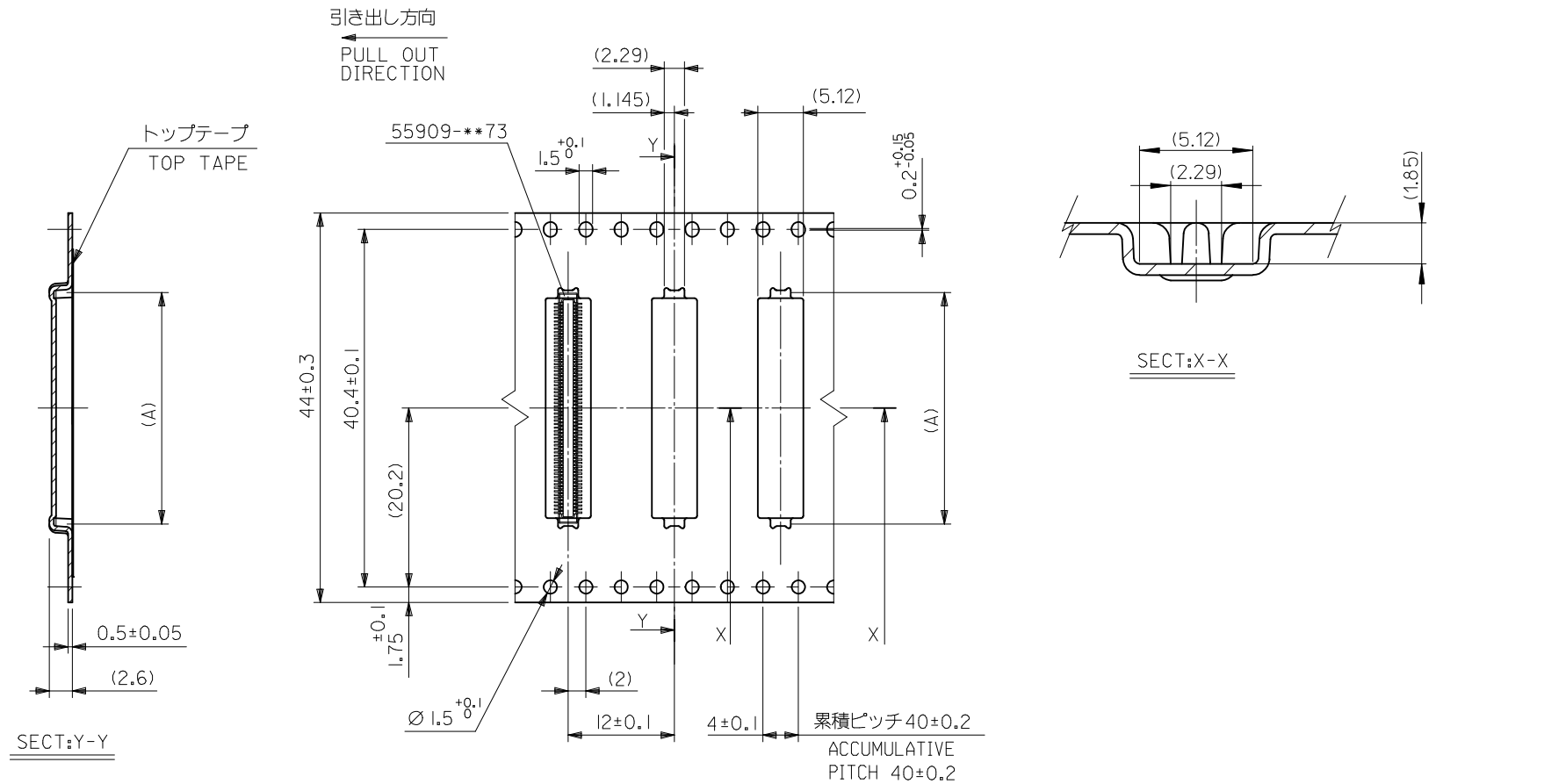


注記) 製品がポケット内に問題なく収まること。
NOTE. Pocket should contain product smoothly.

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

32	37.4	33.4	19.16	55909-0974	90
			18.16	55909-0874	80
			16.16	55909-0774	70
キャリアテープ幅 CARRIER TAPE WIDTH	C	B	(A)	MATERIAL NO.	極数 CKT.

REVISED EC NO: J2010-0487 DRWN:TKA IHO CHKD:SMARUYAMA APPR:MSASAO 2009/09/18 2009/09/18 2009/09/18	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
		10 UNDER	± 0.2	DRAWN BY H. SHIMAB	DATE 2004/02/20	TITLE 0.4 B-TO-B CONN PLUG ASSY(HGT=1.5) EMBSTP PKG			
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE 2004/02/20				
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/02/20				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-55909-004		3 OF 5		
	REV			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



注記) 製品がポケット内に問題なく収まること。

NOTE. Pocket should contain product smoothly.

44mm幅キャリアテープ
44mm WIDTH CARRIER TAPE

44	49.4	45.4	22.16	55909-1074	100
キャリアテープ幅 CARRIER TAPE WIDTH	C	B	(A)	MATERIAL NO.	極数 CKT.

55909-***74 MODEL NO.

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

0.4 B-T-O-B CONN PLUG
ASSY(HGT=1.5) EMBSTP PKG

MOLEX INCORPORATED

DOCUMENT NO.

SD-55909-004

SHEET NO.

4 OF 5

DIMENSION STYLE

MM ONLY

SCALE

DRAWN BY H. SHIMAB

DATE 2004/02/20

CHECKED BY K. TOJO

DATE 2004/02/20

APPROVED BY M. SASAO

DATE 2004/02/20

MATERIAL NO.

SEE CHART

SIZE

A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
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REVISED	DESCRIPTION
EC NO: J2010-0487	2009/09/18
DRWN:TKAHO	2009/09/18
CHKD:SMURUYAMA	2009/09/18
APPR:MSASAO	2009/09/18
REV	
1	

GENERAL TOLERANCES
(UNLESS SPECIFIED)

10 UNDER ±0.2

10 OVER 30 UNDER ±0.25

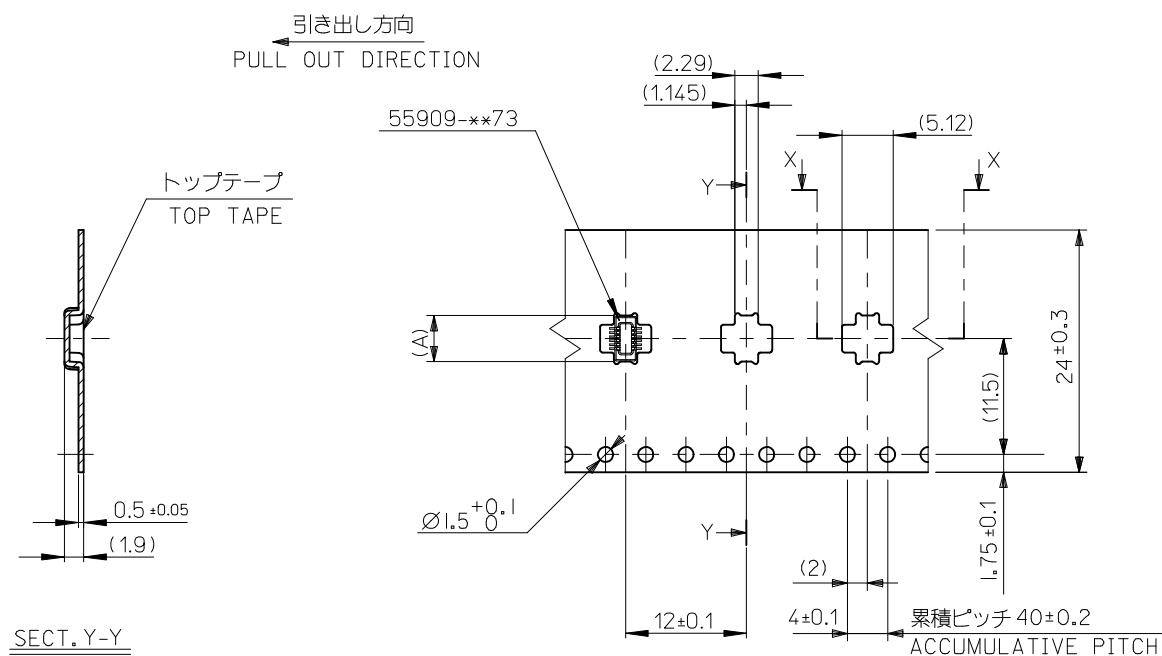
30 OVER ±0.3

ANGULAR ±3 °

DRAFT WHERE APPLICABLE

MUST REMAIN

WITHIN DIMENSIONS



注記) 製品がポケット内に問題なく収まること。
NOTE. Pocket should contain product smoothly.

24	29.4	25.4	4.56	55909-9974	12
キャリアテープ幅 CARRIER TAPE WIDTH	C	B	(A)	MATERIAL NO.	CKT

REVISED EC NO: J2010-0487 DRWN:TKA IHO 2009/09/18 CHKD:SMARUYAMA 2009/09/18 APPR:MSASAO 2009/09/18	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
		10 UNDER	± 0.2	DRAWN BY H. SHIMAB	DATE 2004/02/20	TITLE 0.4 B-T-O-B CONN PLUG ASSY(HGT=1.5) EMBSTP PKG		
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE 2004/02/20			
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/02/20			
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.	SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-55909-004		
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						