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Part Number: [0559090474](#)
Status: **Active**
Overview: [slimstack_mm016_pitch](#)
Description: 0.40mm (.016") Pitch Board-to-Board SlimStack™ Plug, Surface Mount, Dual Row, Vertical Stacking, Lead-free, 40 Circuits

Documents:

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

General

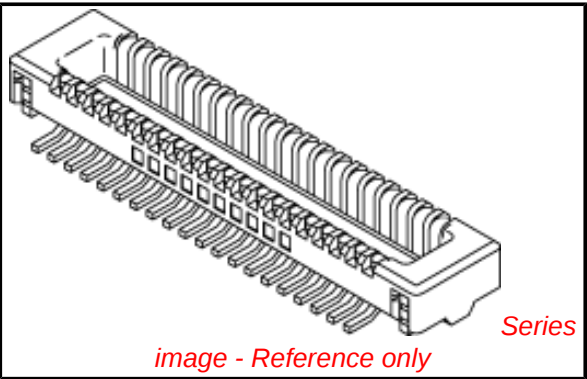
Product Family	PCB Headers
Series	55909
Application	Board-to-Board
Comments	Solder Tab Plating: Tin
Overview	slimstack_mm016_pitch
Product Name	SlimStack™

Physical

Breakaway	No
Circuits (Loaded)	40
Circuits (maximum)	40
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, 0.071 In
Mated Height (mm)	1.50 mm, 1.80 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
Board-to-Board SlimStack™ Receptacle
[51338](#) , [500913](#)

Material Info

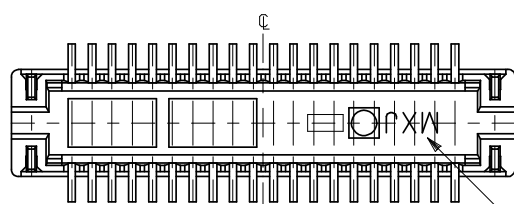
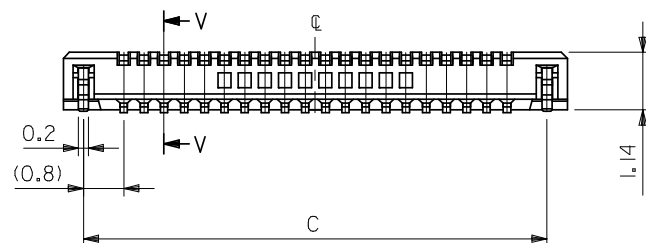
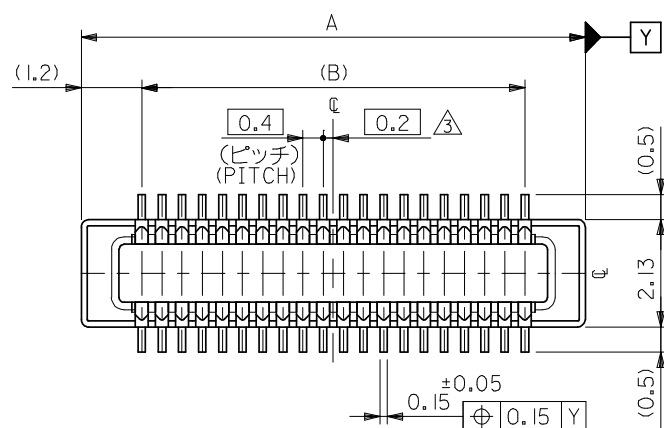
Reference - Drawing Numbers

Packaging Specification
Product Specification

SPK-55909-001
PS-51338-002, RPS-500524-002, RPS-500913-002,
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
SD-55909-003, SD-55909-004

Sales Drawing

This document was generated on 05/27/2010
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TRADE MARK

注記 NOTES:

I. 使用材料 MATERIAL

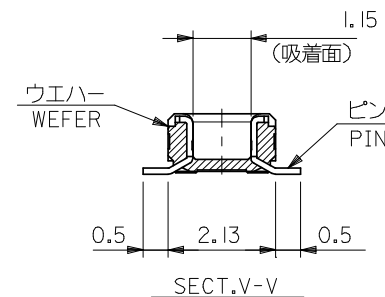
ウエハー: 液晶ポリマー (LCP) ガラス充填 UL94V-0 (黒)
 WAFER: LIQUID CRYSTAL POLYMER (GLASS FILLED)
 UL94V-0 (COLOR: BLACK)
 ピン: 黄銅 (t=0.12)
 PIN: BRASS (t=0.12)
 金具: リン青銅 (t=0.2)
 FITTING NAIL: PHOSPHOR BRONZE (t=0.2)

2. メツキ仕様 PLATING

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

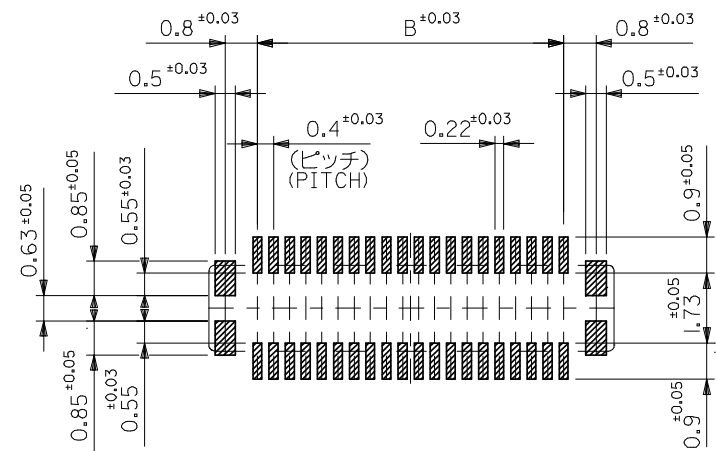
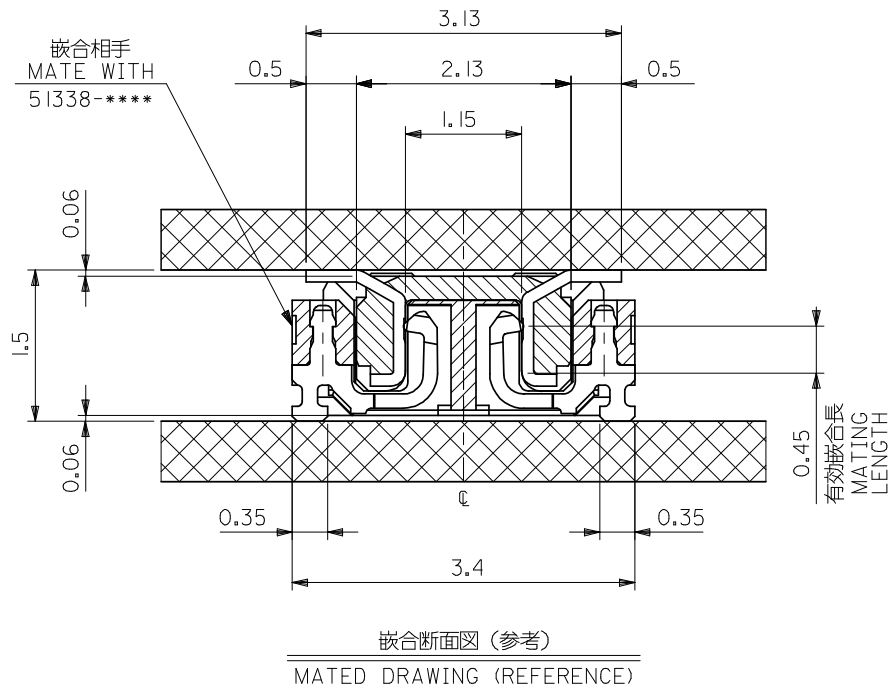
△3 (全極数/2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT/2) = EVEN.

4. 嵌合相手：51338シリーズ
MATE WITH : 51338 SERIES.
5. テール平度は、0.08以下
テール及び金具の平度は、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



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	EMBOSSSED TAPE PKG.	MATERIAL No.	CKT.
			ORDER No. オーダー番号		

REVISED EC NO.: J2009-0301 DRAWN(MABEI) CHKD:THARUYAMA APPR:NUKITA	DESCRIPTION 2008/08/27 2008/08/28 2008/08/28	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		10 UNDER	± 0.2	DRAWN BY DATE	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					
		30 OVER	± 0.3	APPROVED BY DATE					
		ANGULAR ±1/2 °		MATERIAL NO.					DOCUMENT NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-55909-003			1 OF 2
	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



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 DATE HSHI MABUKURO 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 MOLEX INCORPORATED				
			ANGULAR ±3 °		MATERIAL NO.						DOCUMENT NO.
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-55909-003		2 OF 2		
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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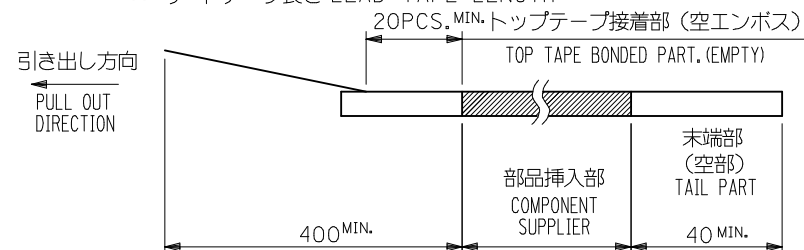
2

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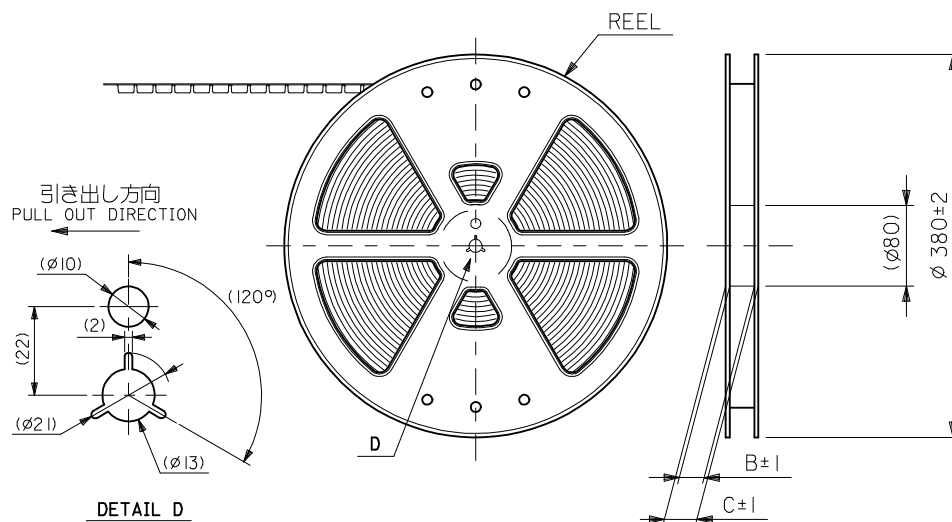
CONFIDENTIAL

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

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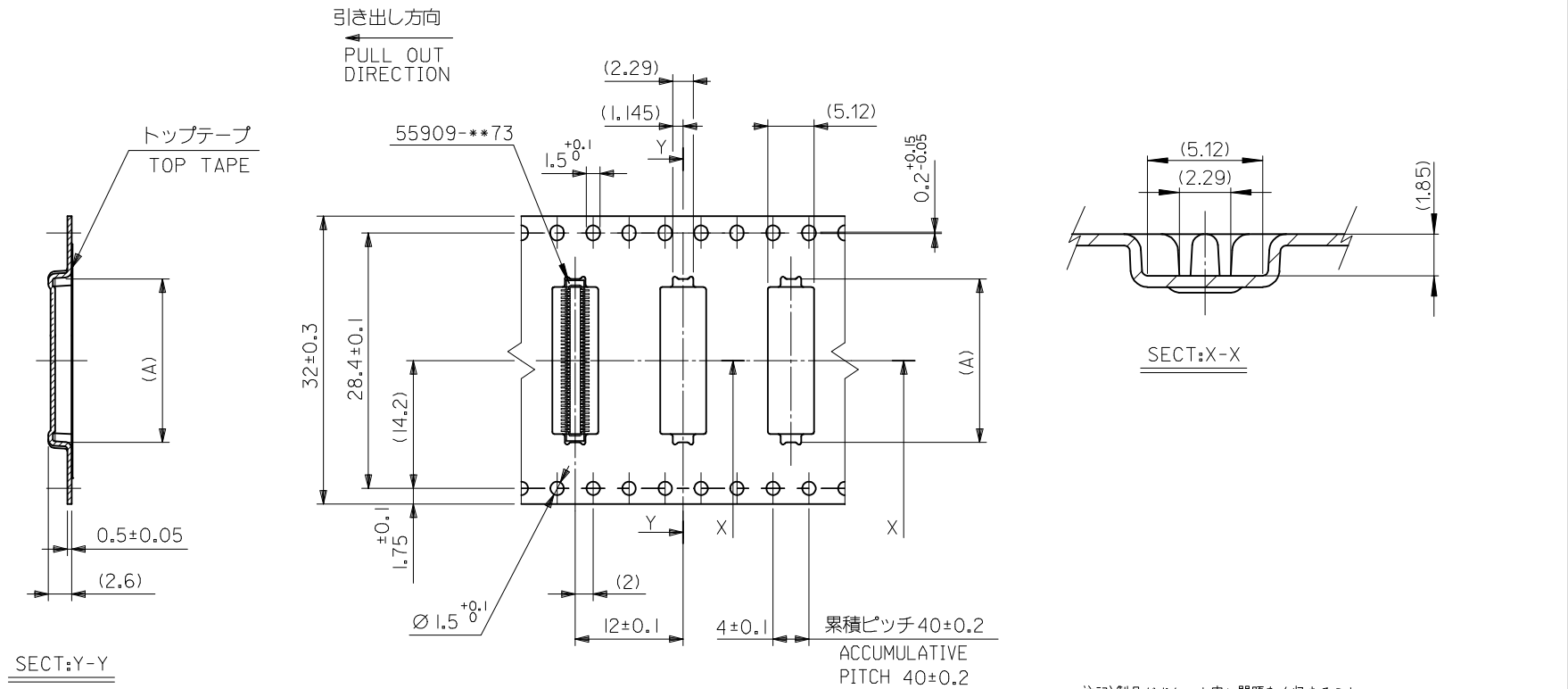
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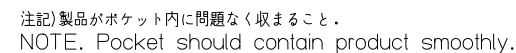
EN-02JA(021)



32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

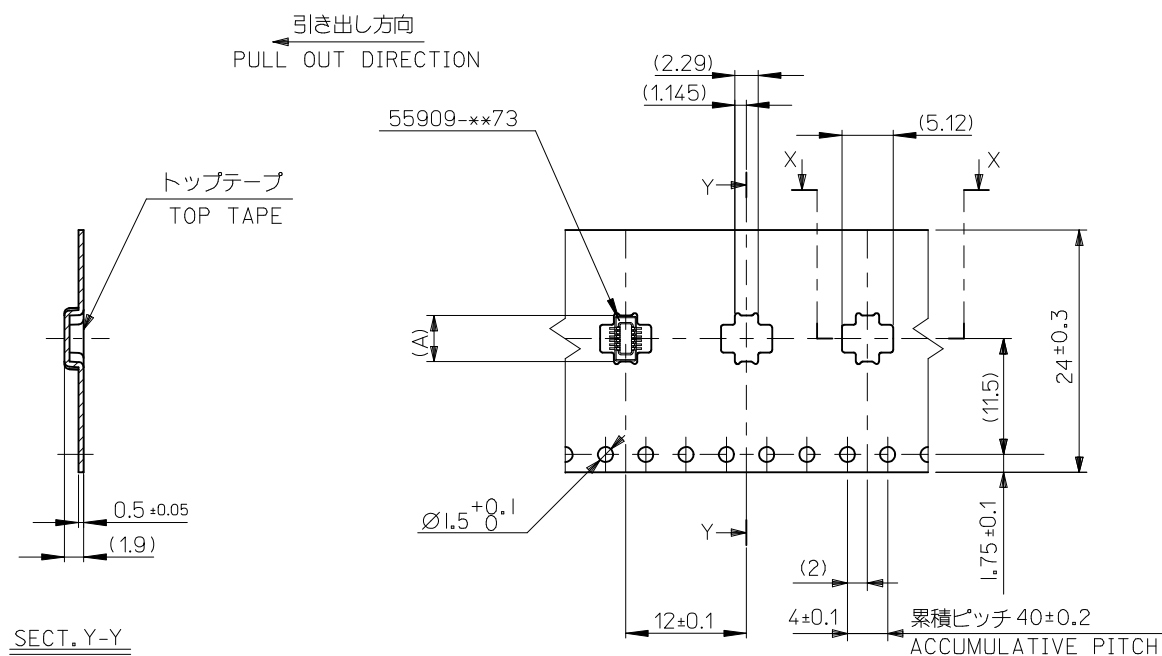
32	37.4	33.4	19.16	55909-0974	90
			18.16	55909-0874	80
			16.16	55909-0774	70
キャリアテープ幅 CARRIER TAPE WIDTH	C	B	(A)	MATERIAL NO.	極数 CKT.

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	MOLEX MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-55909-004		3 OF 5		
	REV			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



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.

tb_frame_A3_J_ME_S
Rev. E 2006/04/15



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:SMARYAMA 2009/09/18 APPR:MSASAO 2009/09/18 REV I	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				 MOLEX INCORPORATED
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.	SHEET NO.		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-55909-004		5 OF 5		
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							