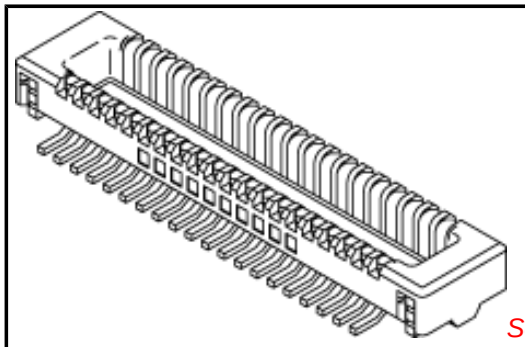
This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0559090874
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, 80 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)	80
Circuits (maximum)	80
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

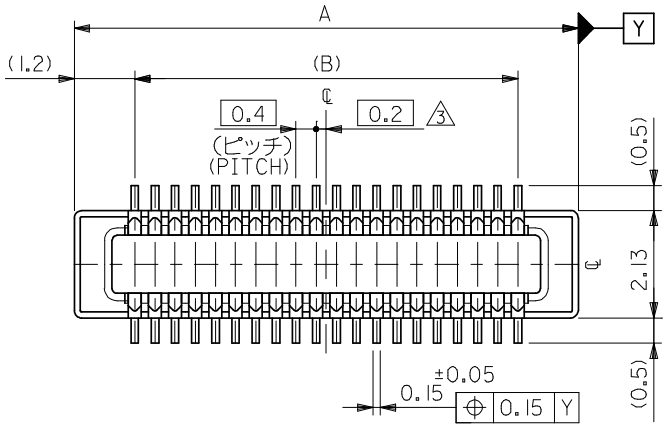
Material Info

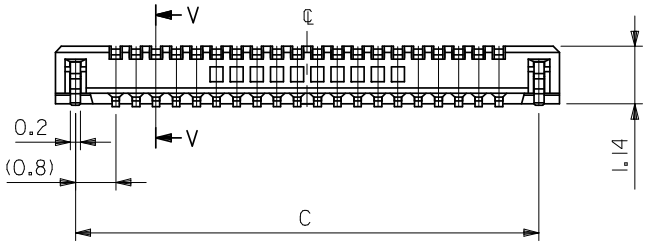
Reference - Drawing Numbers

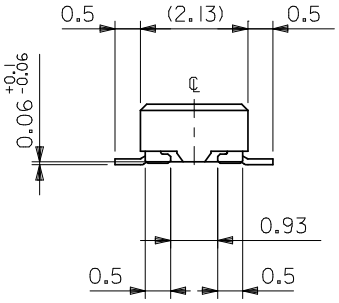
Packaging Specification	SPK-55909-001
Product Specification	PS-51338-002, RPS-500913-003, RPS-500913-005, RPS-51338-001, RPS-51338-002, RPS-51338-005, RPS-51338-007, RPS-51338-008, RPS-51338-011, RPS-51338-012, RPS-51338-013, RPS-51338-018, RPS-51338-019, RPS-51338-020, RPS-51338-022, RPS-51338-024, RPS-51338-025, RPS-51338-027, RPS-51338-030, RPS-51338-031, RPS-55909-001
Sales Drawing	SD-55909-003, SD-55909-004

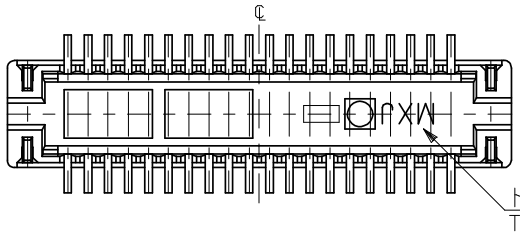
This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION







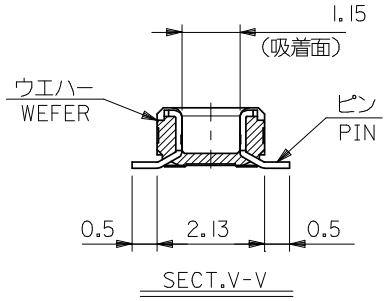


注記 NOTES:

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

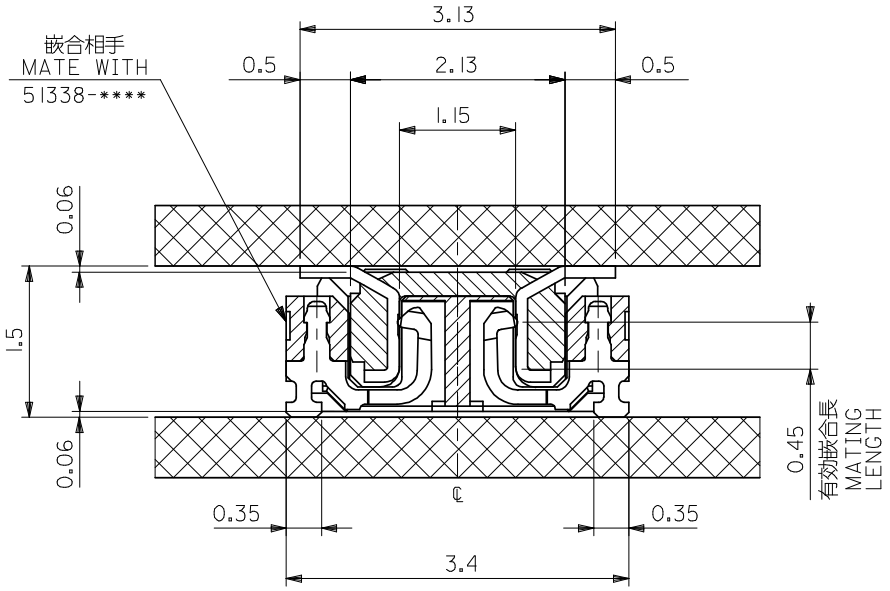
TITLE: 0.4 B-TO-B CONN. PLUG ASSY (HGT=1.5) WITH NAIL -LEAD FREE-

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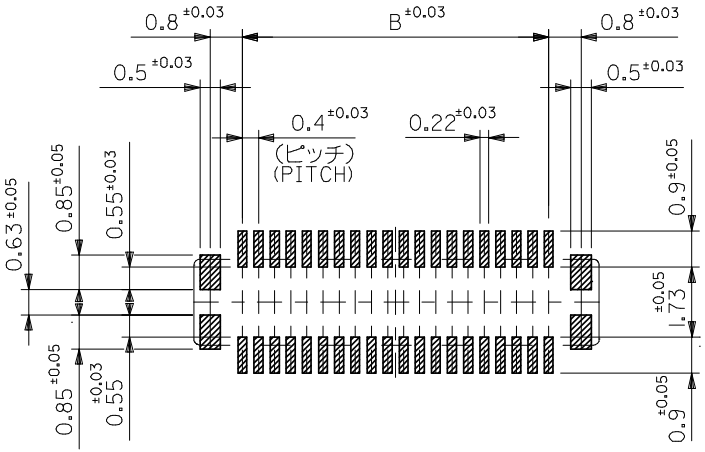
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-55909-003
SHEET NO.: 1 OF 2

SIZE A3

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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-

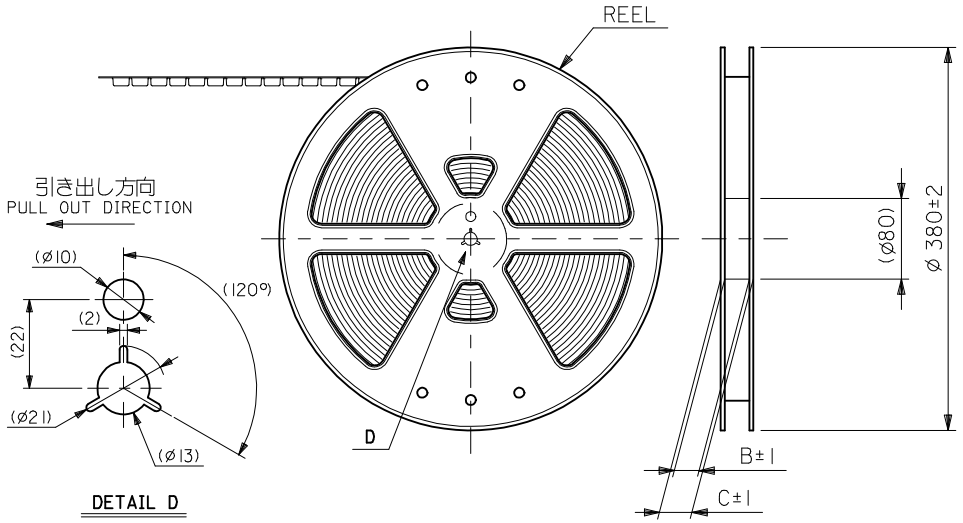
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DOCUMENT NO.: SD-55909-003 | SHEET NO.: 2 OF 2

SIZE: A3

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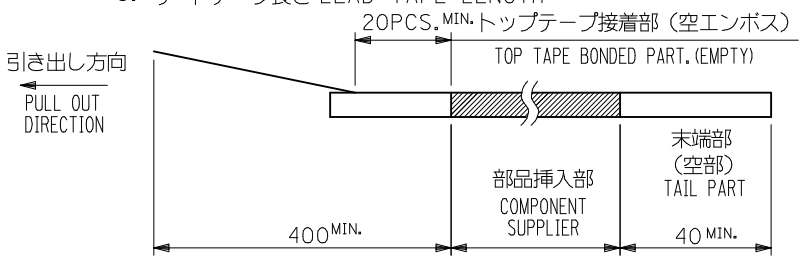
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DETAIL D

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.

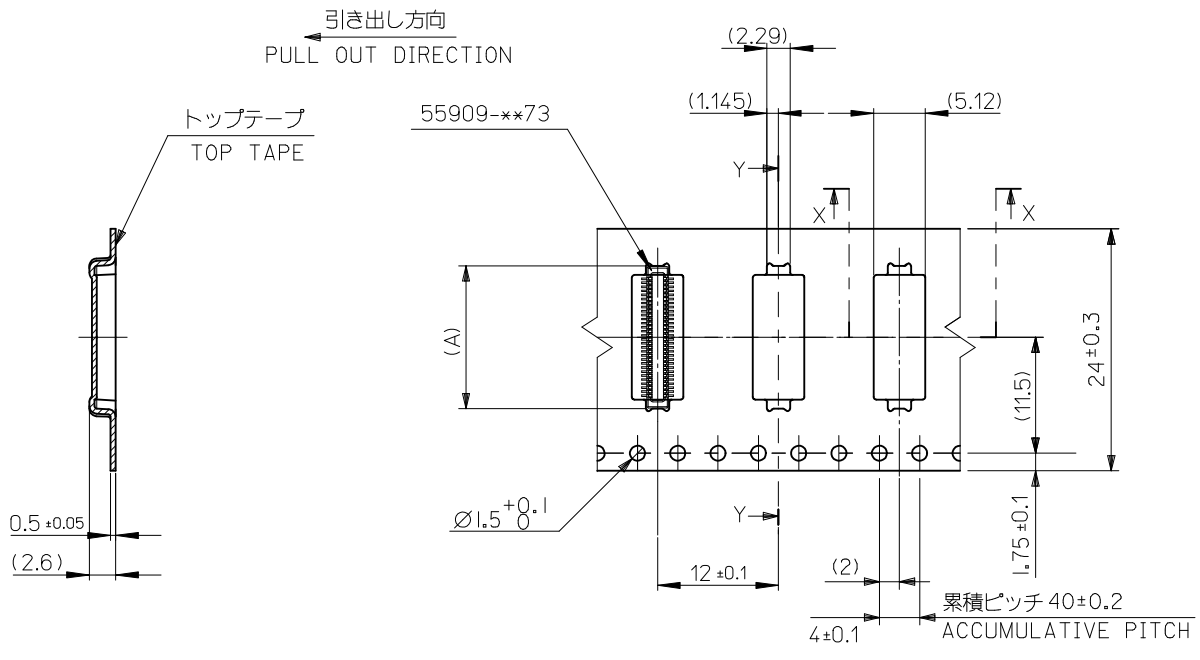
55909-**74	MODEL NO.		
DIMENSION STYLE: MM ONLY	SCALE: ---	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: H.SHIMAB	DATE: 2004/02/20	TITLE: 0.4 B-TO-B CONN PLUG ASSY(HGT=1.5) EMBSTP PKG	
CHECKED BY: K.TOJO	DATE: 2004/02/20		
APPROVED BY: M.SASAO	DATE: 2004/02/20	molex MOLEX INCORPORATED	
MATERIAL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

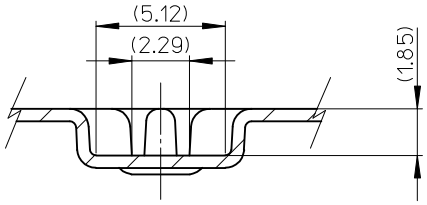
GENERAL TOLERANCES (UNLESS SPECIFIED)	
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR ±3 °	

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

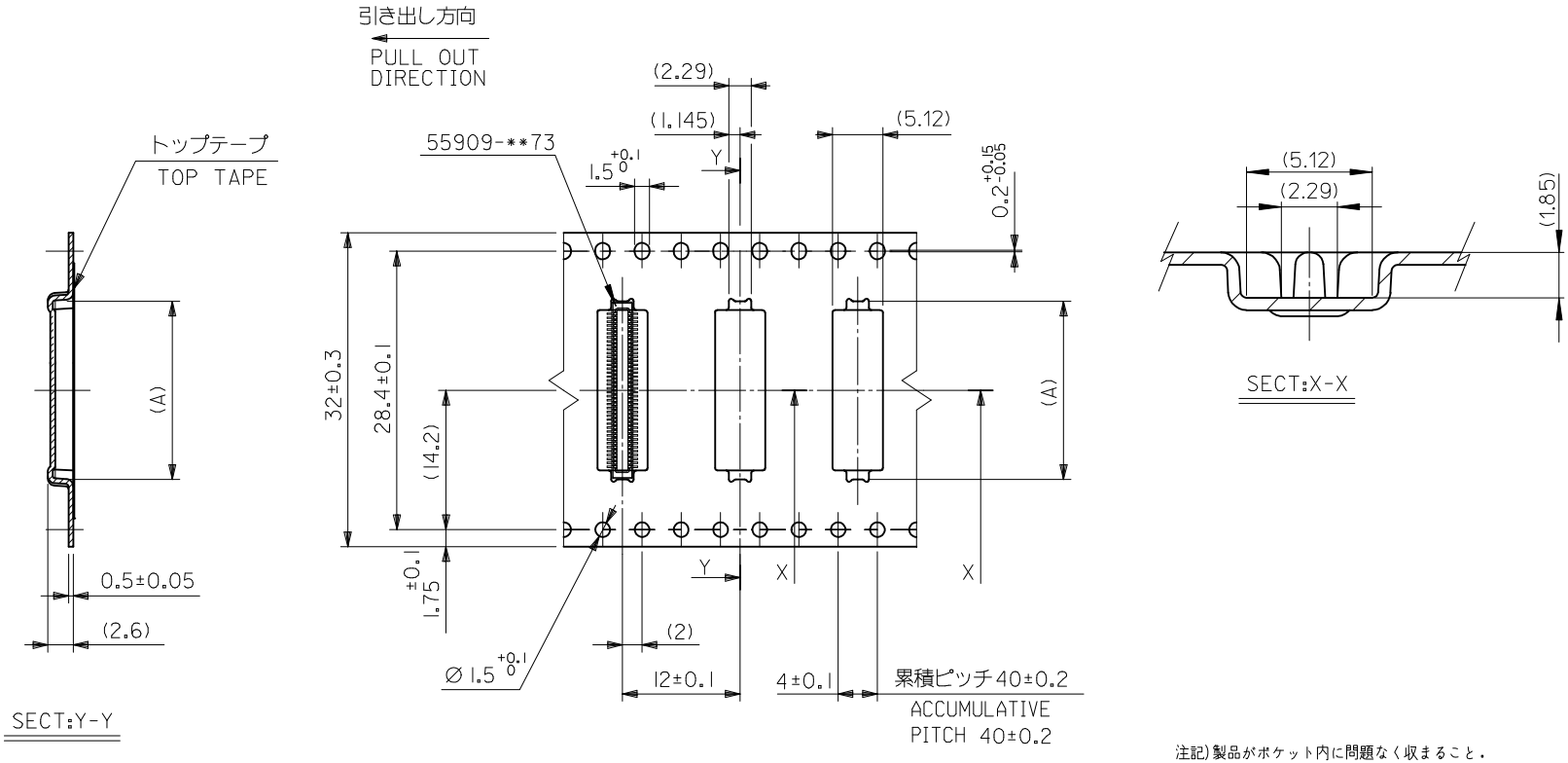
MOLEX INCORPORATED

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

SIZE A3

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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

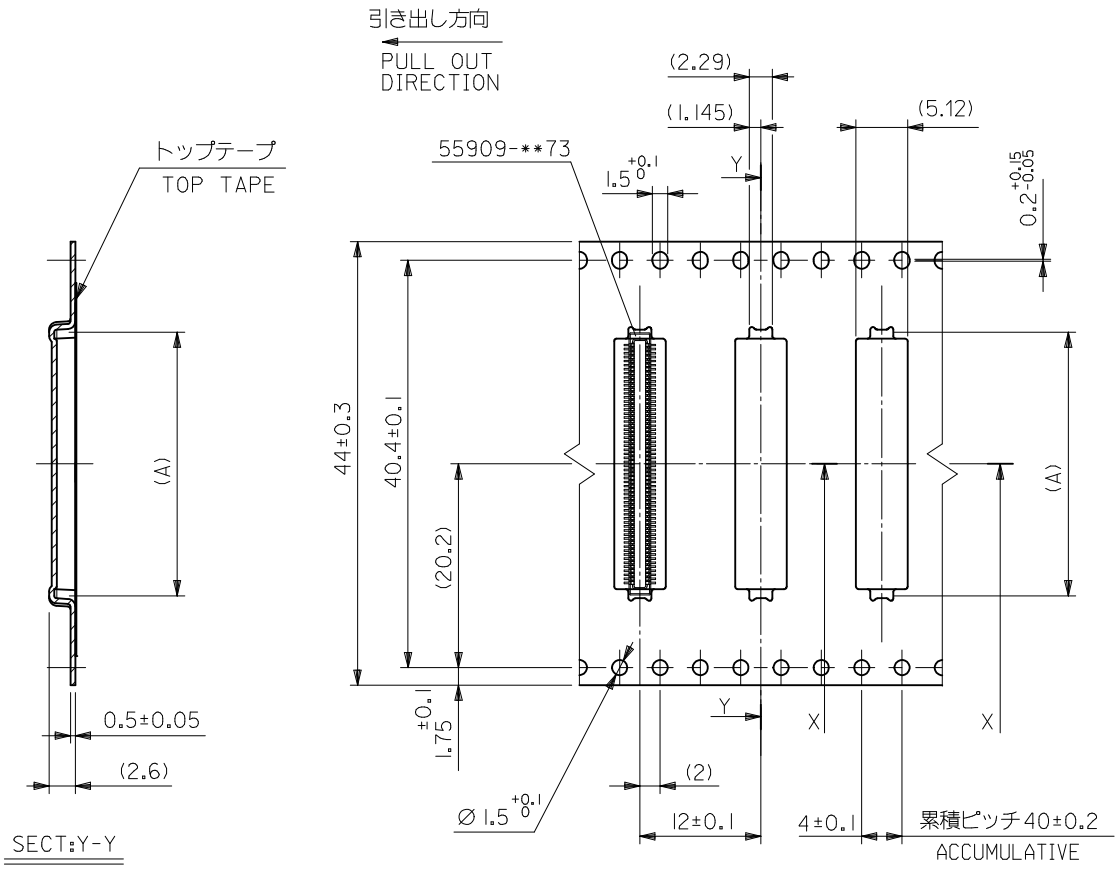
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MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-55909-004
SHEET NO.: 3 OF 5

SIZE A3

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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)

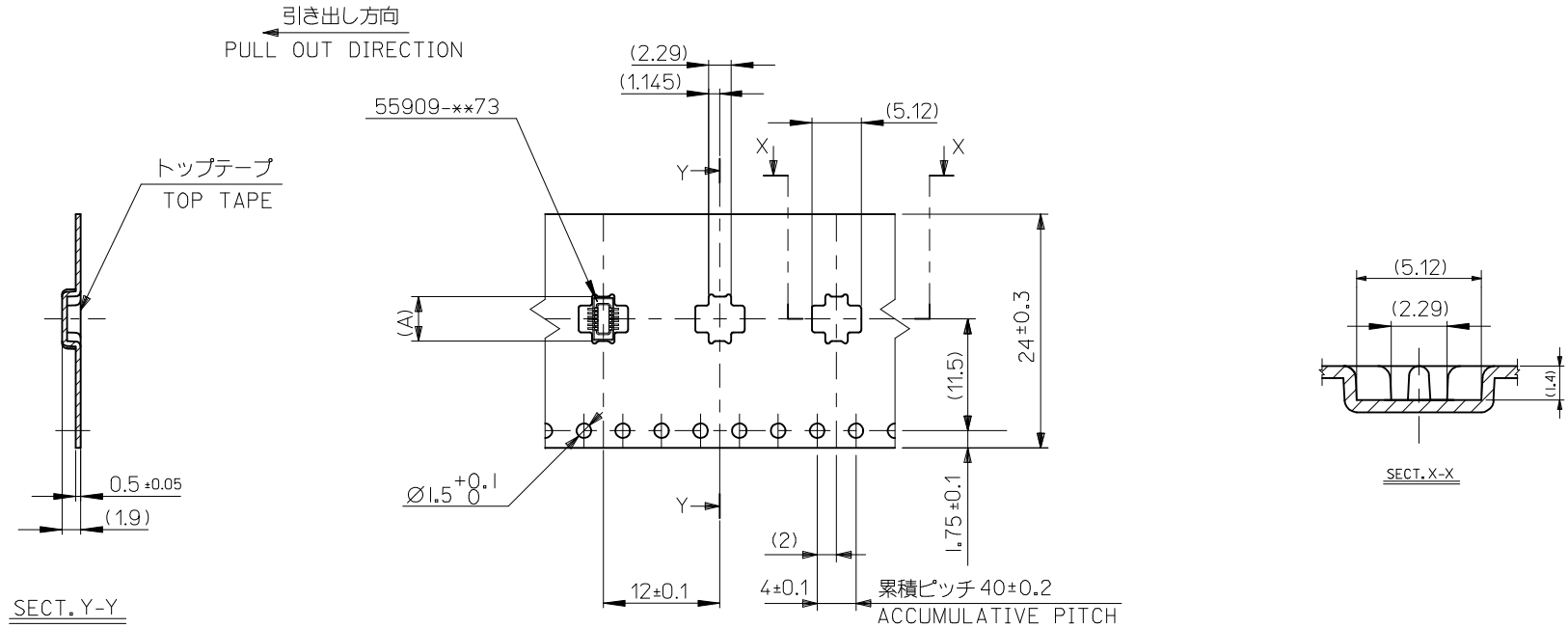
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR ±3 °	

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

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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

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

SIZE A3

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