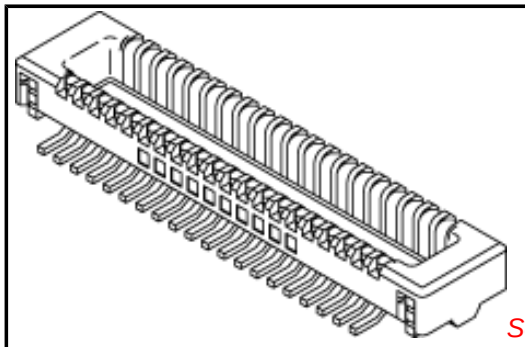
This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0559093474
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, 34 Circuits



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-51338-002 (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)	34
Circuits (maximum)	34
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
Polarized to Mating Part	No
Shrouded	Partial
Stackable	No
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	0.3A

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

Voltage - Maximum	50V

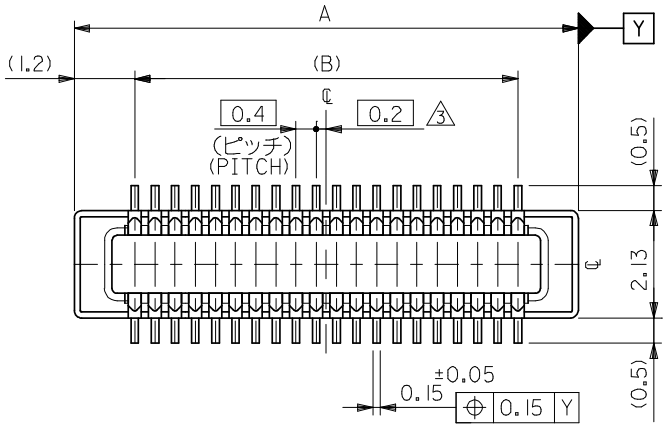
Material Info

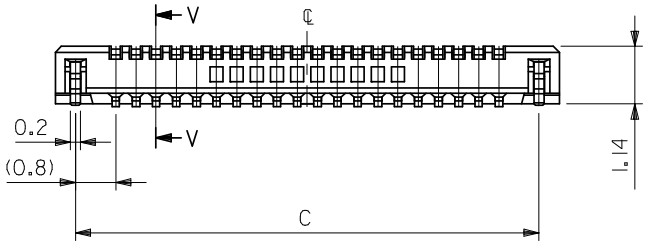
Reference - Drawing Numbers

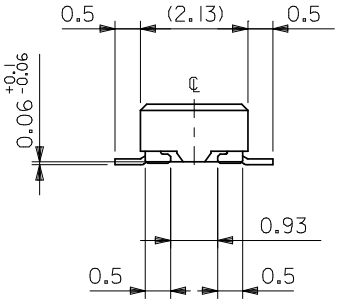
Packaging Specification	SPK-55909-001
Product Specification	PS-51338-002, RPS-500913-005, RPS-51338-018, RPS-51338-019, RPS-51338-020, RPS-51338-022, RPS-51338-024, RPS-51338-025, RPS-51338-027, RPS-51338-030, RPS-51338-031, RPS-55909-001
Sales Drawing	SD-55909-003, SD-55909-004

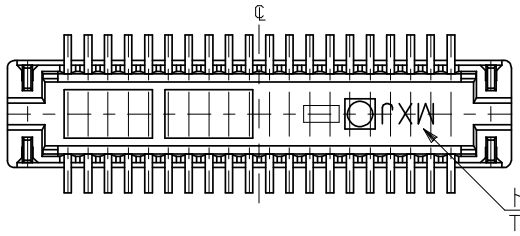
This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION







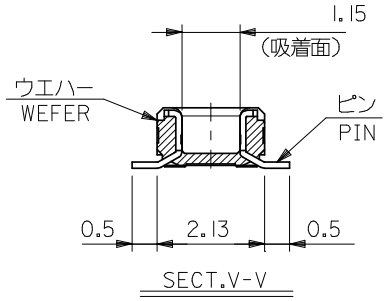


注記 NOTES:

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
   テール及び金具の平坦度は、０．１以下
   TAIL COPLANARITY TO BE 0.08MAXIMUM
   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



SECT.V-V

C	B	A	EMBOSSED TAPE PKG. / ORDER No. オーダー番号	MATERIAL No.	CKT.
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

55909-**73 MODEL NO.

REVISED
EC NO: J2009-0301 2008/08/27
DRWN:MNABEI 2008/08/28
CH'KD:THARUYAMA 2008/08/28
APPR:NUKITA
DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±1/2 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: HSHIMABUKURO DATE: 2004/02/20
CHECKED BY: K.TOJO DATE: 2004/02/20
APPROVED BY: M.SASAO DATE: 2004/02/20

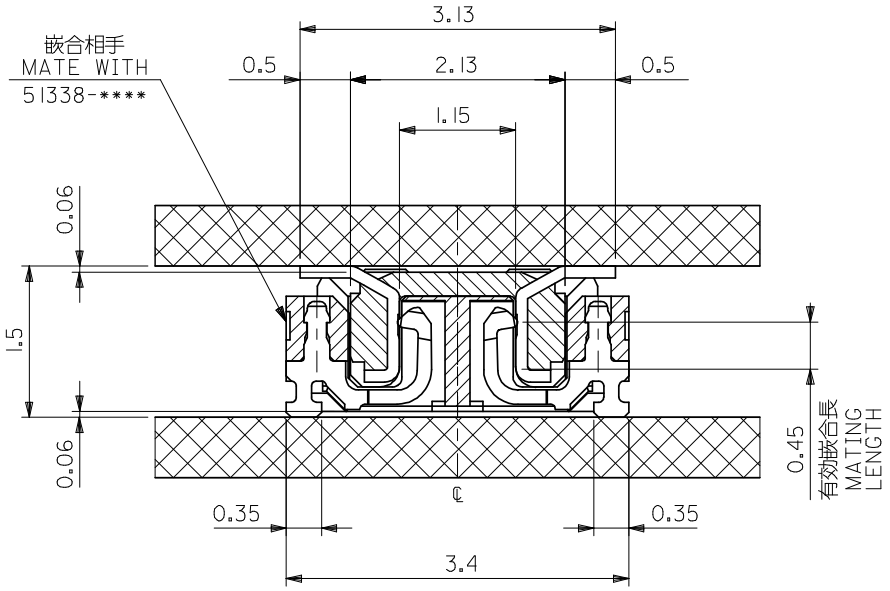
TITLE: 0.4 B-TO-B CONN. PLUG ASSY (HGT=1.5) WITH NAIL -LEAD FREE-

MOLEX INCORPORATED

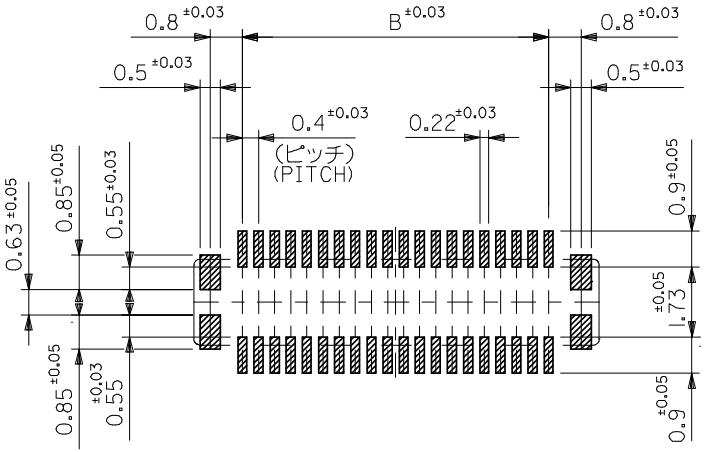
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-55909-003
SHEET NO.: 1 OF 2

SIZE A3

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



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	2008/08/27
	DRWN:MNABEI	2008/08/28
	CH'KD:THARUYAMA	2008/08/28
	APPR:NUKITA	

DESCRIPTION / REV

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: HSHIMABUKURO	DATE: 2004/02/20		
CHECKED BY: K.TOJO	DATE: 2004/02/20		
APPROVED BY: M.SASAO	DATE: 2004/02/20		
MATERIAL NO.: SEE SHEET 1			

55909-**73 | MODEL NO.

TITLE: 0.4 B-TO-B CONN. PLUG ASSY (HGT=1.5) WITH NAIL -LEAD FREE-

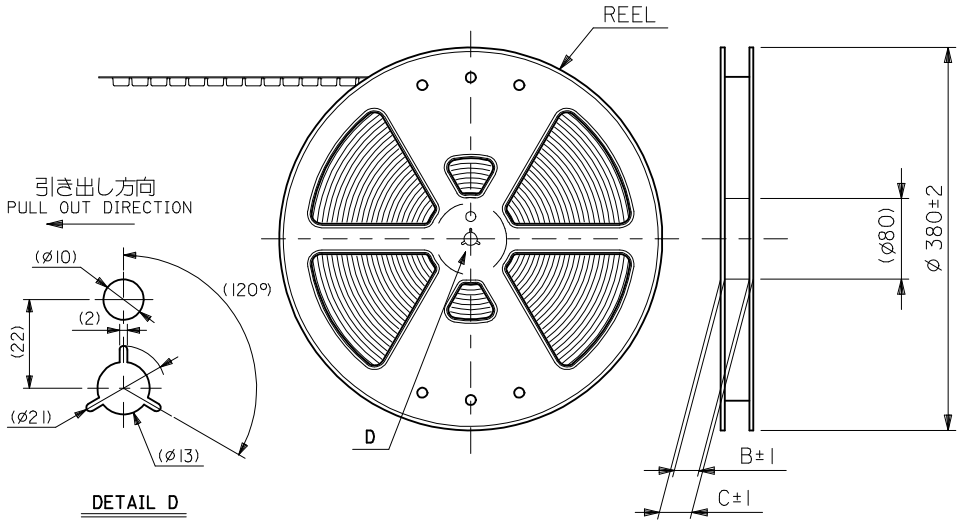
molex MOLEX INCORPORATED

DOCUMENT NO.: SD-55909-003 | 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

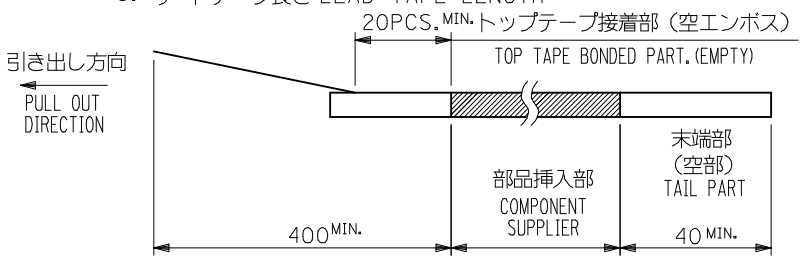
CONFIDENTIAL



DETAIL D

NOTES

1. 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.
2. 梱包数量：２５００個／リール
   NUMBER OF CONNECTORS ：2500PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH



4. 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>
5. ELV 及び RoHS 適合品.
   ELV AND RoHS COMPLIANT.

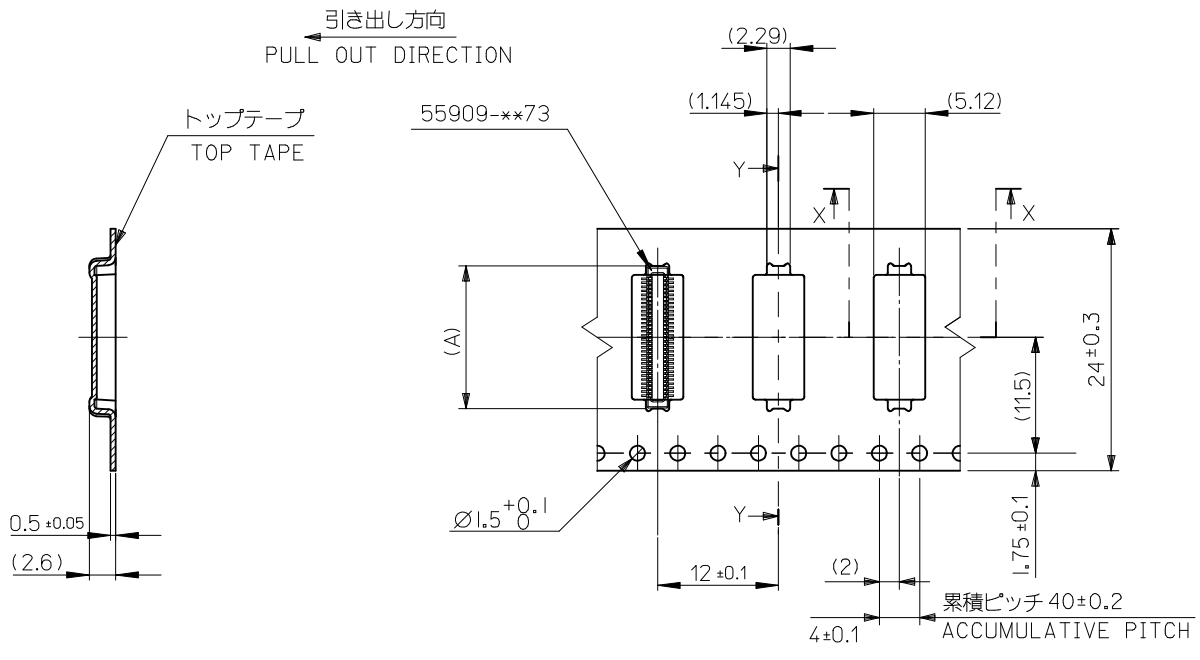
55909-**74	MODEL NO.		
DIMENSION STYLE: MM ONLY	SCALE: ---	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: H.SHIMAB	DATE: 2004/02/20	TITLE: 0.4 B-TO-B CONN PLUG ASSY(HGT=1.5) EMBSTP PKG	
CHECKED BY: K.TOJO	DATE: 2004/02/20		
APPROVED BY: M.SASAO	DATE: 2004/02/20	molex MOLEX INCORPORATED	
MATERIAL NO.: SEE CHART		DOCUMENT NO.: SD-55909-004	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		

REVISED				REV
EC NO: J2010-0487	DRWN:TKAIHO	CH'KD:SMARUYAMA	APPR:MSASAO	DESCRIPTION
2009/09/18	2009/09/18	2009/09/18		

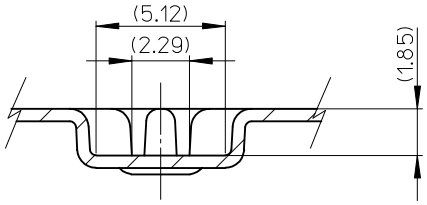
GENERAL TOLERANCES (UNLESS SPECIFIED)	
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR ±3 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CONFIDENTIAL



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.

キャリアテープ幅 CARRIER TAPE WIDTH	C	B	(A)	MATERIAL NO.	CKT
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
			6.16	55909-0274	20

55909-**74 MODEL NO.

REVISED
EC NO: J2010-0487 2009/09/18
DRWN:TKAIHO 2009/09/18
CH'KD:SMARUYAMA 2009/09/18
APPR:MSASAO 2009/09/18
DESCRIPTION
REV —

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: H.SHIMAB DATE: 2004/02/20
CHECKED BY: K.TOJO DATE: 2004/02/20
APPROVED BY: M.SASAO DATE: 2004/02/20

TITLE: 0.4 B-TO-B CONN PLUG ASSY(HGT=1.5) EMBSTP PKG

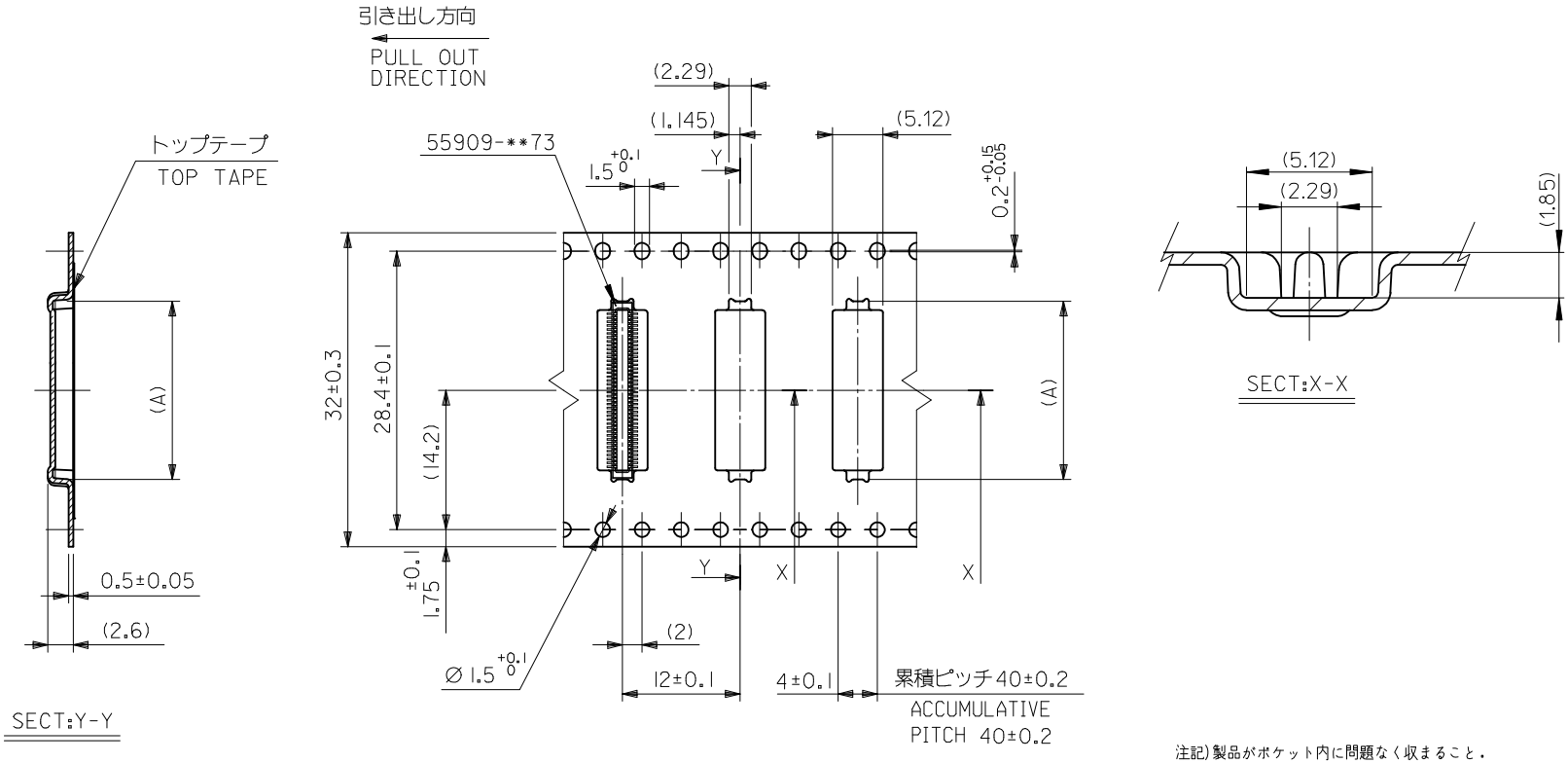
MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-55909-004
SHEET NO.: 2 OF 5

SIZE A3

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

CONFIDENTIAL



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.

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

55909-**74 MODEL NO.

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

REVISED
EC NO: J2010-0487 2009/09/18
DRWN:TKAIHO 2009/09/18
CH'KD:SMARUYAMA 2009/09/18
APPR:MSASAO 2009/09/18
DESCRIPTION
REV —

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: H.SHIMAB DATE: 2004/02/20
CHECKED BY: K.TOJO DATE: 2004/02/20
APPROVED BY: M.SASAO DATE: 2004/02/20

TITLE: 0.4 B-TO-B CONN PLUG ASSY(HGT=1.5) EMBSTP PKG

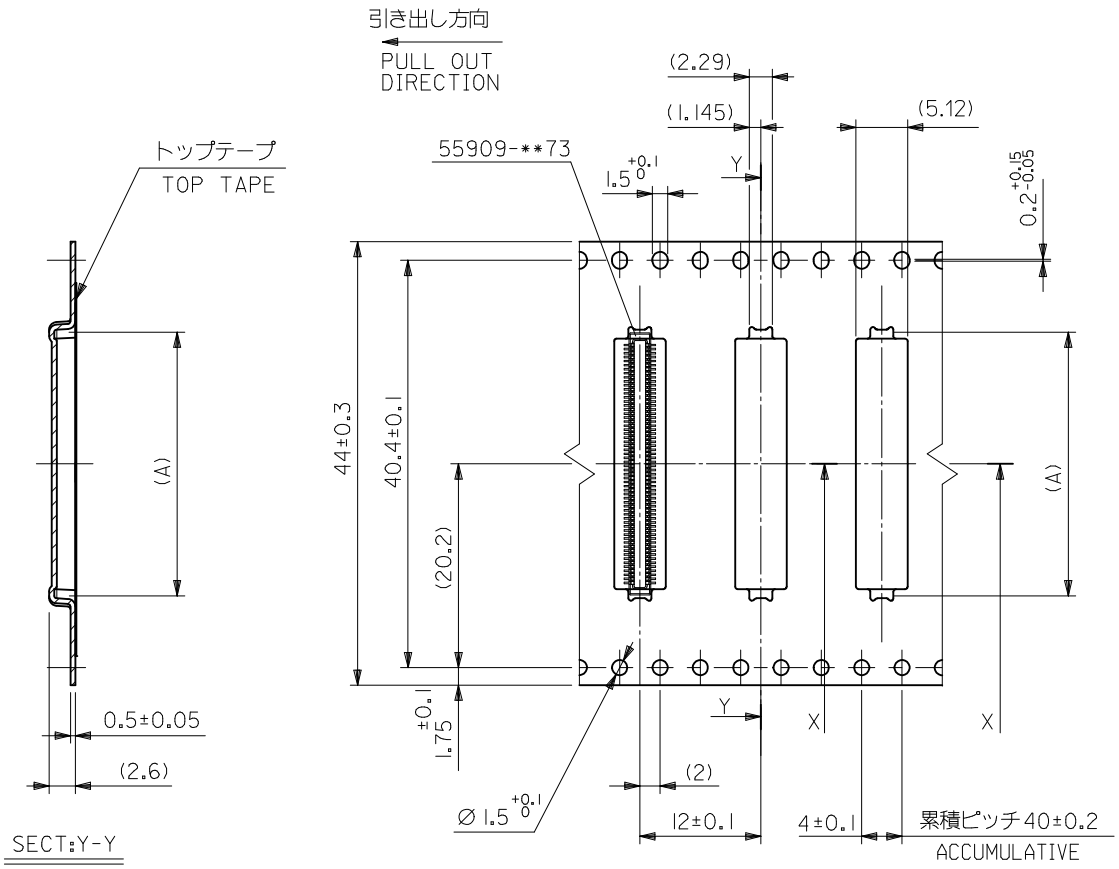
molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-55909-004
SHEET NO.: 3 OF 5

SIZE A3

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

CONFIDENTIAL



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.

REVISED
EC NO: J2010-0487 2009/09/18
DRWN:TKAIHO 2009/09/18
CH'KD:SMARUYAMA 2009/09/18
APPR:MSASAO 2009/09/18
DESCRIPTION
REV —

GENERAL TOLERANCES (UNLESS SPECIFIED)

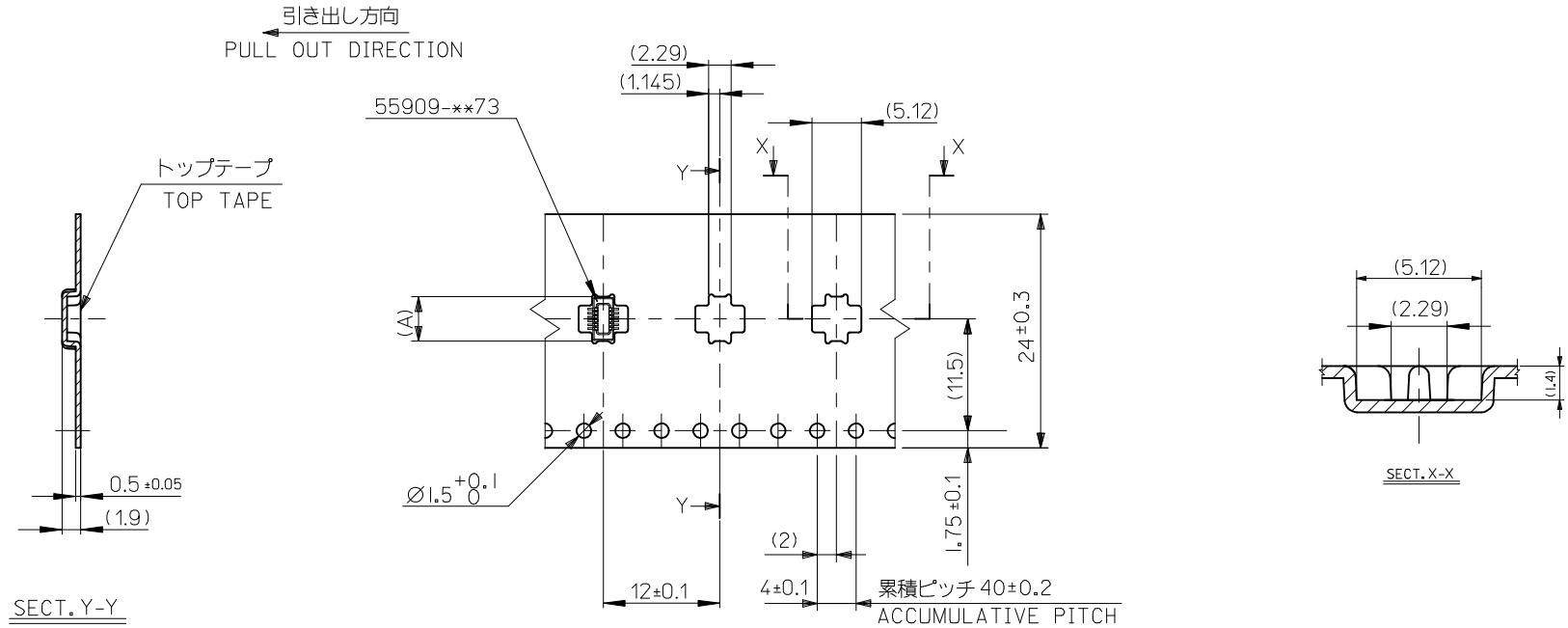
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR ±3 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	---
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	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
TITLE	0.4 B-TO-B CONN PLUG ASSY(HGT=1.5) EMBSTP PKG
	MOLEX INCORPORATED
DOCUMENT NO.	SD-55909-004
SHEET NO.	4 OF 5
SIZE	A3

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

CONFIDENTIAL



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

55909-**74 MODEL NO.

REVISED
EC NO: J2010-0487 2009/09/18
DRWN:TKAIHO 2009/09/18
CH'KD:SMARUYAMA 2009/09/18
APPR:MSASAO 2009/09/18
DESCRIPTION
REV

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: H.SHIMAB DATE: 2004/02/20
CHECKED BY: K.TOJO DATE: 2004/02/20
APPROVED BY: M.SASAO DATE: 2004/02/20

TITLE: 0.4 B-TO-B CONN PLUG ASSY(HGT=1.5) EMBSTP PKG

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-55909-004
SHEET NO.: 5 OF 5

SIZE A3

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