

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

5009130402

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, 40 Circuits, Lead-free

Documents:

3D Model

Drawing (PDF)

Product Specification PS-500913-001 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Comments

Product Name

PCB Receptacles

500913

Board-to-Board

Solder Tab Plating: Lead-Free, Tin

SlimStack™

Physical

Circuits (Loaded)

Circuits (maximum)

Color - Resin

Durability (mating cycles max)

Glow-Wire Compliant

Lock to Mating Part

Mated Height (in)

Mated Height (mm)

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to Mating Part

Polarized to PCB

Stackable

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

40

40

Black

30

No

Yes

0.071 In

1.80 mm

Phosphor Bronze

Gold

Gold

High Temperature Thermoplastic

2

Vertical

0.000 In

0.00 mm

No

None

0.000 In

0.00 mm

Embossed Tape on Reel

0.016 In

0.40 mm

0.016 In

0.40 mm

10

0.25

2

0.05

No

No

No

Yes

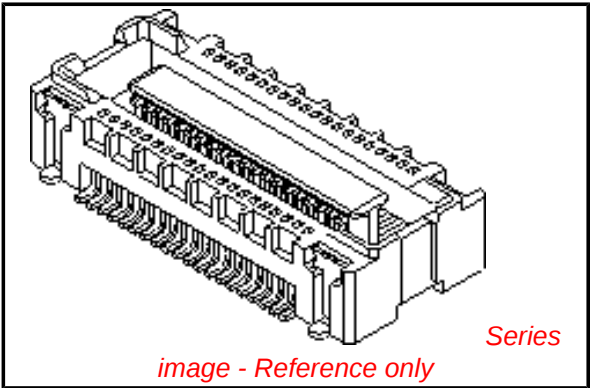
-25°C to +85°C

Surface Mount

Electrical

Current - Maximum per Contact

0.3A



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-500913-002, 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.

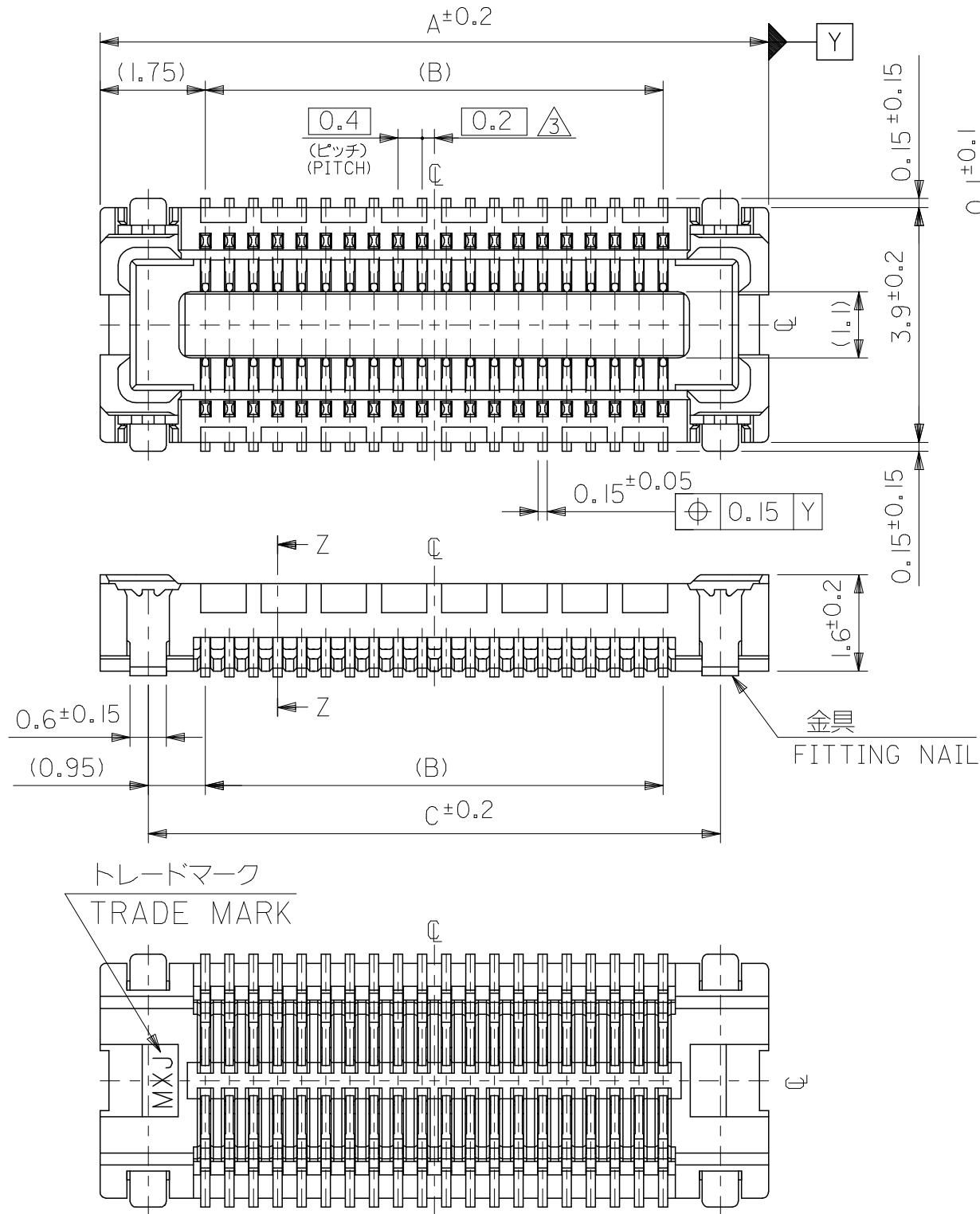
金具 FITTING NAIL
錫メッキ 1.0マイクロメートル以上
TIN PLATING 1.0MICROMETER MINIMUM
下地メッキ：ニッケルメッキ 1.0マイクロメートル以上
UNDER PLATING : NICKEL 1.0MICROMETER MINIMUM

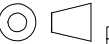
△3 (全極数/2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT/2)=EVEN.

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 INCORPORATED			
				M. SASAO 2004/04/19					
30 OVER ± ---		APPROVED BY DATE		DOCUMENT NO. SD-500913-001					
		M. SASAO 2004/04/19						SHEET NO. 1 OF 2	
ANGULAR ± --- °		MATERIAL NO.		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART							
		SIZE A3							

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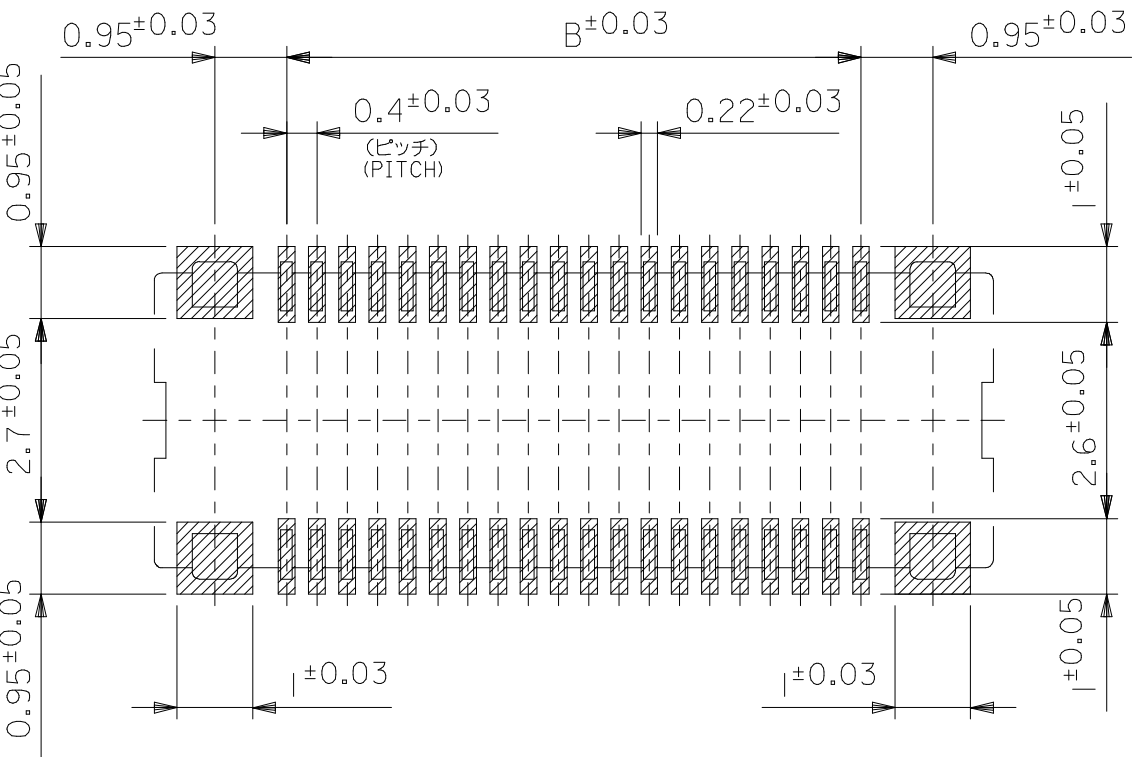
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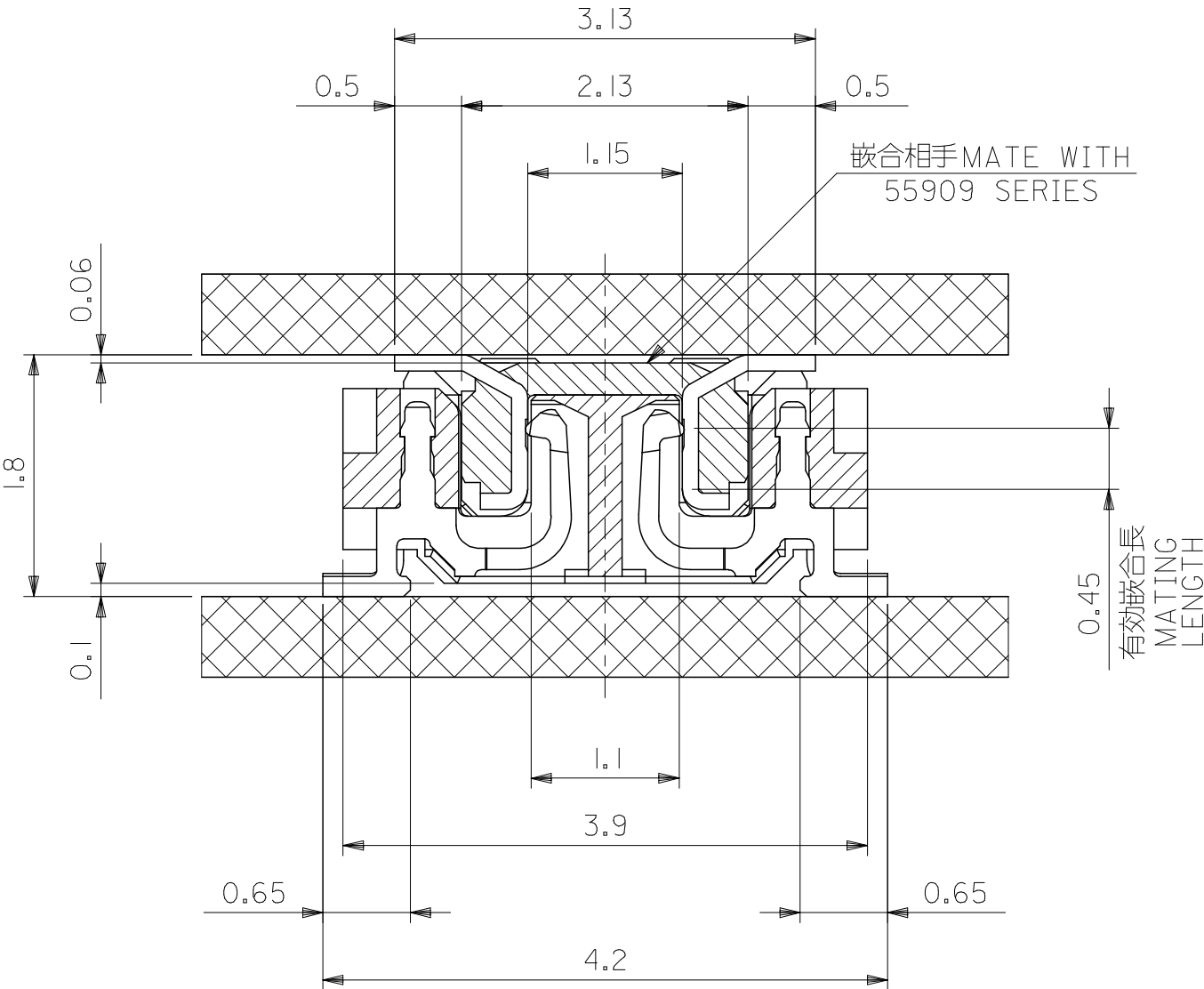
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参考基板レイアウト (マウント面)
P.C.BOARD PATTERN DIMENSION. (REFERENCE)
(MOUNTING AREA)

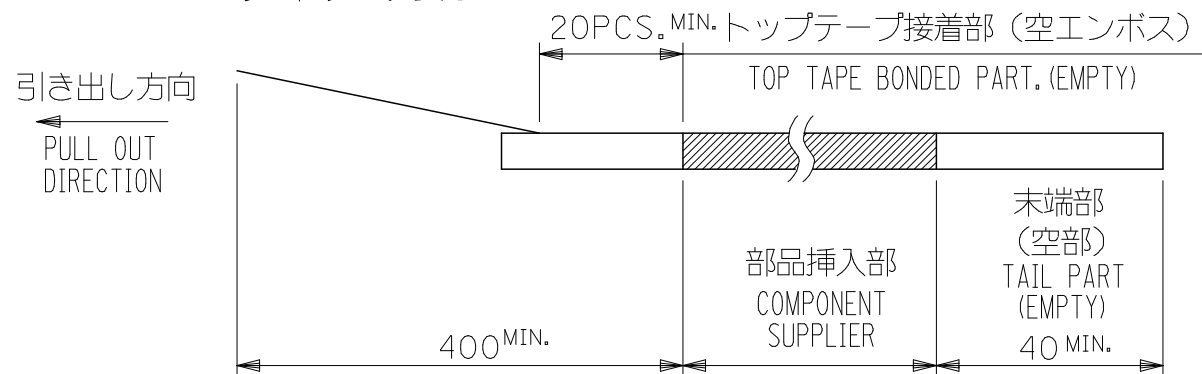


嵌合断面図 (参考)
MATED DRAWING (REFERENCE)

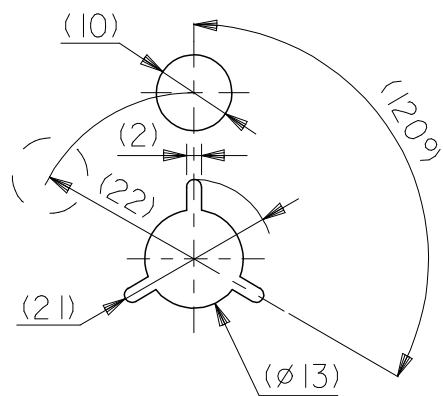
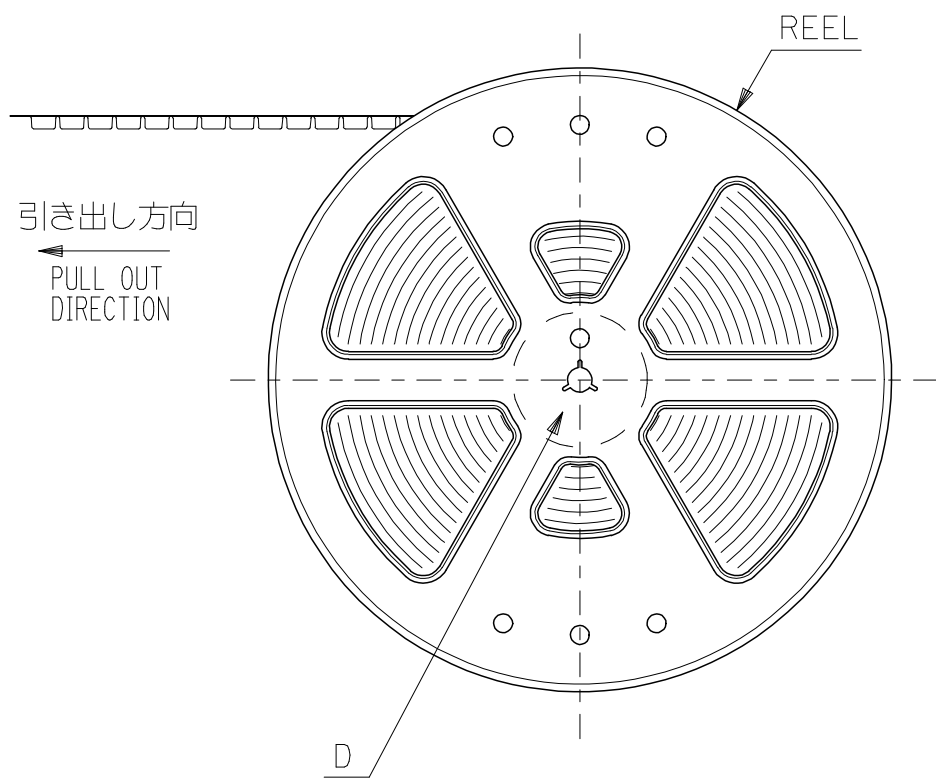
REVISED		EC NO: J2007-1419		DRWN:MNABEI		2006/11/16		CH'KD:KTOYODA		2006/11/20		APPR:NUKITA		2006/11/21		DESCRIPTION REV		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
1		10 UNDER		± ---		DRAWN BY R. SUMIYA		DATE 2004/04/19		TITLE 0.4 B-TO-B CONN REC HSG ASSY (HGT=1.8MM) -LEAD FREE-																	
		10 OVER 30 UNDER		± ---		CHECKED BY M. SASAO		DATE 2004/04/19																			
		30 OVER		± ---		APPROVED BY M. SASAO		DATE 2004/04/19		molex MOLEX INCORPORATED																	
		ANGULAR ± --- °		MATERIAL NO.				DOCUMENT NO.										SHEET NO.									
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART				SD-500913-001										2 OF 2									
		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																							

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 DRWN: MNABEI 2006/11/16 CHKD: KTOYODA 2006/11/20 APPR: NUKITA 2006/11/21	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
				DRAWN BY DATE R. SUMIYA 2004/04/19		TITLE 0.4 B-TO-B REC HSG ASSY (HGT=1.8) EMBSTP PKG -LEAD FREE-			
		10 UNDER ± ---		CHECKED BY DATE M. SASAO 2004/04/19					
		10 OVER 30 UNDER ± ---		APPROVED BY DATE M. SASAO 2004/04/19					
		30 OVER ± ---		 MOLEX INCORPORATED					
		ANGULAR ± --- °						DOCUMENT NO. SD-500913-002	
	REV		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		
SEE CHART									

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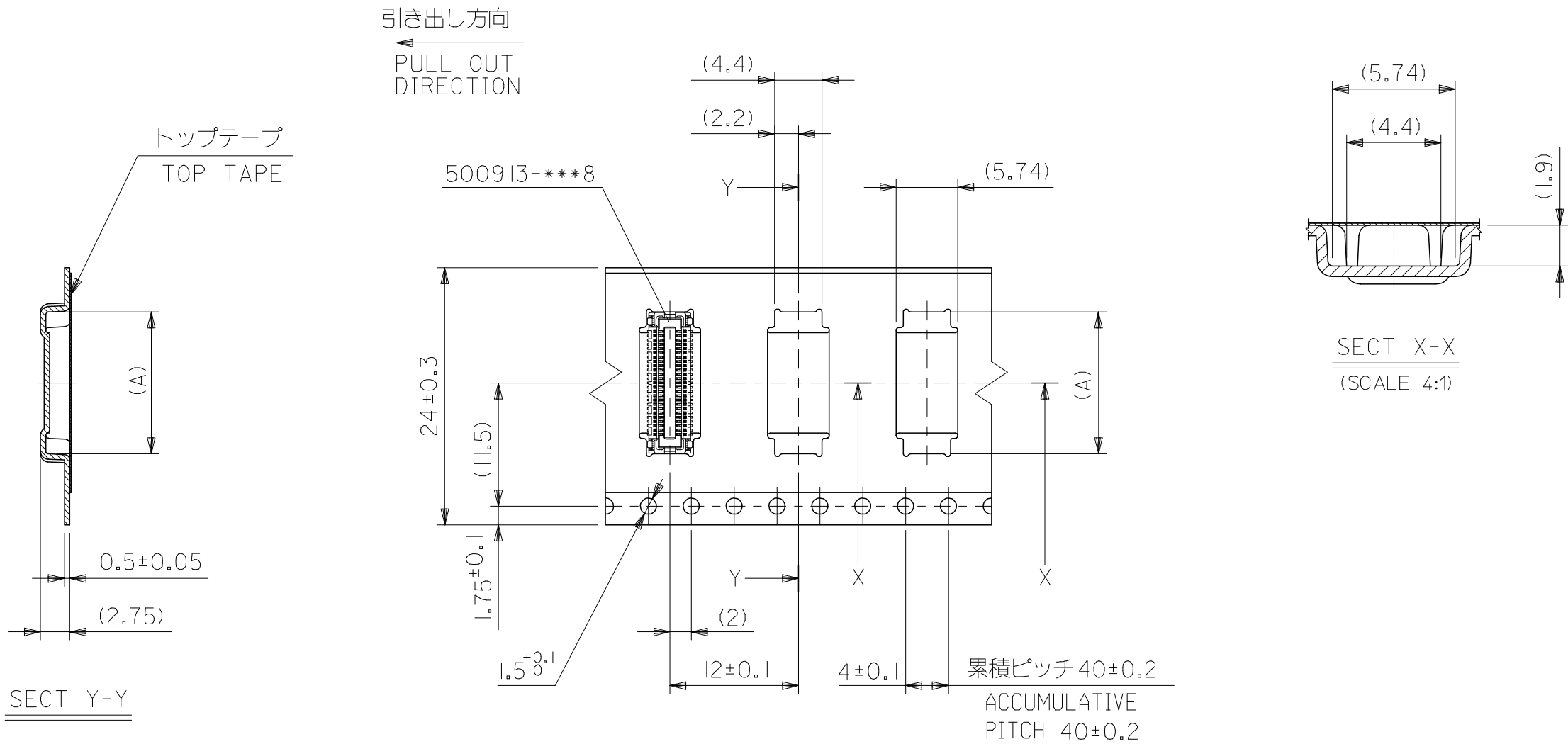
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24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

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		2006/11/16 DRWN:MNABEI		2006/11/20 CHKD:KTOYODA		2006/11/21 APPR:NUKITA		DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		500913-***2		MODEL NO.							
												10 UNDER		± ---		DRAWN BY R. SUMIYA		DATE 2004/04/19		SCALE 2:1		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
												10 OVER 30 UNDER		± ---		CHECKED BY M. SASAO		DATE 2004/04/19		TITLE 0.4 B-T0-B REC HSG ASSY (HGT=1.8) EMBSTP PKG -LEAD FREE-					
										30 OVER		± ---		APPROVED BY M. SASAO		DATE 2004/04/19									
												ANGULAR		± --- °		MATERIAL NO.		DOCUMENT NO.		SD-500913-002				SHEET NO. 2 OF 4	
												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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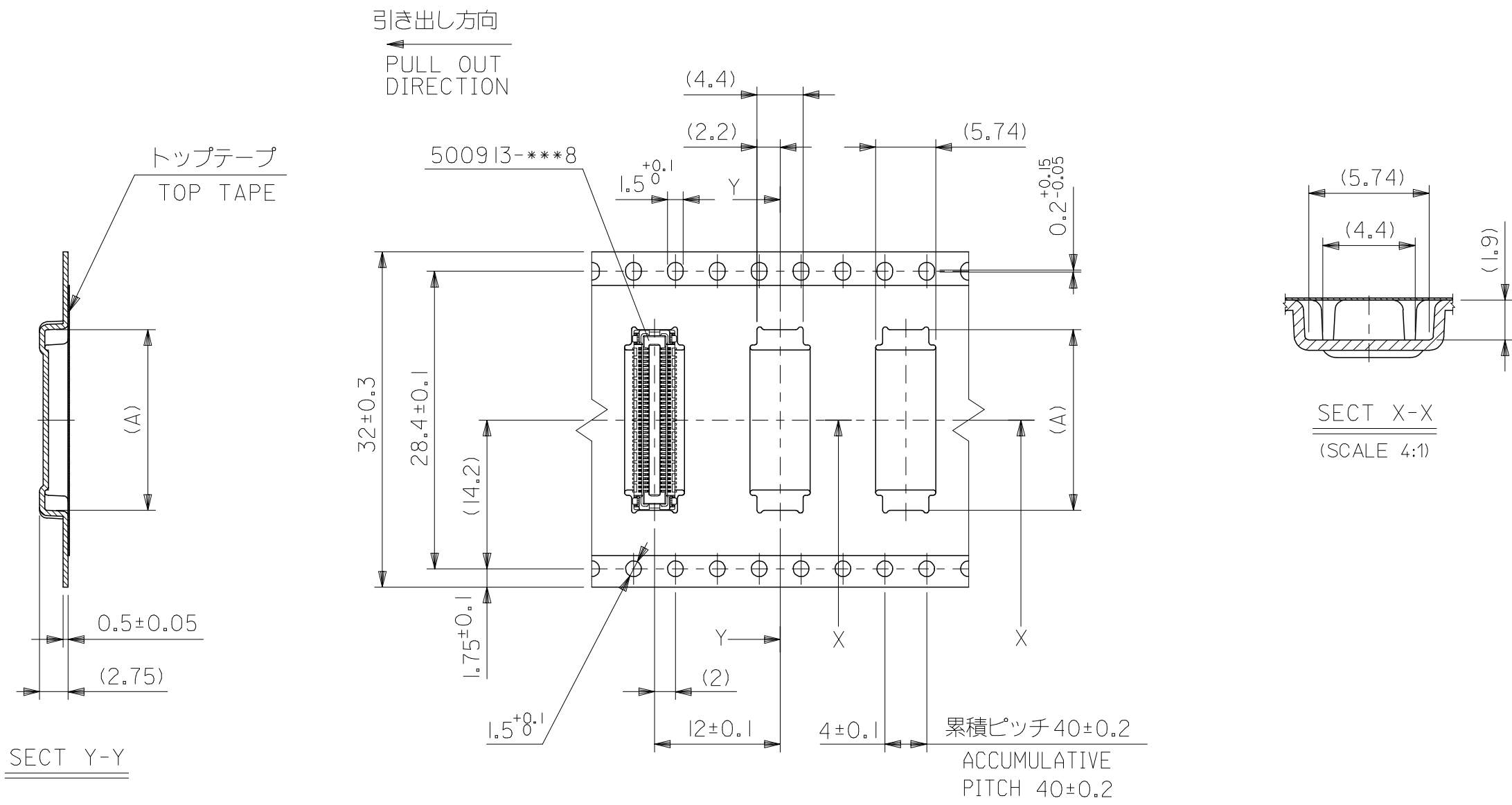
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32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

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			
DRWN:MNABEI		CHKD:KTOYODA		APPR:NUKITA							

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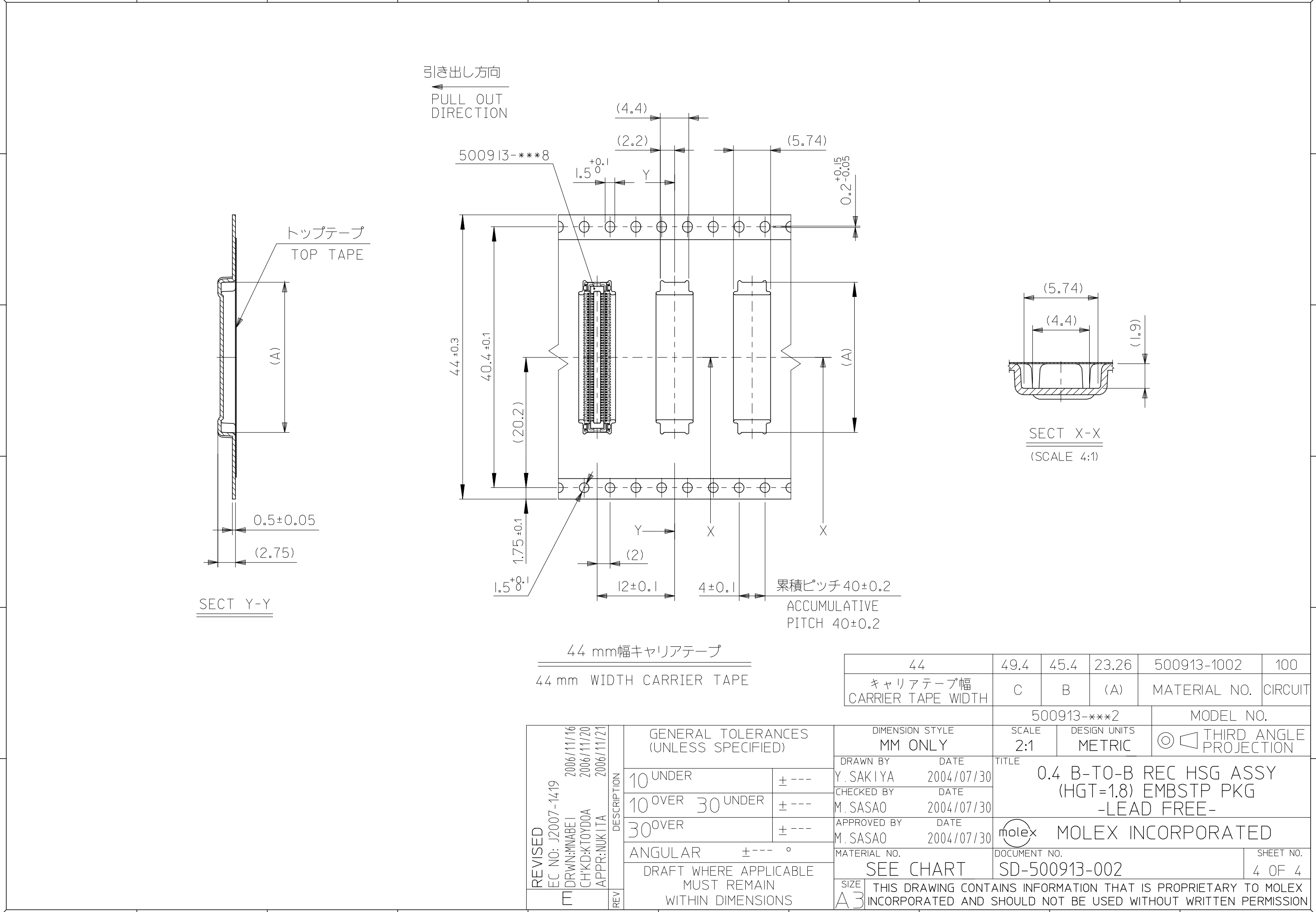
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44 mm幅キャリアテープ
44 mm WIDTH CARRIER TAPE

44		49.4	45.4	23.26	500913-1002	100
キャリアテープ幅 CARRIER TAPE WIDTH		C	B	(A)	MATERIAL NO.	CIRCUIT
		500913-***2			MODEL NO.	
DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC		◎  THIRD ANGLE PROJECTION	
DRAWN BY Y. SAKIYA		TITLE 0.4 B-TO-B REC HSG ASSY (HGT=1.8) EMBSTP PKG -LEAD FREE-				
DATE 2004/07/30						
CHECKED BY M. SASAO		molex MOLEX INCORPORATED				
DATE 2004/07/30						
APPROVED BY M. SASAO		SD-500913-002				
DATE 2004/07/30						
MATERIAL NO. SEE CHART		DOCUMENT NO.				SHEET NO. 4 OF 4
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REVISED EC NO: J2007-1419 DRAWN: MNABEI CHKD: KTOYD0A APPR: NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)	
		10 UNDER	± ---
		10 OVER 30 UNDER	± ---
		30 OVER	± ---
		ANGULAR	± --- °
REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	