

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

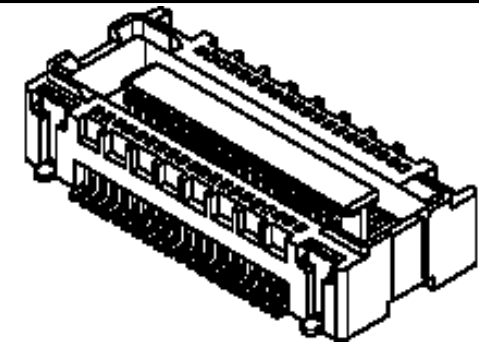
5009130302

Status:

Active

Description:

0.40mm (.016") Pitch SlimStack™ Board-to-Board Receptacle, Surface Mount, Dual Row, Vertical Stacking, Mated Height of 1.80mm (071"), with Solder Tabs, 30 Circuits, Lead-free



Series

image - Reference only

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-500913-001 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Receptacles
Series	500913
Application	Board-to-Board
Comments	Solder Tab Plating: Lead-Fr...
Product Name	SlimStack™

Physical

Circuits (Loaded)	30
Circuits (maximum)	30
Color - Resin	Black
Durability (mating cycles max)	30
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Mated Height (in)	0.071 In
Mated Height (mm)	1.80 mm
Material - Metal	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)	0.000 In
PC Tail Length (mm)	0.00 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.000 In
PCB Thickness Recommended (mm)	0.00 mm
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.016 In
Pitch - Mating Interface (mm)	0.40 mm
Pitch - Term. Interface (in)	0.016 In
Pitch - Term. Interface (mm)	0.40 mm
Plating min: Mating (µin)	10
Plating min: Mating (µm)	0.25
Plating min: Termination (µin)	2
Plating min: Termination (µm)	0.05
Polarized to Mating Part	No
Polarized to PCB	No
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	0.3A
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EU RoHS

ELV and RoHS
Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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

500913Series

Mates With

55909 PCB Header

Voltage - Maximum

50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Product Specification

PS-500913-001, RPS-500913-003, RPS-500913-005

Sales Drawing

SD-500913-001, SD-500913-002

This document was generated on 04/19/2010

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注記 NOTES:

1. 使用材料 MATERIAL
ハウジング：液晶ポリマー（LCP） ガラス充填 UL94V-0（黒）
HOUSING: LIQUID CRYSTAL POLYMER(GLASS FILLED)
UL94V-0 (COLOR:BLACK)
ターミナル：リン青銅（t=0.15）
TERMINAL: PHOSPHOR BRONZE (t=0.15)
金具：リン青銅（t=0.15）
FITTING NAIL: PHOSPHOR BRONZE (t=0.15)

2. メッキ仕様 PLATING
ターミナル TERMINAL
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
*コンタクト部とテール部はニッケルメッキによって分断されている金メッキです。
DIVIDE INTO PARTS THE GOLD PLATING OF THE CONTACT AND THE TAIL PART BY THE NICKEL PLATING.

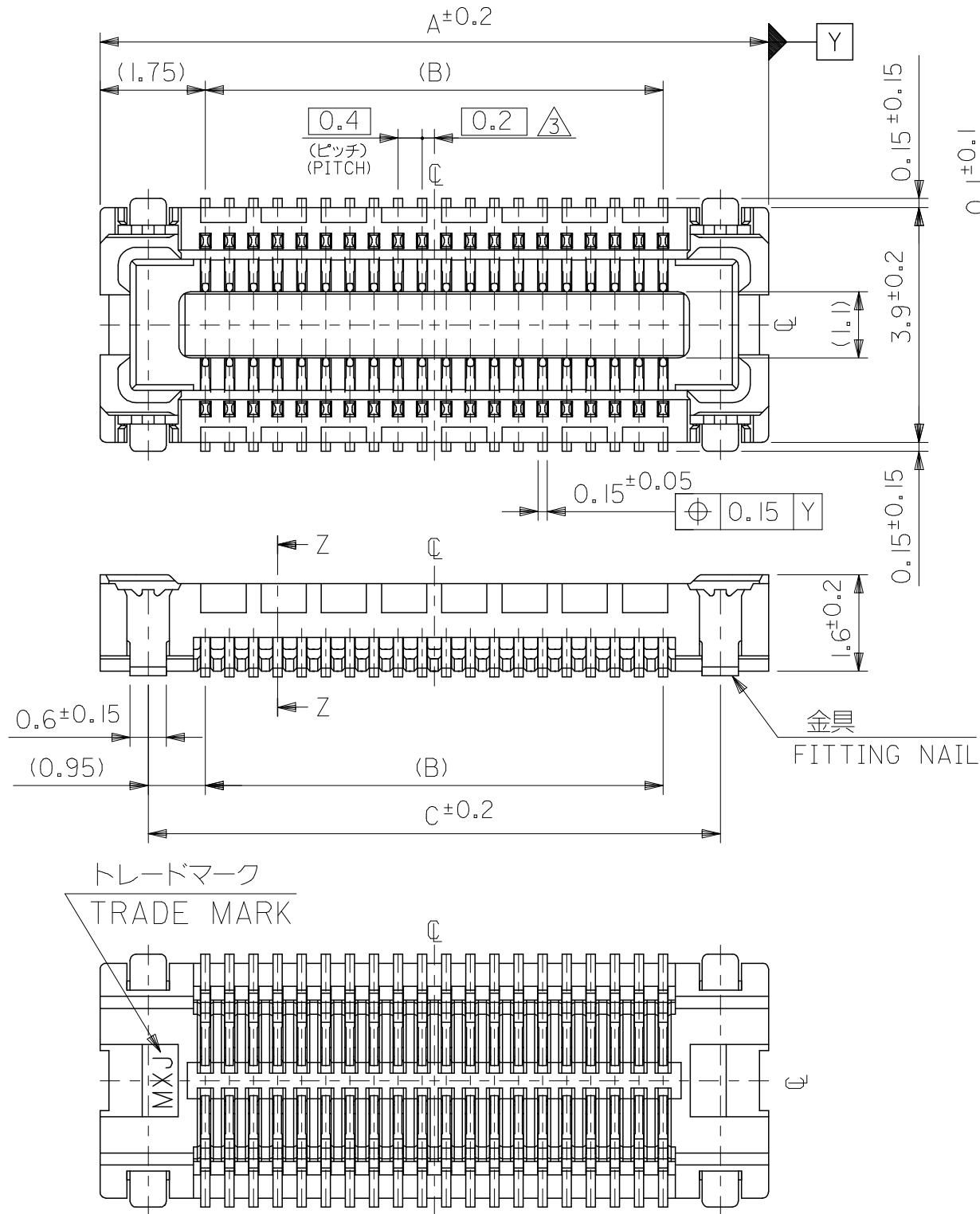
金具 FITTING NAIL
錫メッキ 1.0マイクロメートル以上
TIN PLATING 1.0MICROMETER MINIMUM
下地メッキ：ニッケルメッキ 1.0マイクロメートル以上
UNDER PLATING : NICKEL 1.0MICROMETER MINIMUM

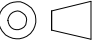
△3 (全極数/2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT/2)=EVEN.

4. 嵌合相手：55909シリーズ
MATE WITH : 55909 SERIES.

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

21.5	19.6	23.1	500913-1008	100
19.5	17.6	21.1	500913-0908	90
15.5	13.6	17.1	500913-0708	70
13.5	11.6	15.1	500913-0608	60
11.5	9.6	13.1	500913-0508	50
9.5	7.6	11.1	500913-0408	40
7.5	5.6	9.1	500913-0308	30
6.3	4.4	7.9	500913-0248	24
C	B	A	MATERIAL NO.	CIRCUIT



REVISED EC NO: J2007-1419 DRWN: MWABEI CHKD: KTOYODA APPR: NUKITA	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION	
				MM ONLY		10:1	METRIC		
		10 UNDER ± ---		DRAWN BY DATE		TITLE 0.4 B-TO-B CONN REC HSG ASSY (HGT=1.8MM) -LEAD FREE-			
				R. SUMIYA 2004/04/19					
		10 OVER 30 UNDER ± ---		CHECKED BY DATE		MOLEX MOLEX INCORPORATED			
				M. SASAO 2004/04/19					
30 OVER ± ---		APPROVED BY DATE		DOCUMENT NO. SD-500913-001					
		M. SASAO 2004/04/19							
ANGULAR ± --- °		MATERIAL NO.		SHEET NO. 1 OF 2					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART							
		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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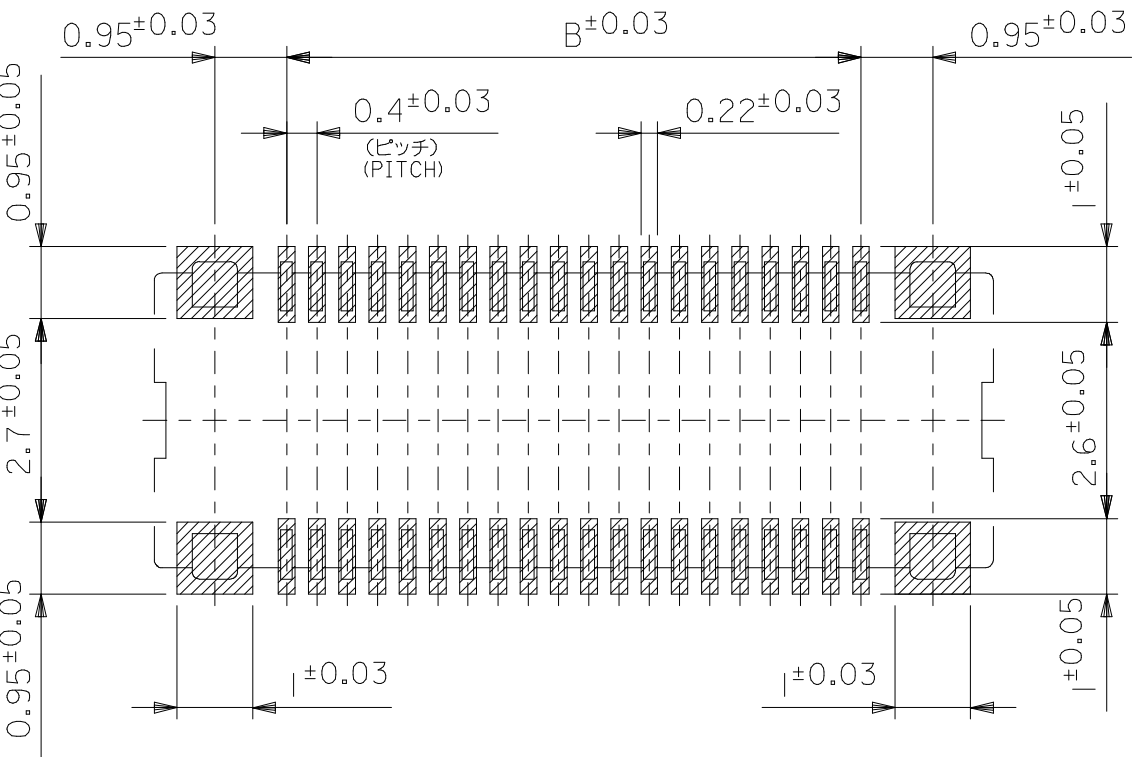
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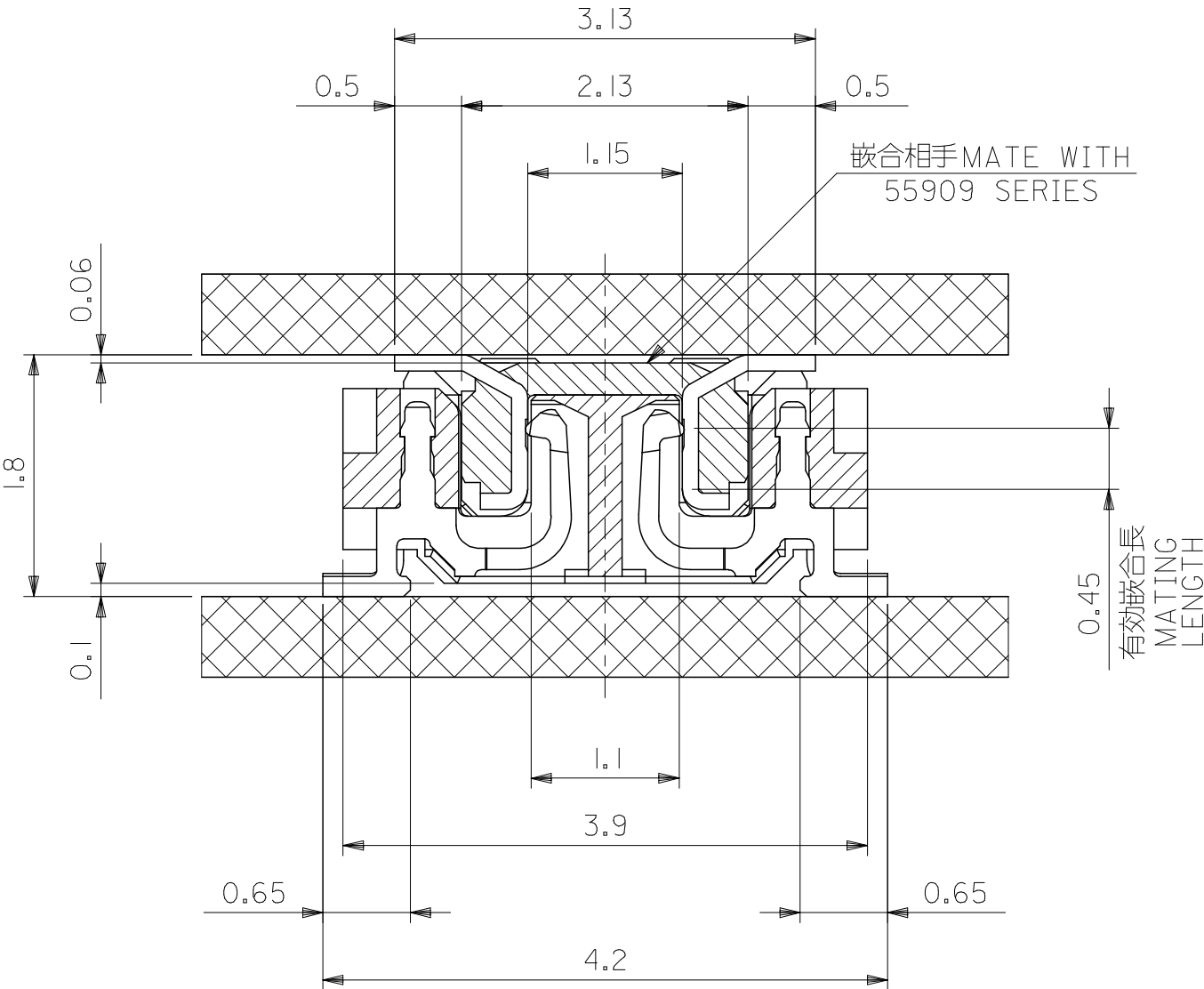
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参考基板レイアウト（マウント面）
P.C.BOARD PATTERN DIMENSION. (REFERENCE)
(MOUNTING AREA)



嵌合断面図（参考）
MATED DRAWING (REFERENCE)

REVISED	EC NO: J2007-1419	DRWN: MNABEI	CH'KD: KTOYODA	APPR: NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		500913-***8		MODEL NO.	
						10 UNDER	± ---	DRAWN BY	DATE	SCALE		DESIGN UNITS	
						10 OVER 30 UNDER	± ---	CHECKED BY	DATE	---		METRIC	
						30 OVER	± ---	APPROVED BY	DATE	TITLE		THIRD ANGLE PROJECTION	
						ANGULAR	± --- °	MATERIAL NO.		0.4 B-TO-B CONN REC HSG ASSY (HGT=1.8MM) -LEAD FREE-		MOLEX INCORPORATED	

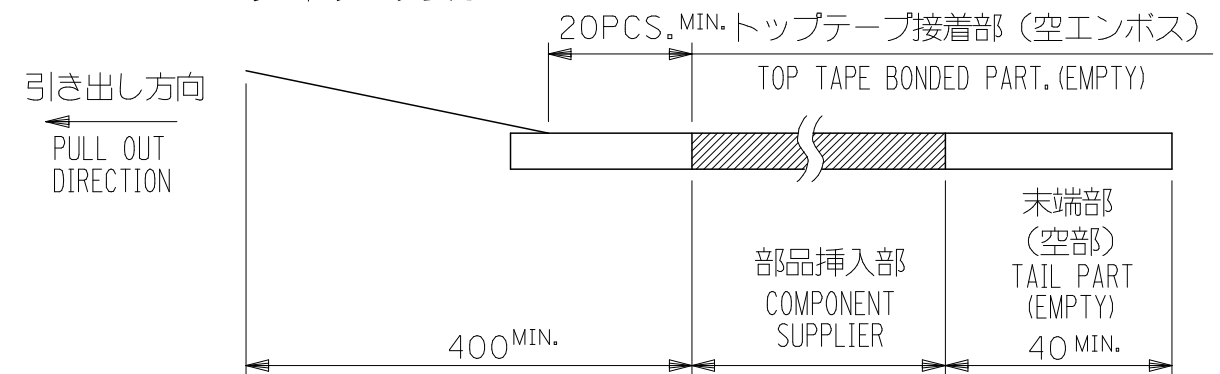
REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHART		DOCUMENT NO.		SHEET NO.	
		SIZE		SD-500913-001		2 OF 2	
		A3					

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

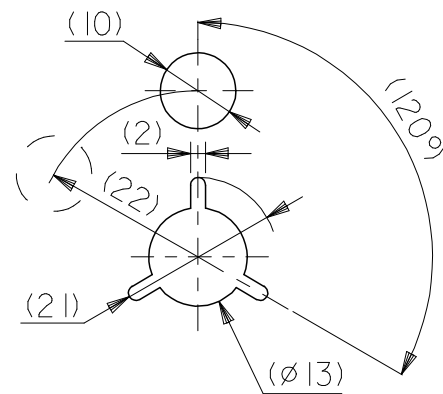
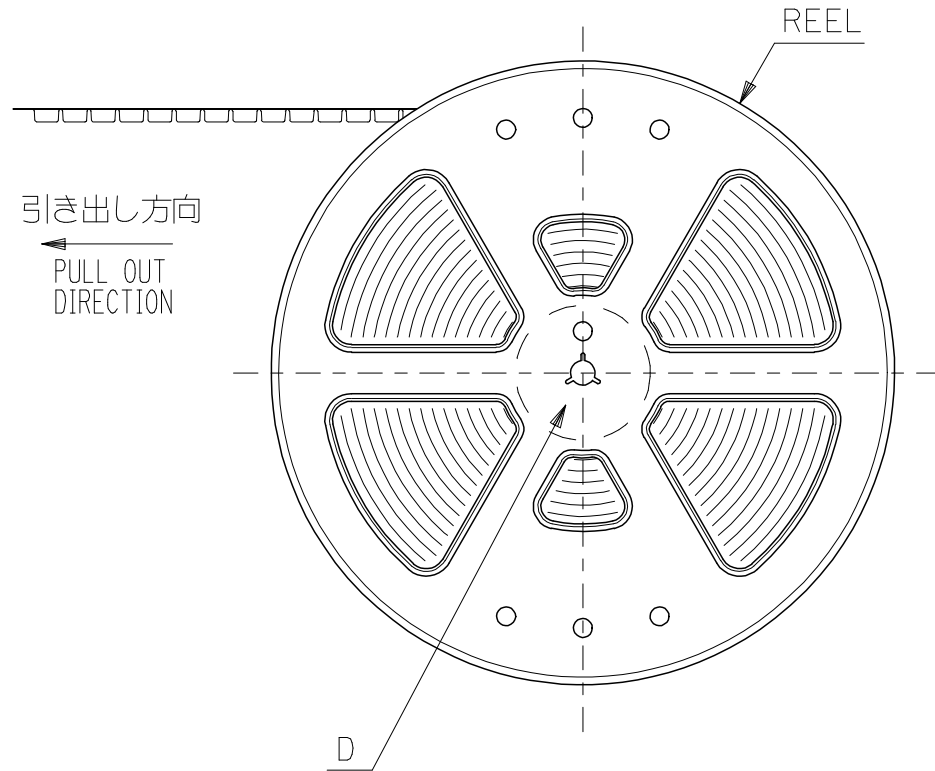
500913-***8		MODEL NO.					
SCALE		DESIGN UNITS		TITLE		THIRD ANGLE PROJECTION	
---		METRIC		0.4 B-TO-B CONN REC HSG ASSY (HGT=1.8MM) -LEAD FREE-		MOLEX INCORPORATED	
SEE CHART		DOCUMENT NO.		SD-500913-001		SHEET NO.	
						2 OF 2	

NOTES

- 製品詳細寸法については製品単体図面SD-500913-001を参照下さい。
RE DETAILED DIMENSION, SEE PRODUCT DRAWING NO. SD-500913-001.
- 梱包数量：1500個／リール
NUMBER OF CONNECTORS : 1500PCS/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>



DETAIL D

REVISED
EC NO: J2007-1419
DRAWN: MNABEI 2006/11/16
CHKD: KTOYODA 2006/11/20
APPR: NUKITA 2006/11/21

DESCRIPTION

GENERAL TOLERANCES (UNLESS SPECIFIED)	
10 UNDER	± ---
10 OVER 30 UNDER	± ---
30 OVER	± ---
ANGULAR	± --- °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
R. SUMIYA	2004/04/19
CHECKED BY	DATE
M. SASAO	2004/04/19
APPROVED BY	DATE
M. SASAO	2004/04/19
MATERIAL NO.	SEE CHART
SIZE	A3

500913-***2		MODEL NO.	
SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
TITLE 0.4 B-TO-B REC HSG ASSY (HGT=1.8) EMBSTP PKG -LEAD FREE-			
MOLEX INCORPORATED			
DOCUMENT NO. SD-500913-002		SHEET NO. 1 OF 4	

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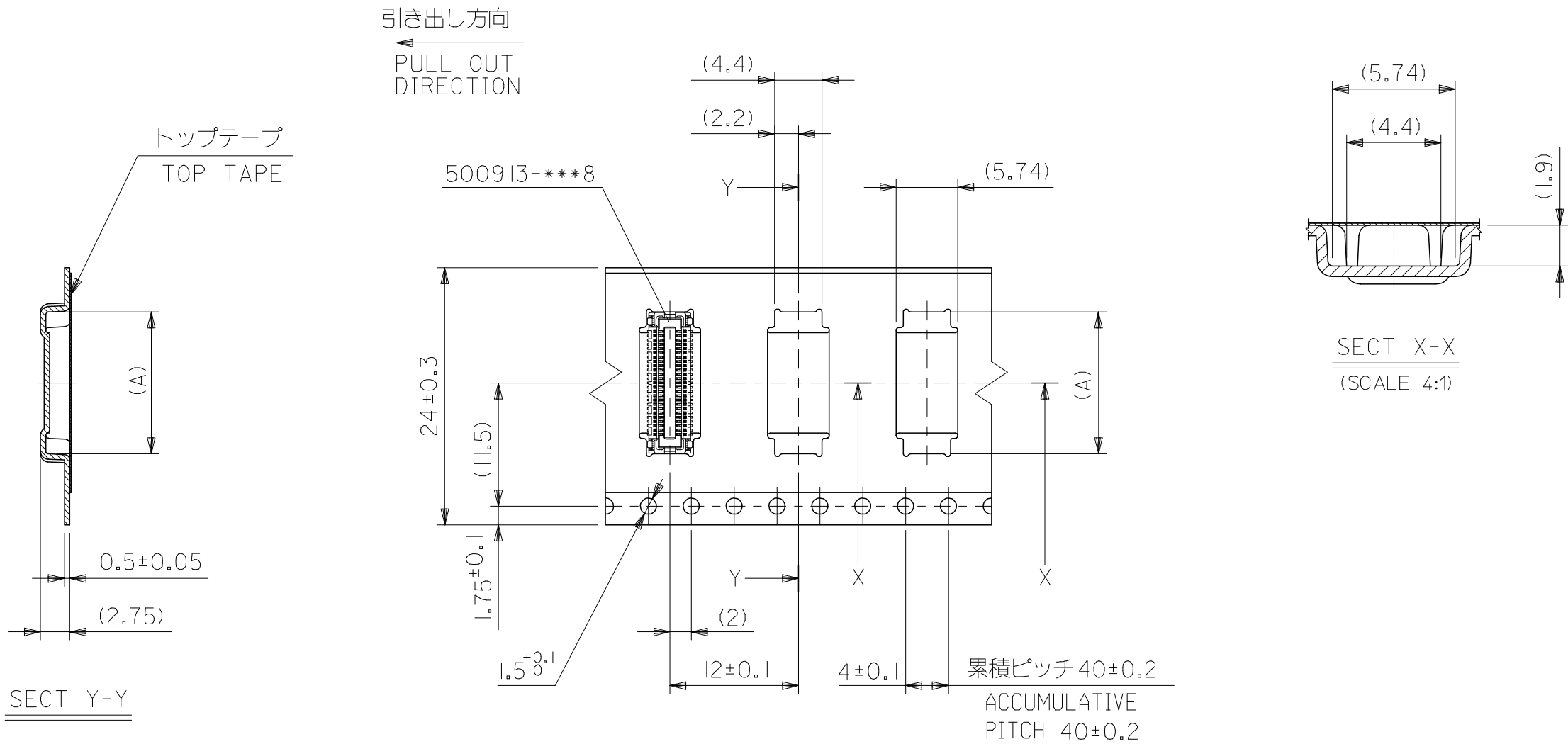
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24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

24	29.4	25.4	15.26	500913-0602	60
			13.26	500913-0502	50
			11.26	500913-0402	40
			9.26	500913-0302	30
			8.06	500913-0242	24
キャリアテープ幅 CARRIER TAPE WIDTH	C	B	(A)	MATERIAL NO.	CIRCUIT

REVISED		EC NO: J2007-1419		DRWN: MNABEI		2006/11/16					
				CHKD: KTOYODA		2006/11/20					
				APPR: NUKITA		2006/11/21					
				DESCRIPTION							
				GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE MM ONLY		500913-***2	
				10 UNDER		± ---		DRAWN BY R. SUMIYA		DATE 2004/04/19	
				10 OVER 30 UNDER		± ---		CHECKED BY M. SASAO		DATE 2004/04/19	
				30 OVER		± ---		APPROVED BY M. SASAO		DATE 2004/04/19	
				ANGULAR		± --- °		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-500913-002	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
				REV							

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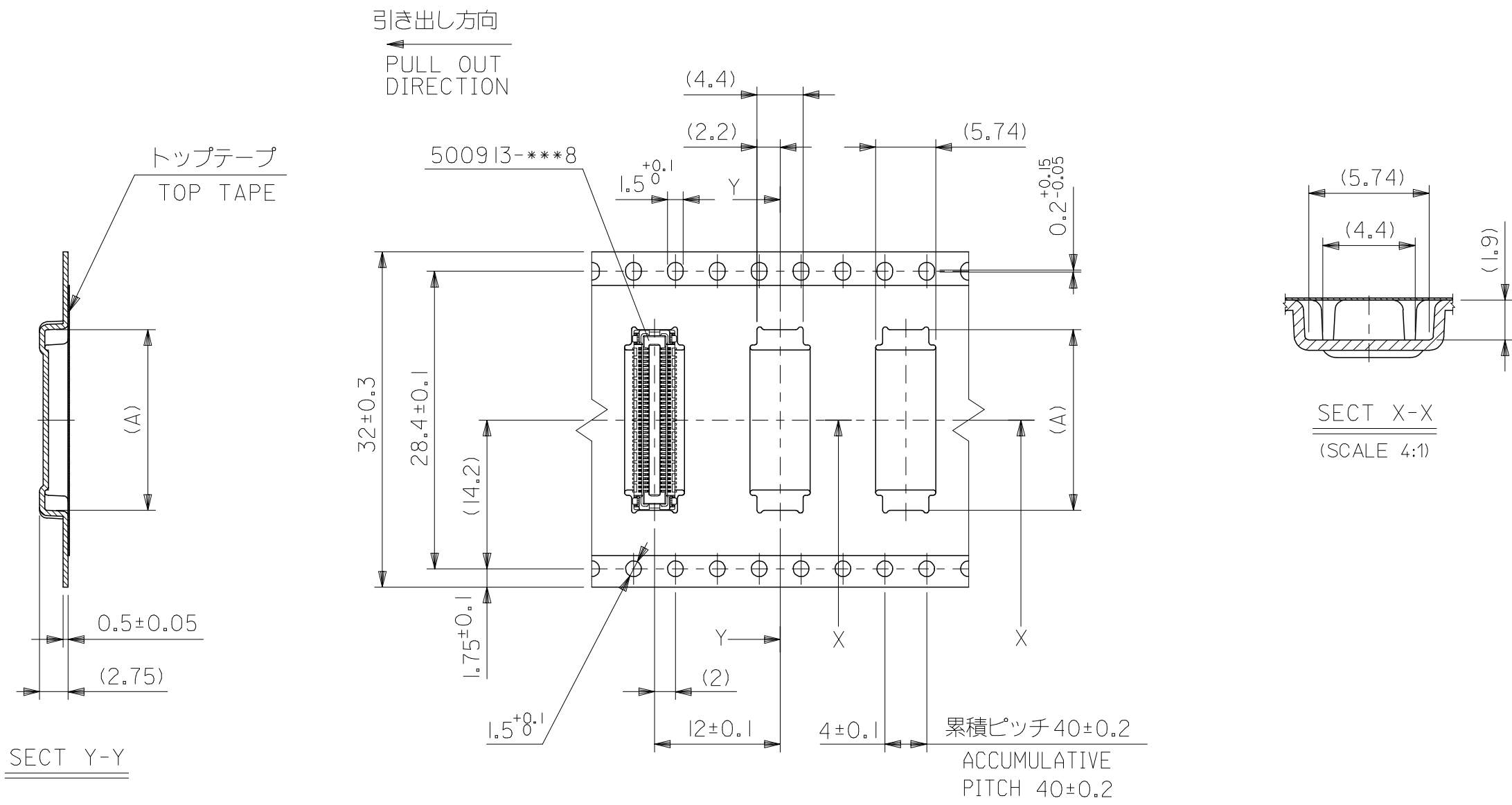
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32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

32	41.4	37.4	21.26	500913-0902	90
	37.4	33.4	17.26	500913-0702	70
キャリアテープ幅 CARRIER TAPE WIDTH	C	B	(A)	MATERIAL NO.	CIRCUIT

REVISED		EC NO: J2007-1419		2006/11/16		2006/11/20		2006/11/21		DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		500913-***2		MODEL NO.	
		DRWN:MNABEI														SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
												TITLE		0.4 B-TO-B REC HSG ASSY (HGT=1.8) EMBSTP PKG -LEAD FREE-					
		10 UNDER		± ---		DRAWN BY R. SUMIYA		DATE 2004/04/19											
		10 OVER 30 UNDER		± ---		CHECKED BY M. SASAO		DATE 2004/04/19											
		30 OVER		± ---		APPROVED BY M. SASAO		DATE 2004/04/19											
		ANGULAR		± --- °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE CHART		SD-500913-002		3 OF 4									
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											

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