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Part Number: [0559099974](#)
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, 12 Circuits

Documents:

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

General

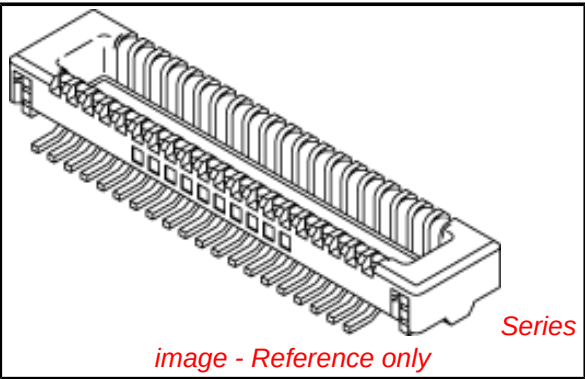
Product Family	PCB Headers
Series	55909
Application	Board-to-Board
Comments	Solder Tab Plating: Tin
Overview	slimstack_mm016_pitch
Product Name	SlimStack™

Physical

Breakaway	No
Circuits (Loaded)	12
Circuits (maximum)	12
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-500913-005, 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

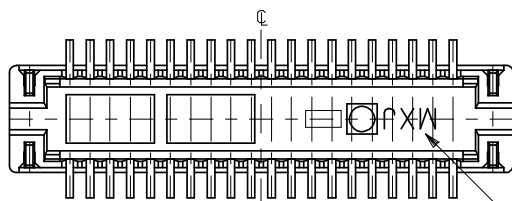
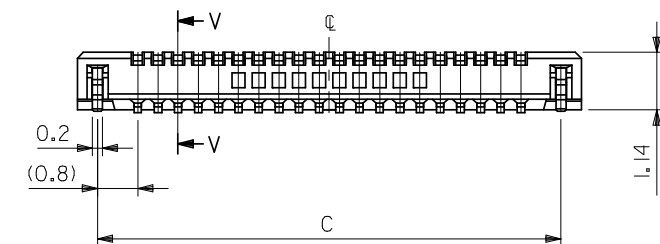
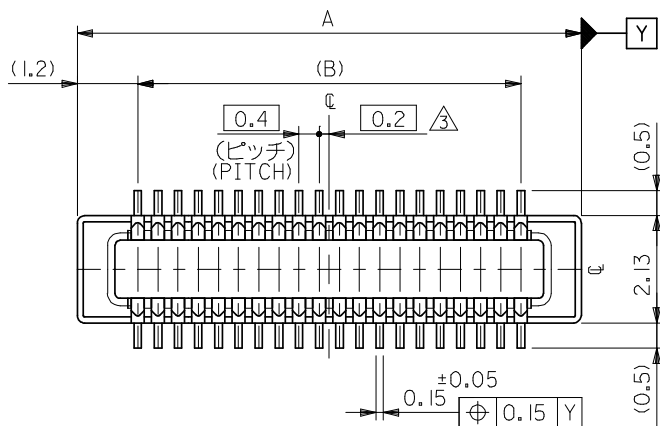
UNDER PLATING: NICKEL 1.0MICROMETER MINIMUM

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

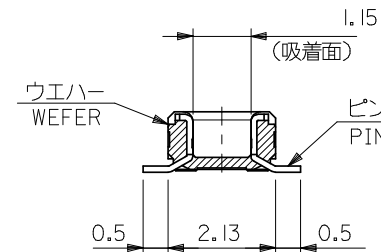
4. 嵌合相手: 51338シリーズ
MATE WITH: 51338 SERIES.

5. テール平坦度は、0.08以下
テール及び金具の平坦度は、0.1以下
TAIL COPLANARITY TO BE 0.08 MAXIMUM
TAIL AND FITTING NAIL
COPLANARITY TO BE 0.1 MAXIMUM

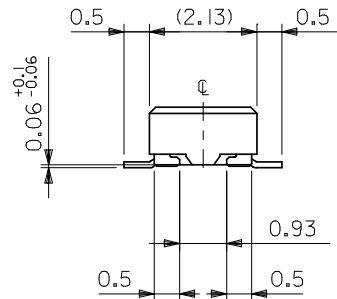
6. 本製品は 55909-***3 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 55909-***3



トレードマーク
TRADE MARK

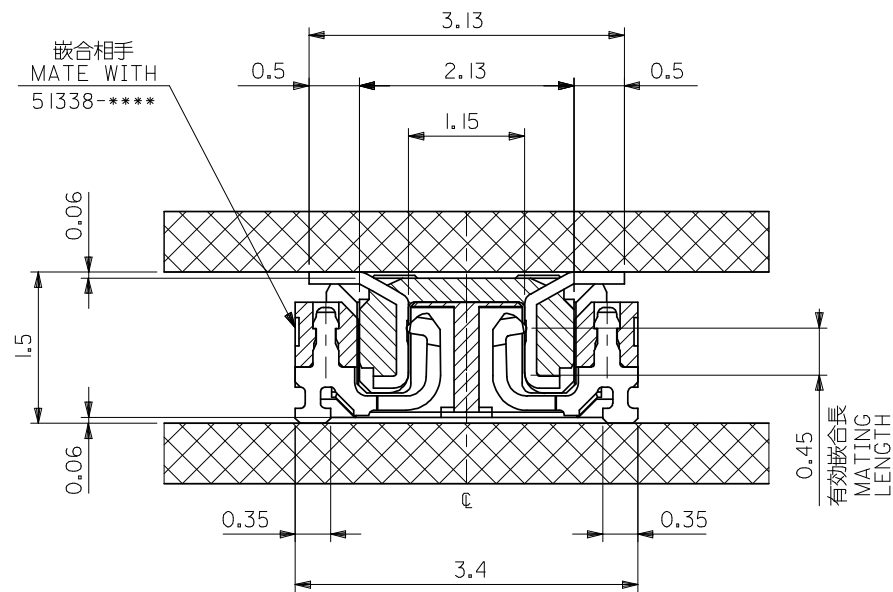


SECT. V-V

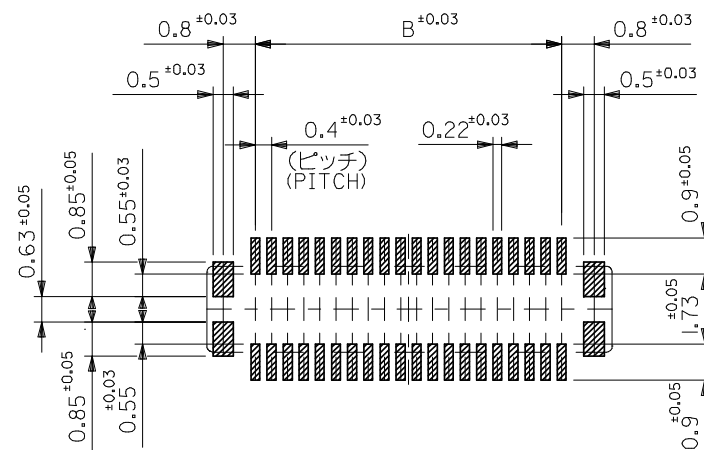


25.2	23.6	26.0	55909-1274	55909-1273	120
21.2	19.6	22.0	55909-1074	55909-1073	100
19.2	17.6	20.0	55909-0974	55909-0973	90
17.2	15.6	18.0	55909-0874	55909-0873	80
15.2	13.6	16.0	55909-0774	55909-0773	70
13.2	11.6	14.0	55909-0674	55909-0673	60
11.2	9.6	12.0	55909-0574	55909-0573	50
9.2	7.6	10.0	55909-0474	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.

REVISED EC NO: J2009-0301 2008/08/27 DRWN: MABEI 2008/08/28 CHKD: THARUYAMA 2008/08/28 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 HSH IMABUKURO 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							
		ANGULAR ±1/2 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-55909-003		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:MWABEI	2008/08/28	CHKD:THARUYAMA	APPR:NUKI TA	2008/08/28	55909-***73		MODEL NO.					
								DESIGN UNITS		THIRD ANGLE					
								METRIC		PROJECTION					
								0.4 B-TO-B CONN. PLUG							
								ASSY (HGT=1.5) WITH NAIL							
								-LEAD FREE-							
								MOLEX INCORPORATED							
								SD-55909-003							
								2 OF 2							
								REV	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE	
				MM ONLY		---				METRIC		PROJECTION			
10 UNDER		± 0.2		DRAWN BY		DATE				TITLE					
10 OVER 30 UNDER		± 0.25		CHECKED BY		DATE									
30 OVER		± 0.3		APPROVED BY		DATE									
ANGULAR		± 3 °		M. SASAO		2004/02/20				MOLEX		MOLEX INCORPORATED			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO.		DOCUMENT NO.				SHEET NO.					
				SEE SHEET 1											
				SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
				A3											

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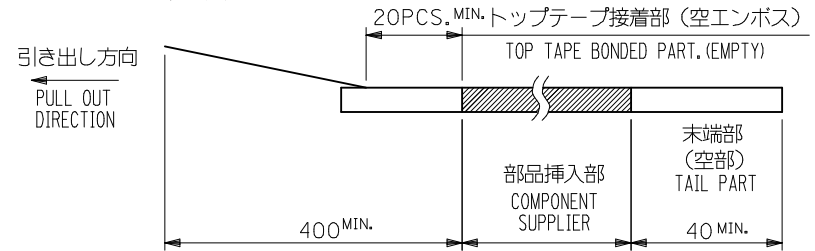
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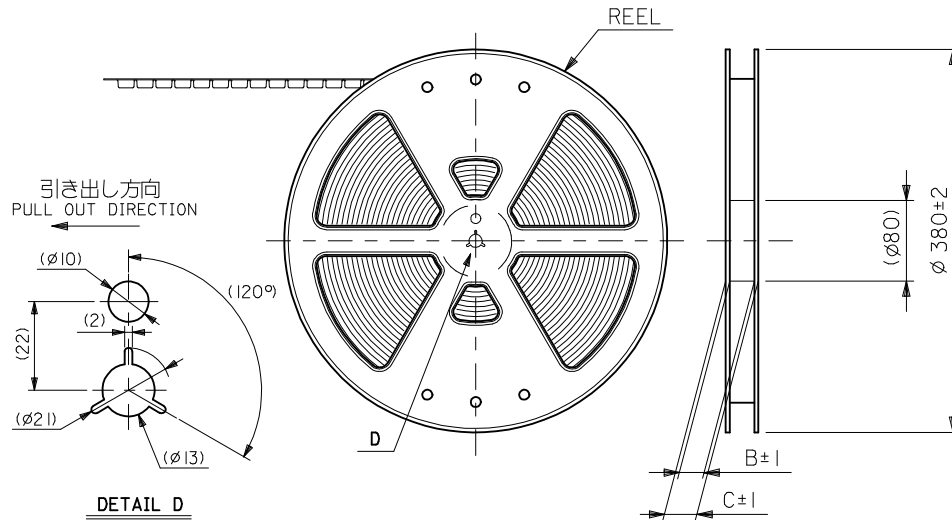
CONFIDENTIAL

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: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	 MOLEX INCORPORATED						
		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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CONFIDENTIAL

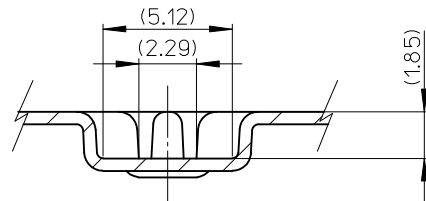
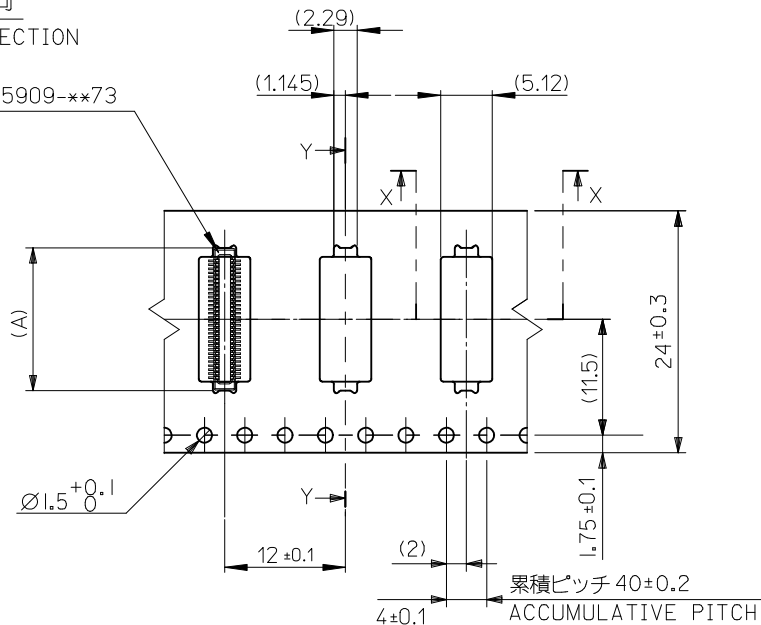
引き出し方向
PULL OUT DIRECTIONトップテープ
TOP TAPE

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:TKA IHO 2009/09/18 CHKD:SMARUYAMA 2009/09/18 APPR:MSASAO 2009/09/18	DESCRIPTION REV	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 INCORPORATED			
		ANGULAR ±3 °		MATERIAL NO.					DOCUMENT NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-55909-004			2 OF 5
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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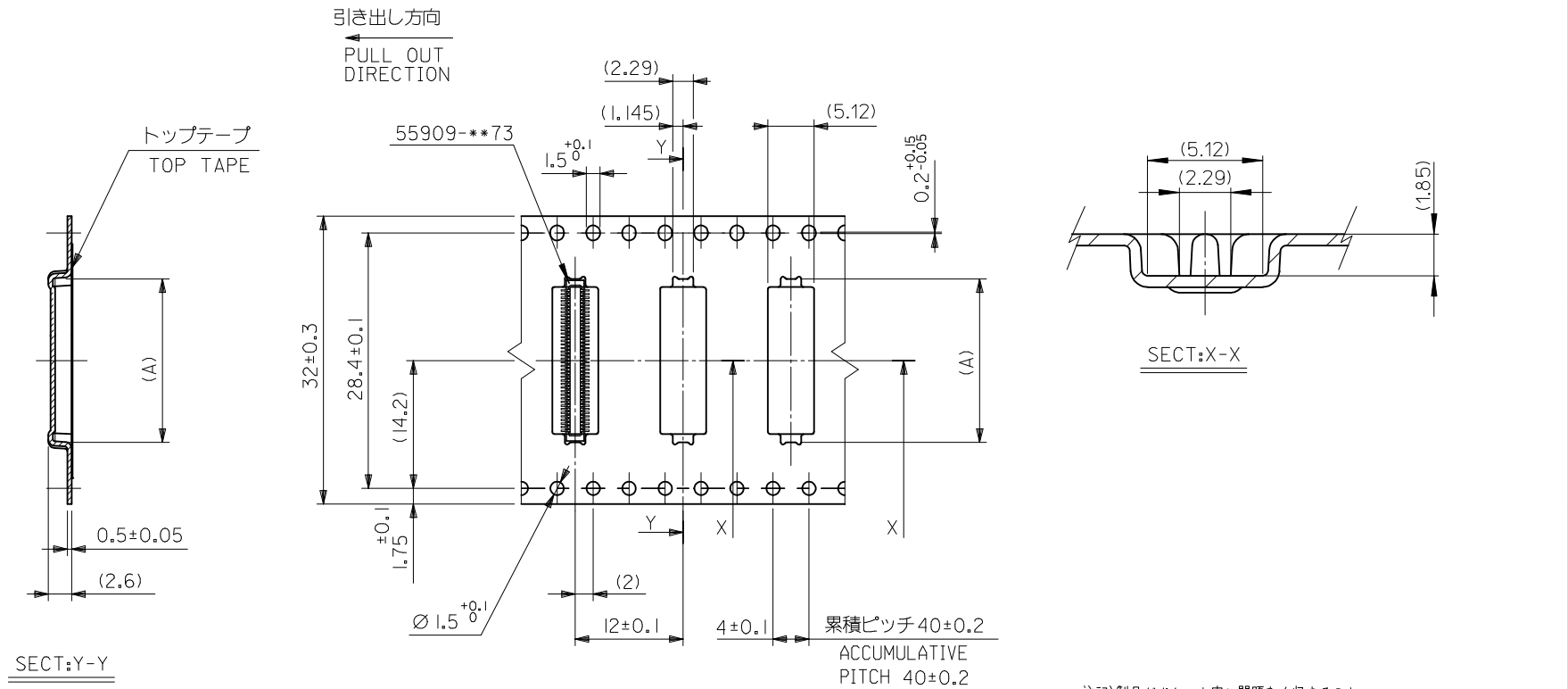
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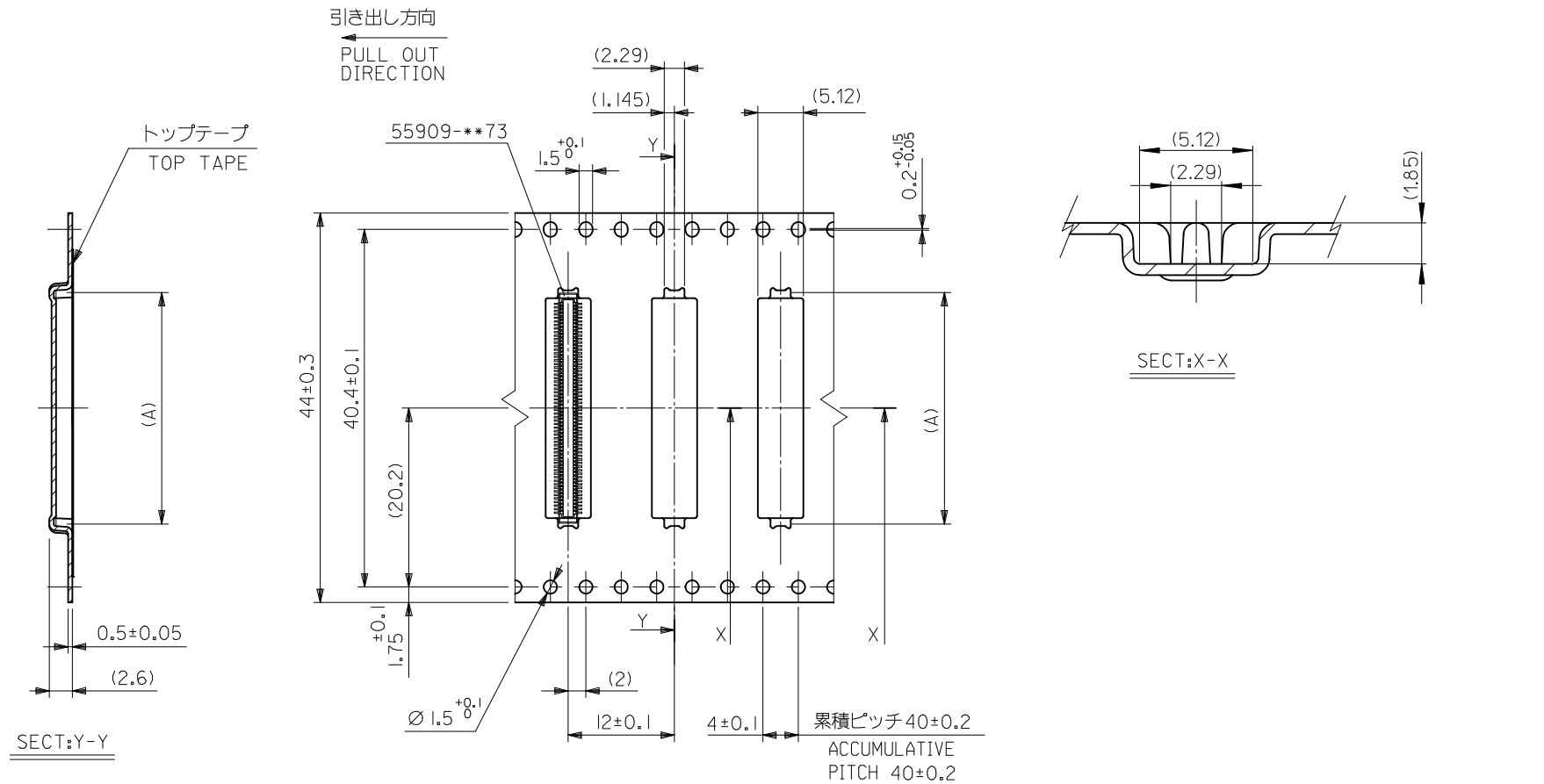
EN-02JA(021)



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:SMRUYAMA 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				



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.

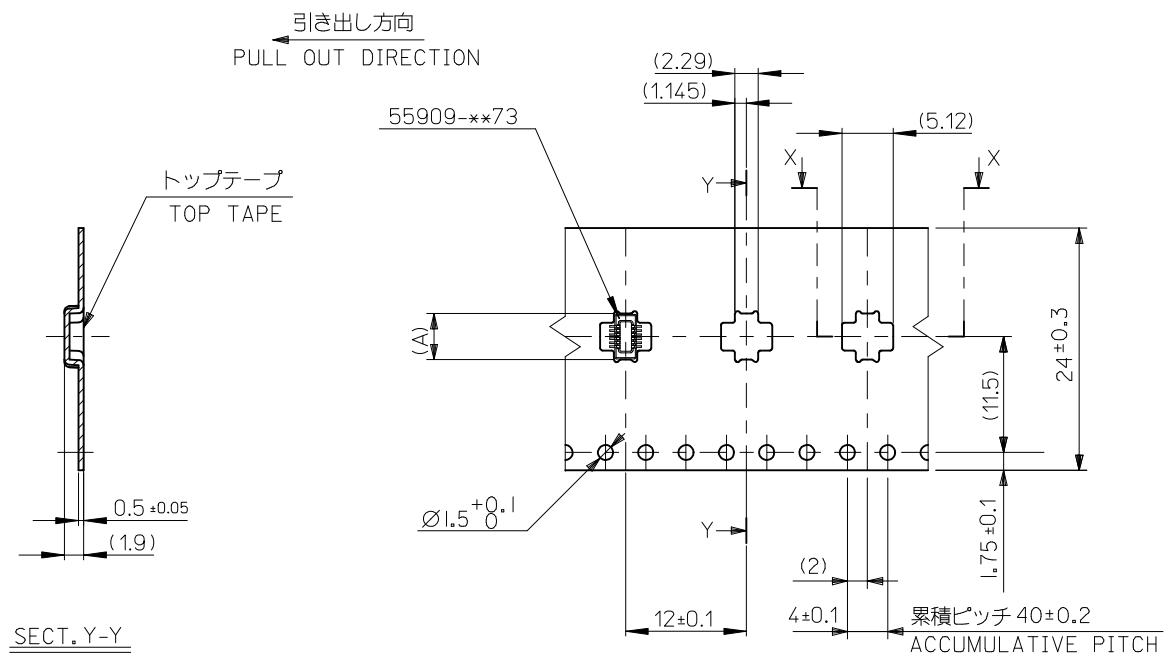
DESIGN UNITS
METRICTHIRD ANGLE
PROJECTION

REVISED		DESCRIPTION	
EC NO. J2010-0487	2009/09/18	DRWN:TKA IHO	2009/09/18
CHKD:SMARUYAMA	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		$\pm 3^\circ$	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART	

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
H. SHIMAB	2004/02/20
CHECKED BY	DATE
K. TOJO	2004/02/20
APPROVED BY	DATE
M. SASAO	2004/02/20
MATERIAL NO.	

TITLE	
0.4 B-T-O-B CONN PLUG ASSY(HGT=1.5) EMBSTP PKG	
MOLEX INCORPORATED	
DOCUMENT NO.	SHEET NO.
SD-55909-004	4 OF 5

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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.

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	
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		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		5 OF 5		
	REV 1	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							