

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

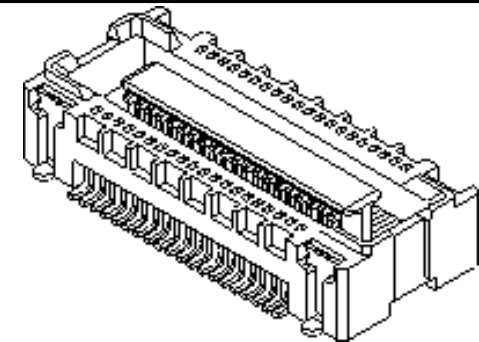
5009130502

Status:

Active

Description:

0.40mm (.016") Pitch SlimStack™ Board-to-Board Receptacle-Header, Surface Mount, Dual Row, Vertical Stacking, Mated Height of 1.80mm (071"), with Solder Tabs, 50 Circuits



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-Free, Tin
Product Name	SlimStack™

Physical

Circuits (Loaded)	50
Circuits (maximum)	50
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-500913-001, RPS-500913-003,
RPS-500913-005

Sales Drawing

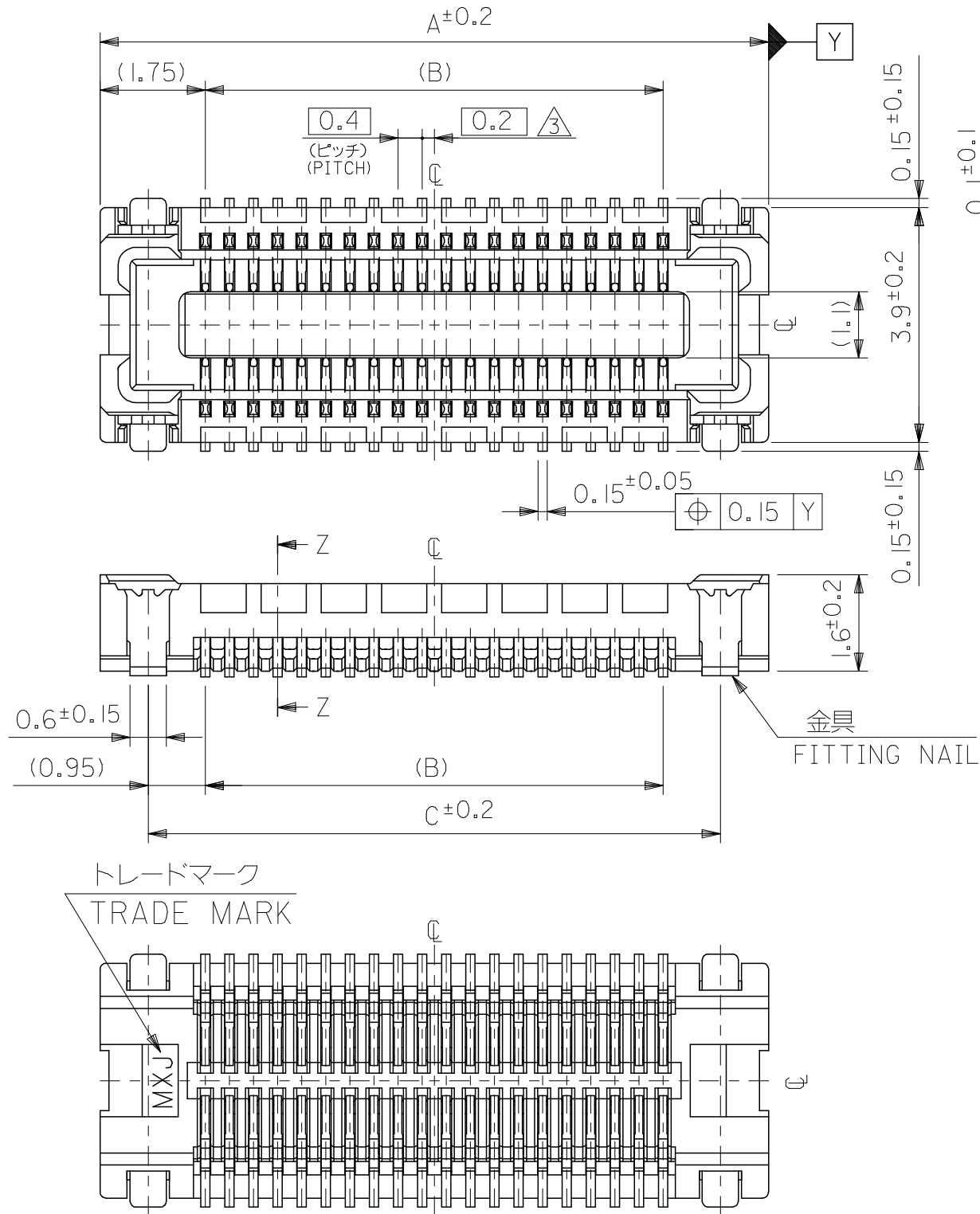
SD-500913-001, SD-500913-002

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

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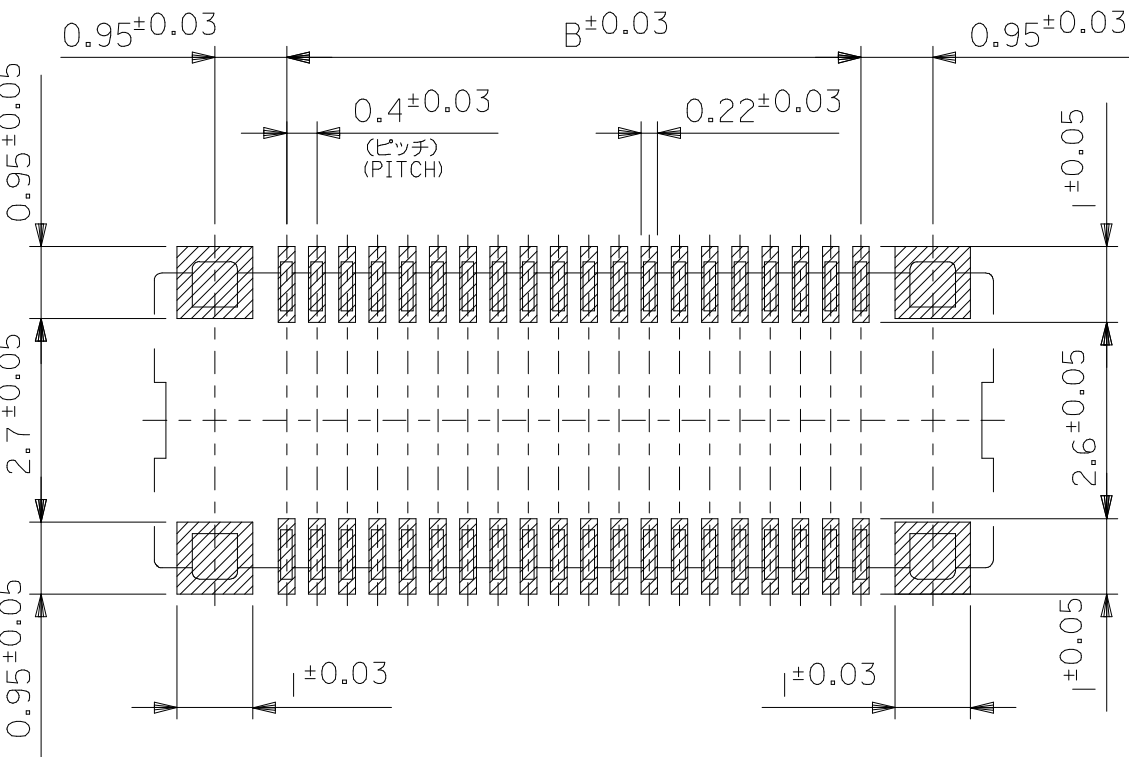
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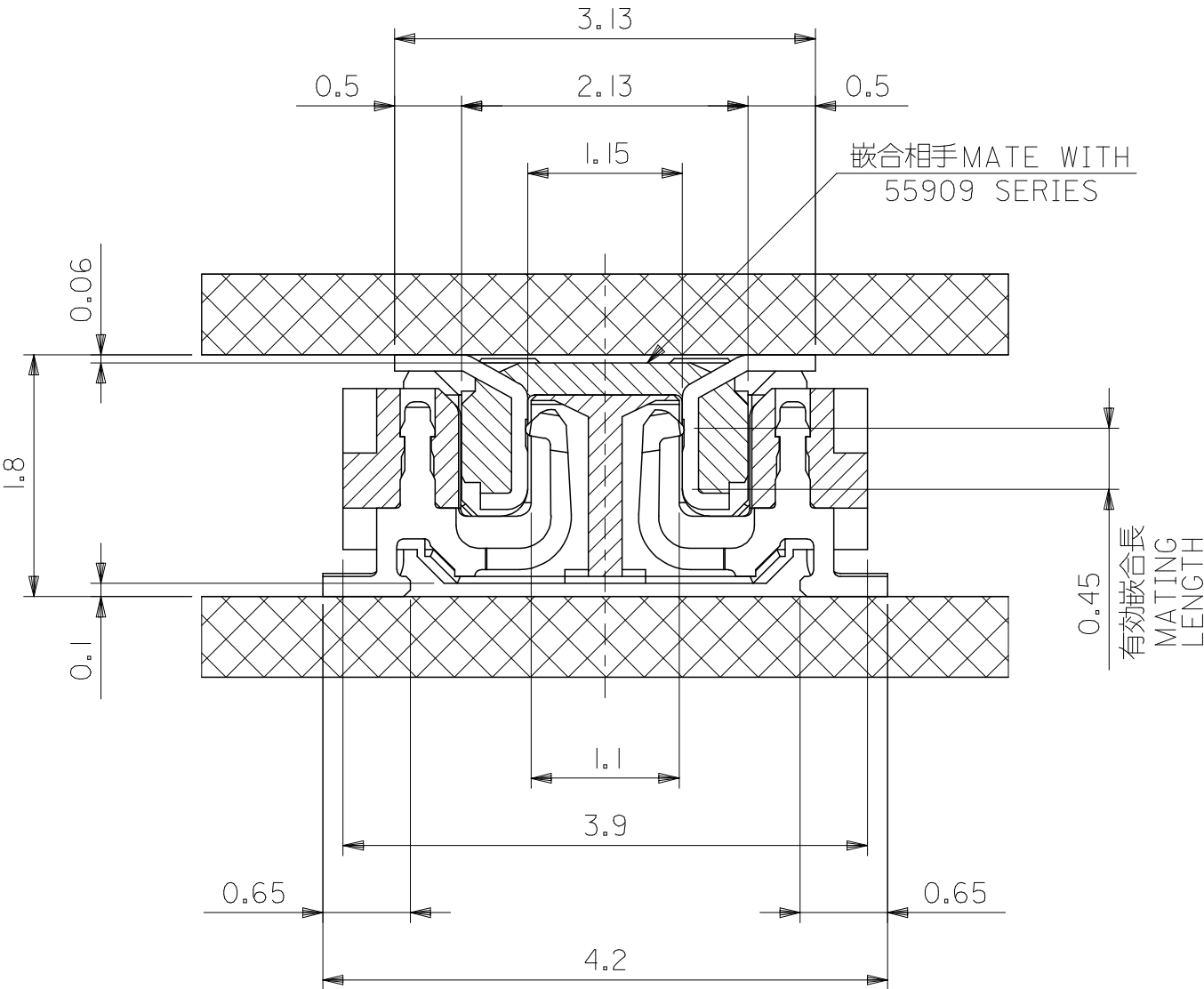
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参考基板レイアウト (マウント面)
P.C.BOARD PATTERN DIMENSION. (REFERENCE)
(MOUNTING AREA)



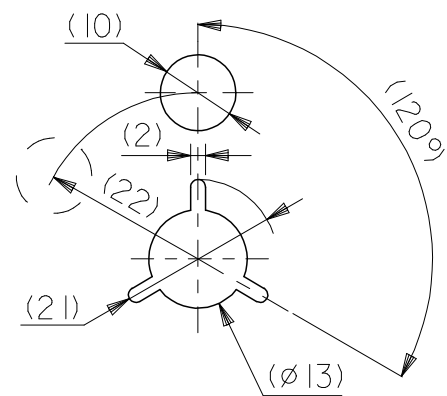
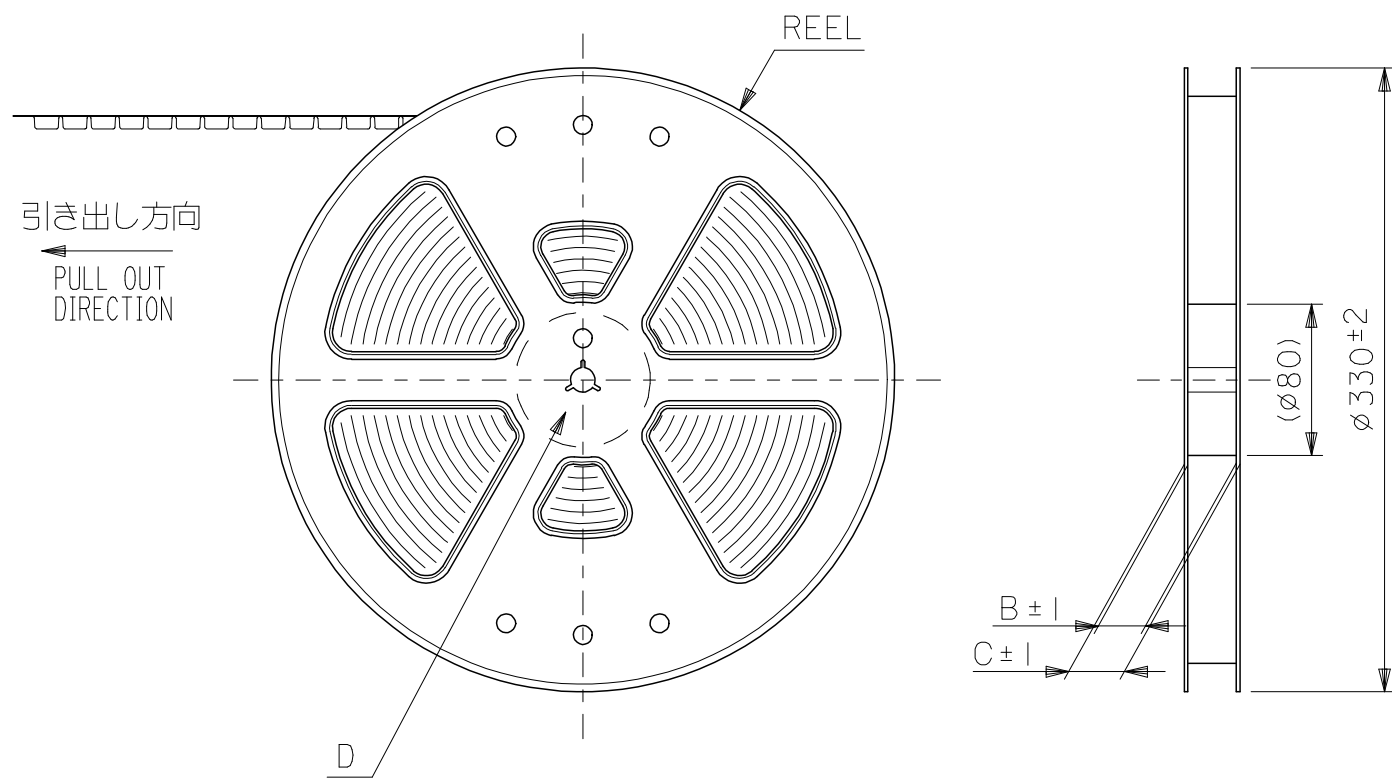
嵌合断面図 (参考)
MATED DRAWING (REFERENCE)

REVISED	EC NO: J2007-1419	DRWN:MNABEI	CH'KD:KTOYODA	APPR:NUKITA	2006/11/16
					2006/11/20
					2006/11/21

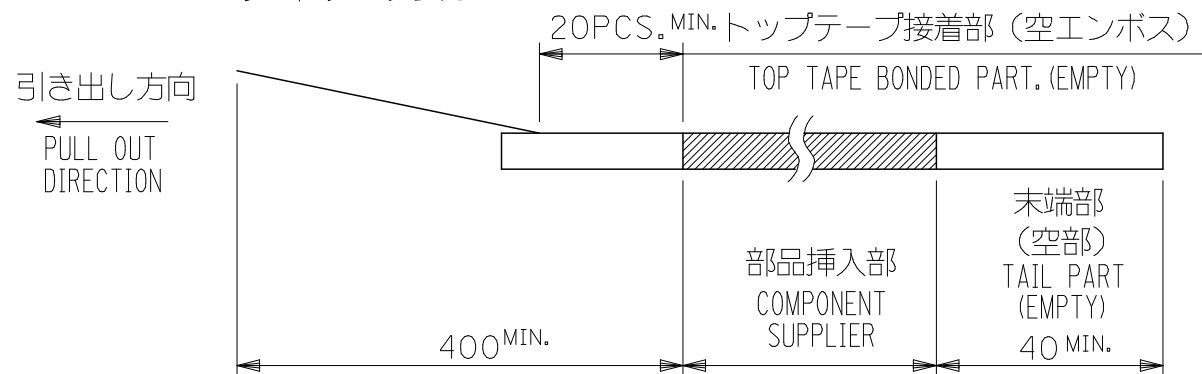
REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE A3	MATERIAL NO. SEE CHART	APPROVED BY M. SASAO	DATE 2004/04/19	DOCUMENT NO. SD-500913-001	SHEET NO. 2 OF 2

MATERIAL NO.	SEE CHART	APPROVED BY M. SASAO	DATE 2004/04/19	DOCUMENT NO. SD-500913-001	SHEET NO. 2 OF 2

MATERIAL NO.	SEE CHART	APPROVED BY M. SASAO	DATE 2004/04/19	DOCUMENT NO. SD-500913-001	SHEET NO. 2 OF 2

DETAIL DNOTES

- 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>

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		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
				MM ONLY		---	METRIC		
		10 UNDER		± ---	DRAWN BY	DATE	TITLE 0.4 B-TO-B REC HSG ASSY (HGT=1.8) EMBSTP PKG -LEAD FREE-		
		10 OVER 30 UNDER		± ---	CHECKED BY	DATE			
		30 OVER		± ---	APPROVED BY	DATE			
		ANGULAR ± --- °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-500913-002		1 OF 4		
REV		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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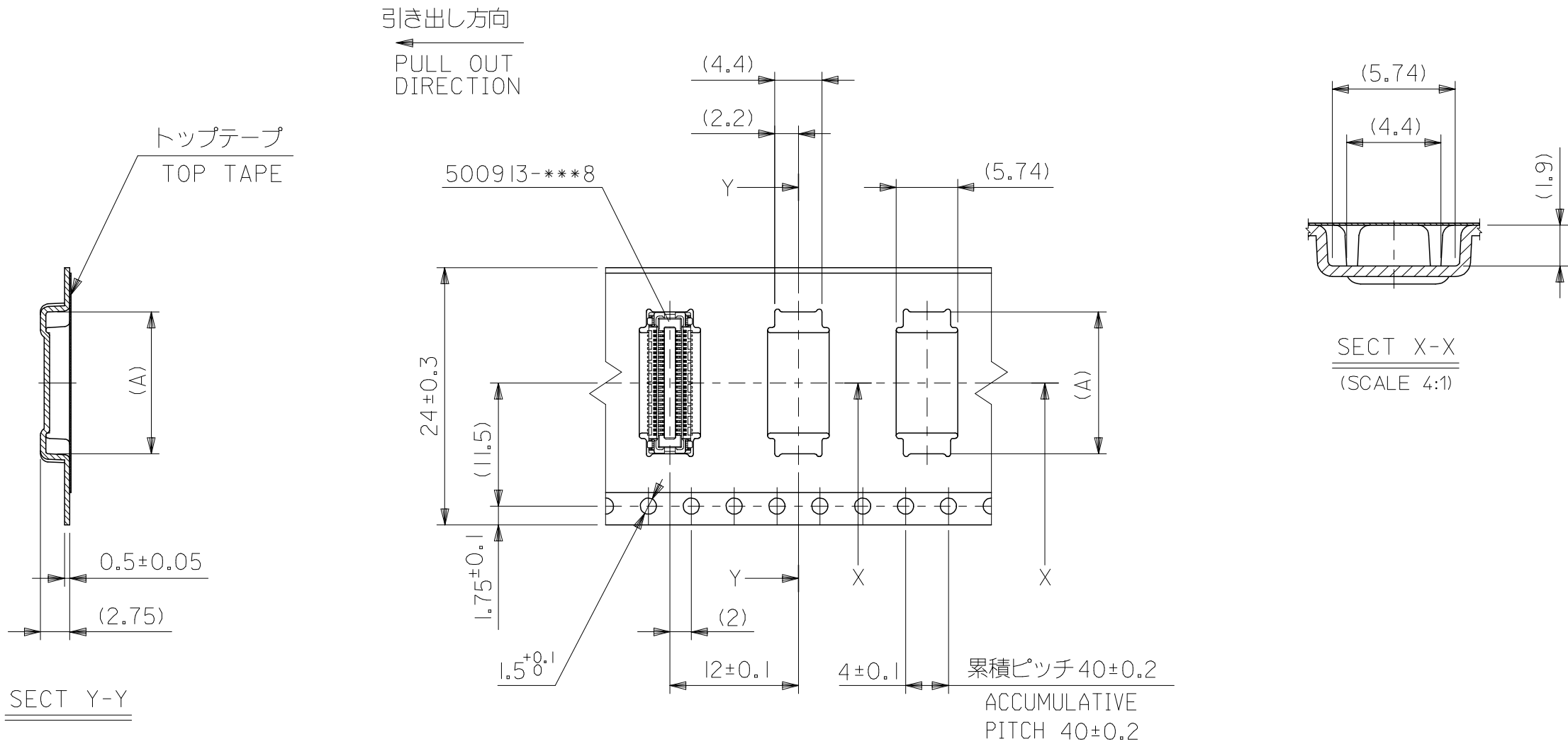
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24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

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 CHKD: KTOYODA 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								
REV		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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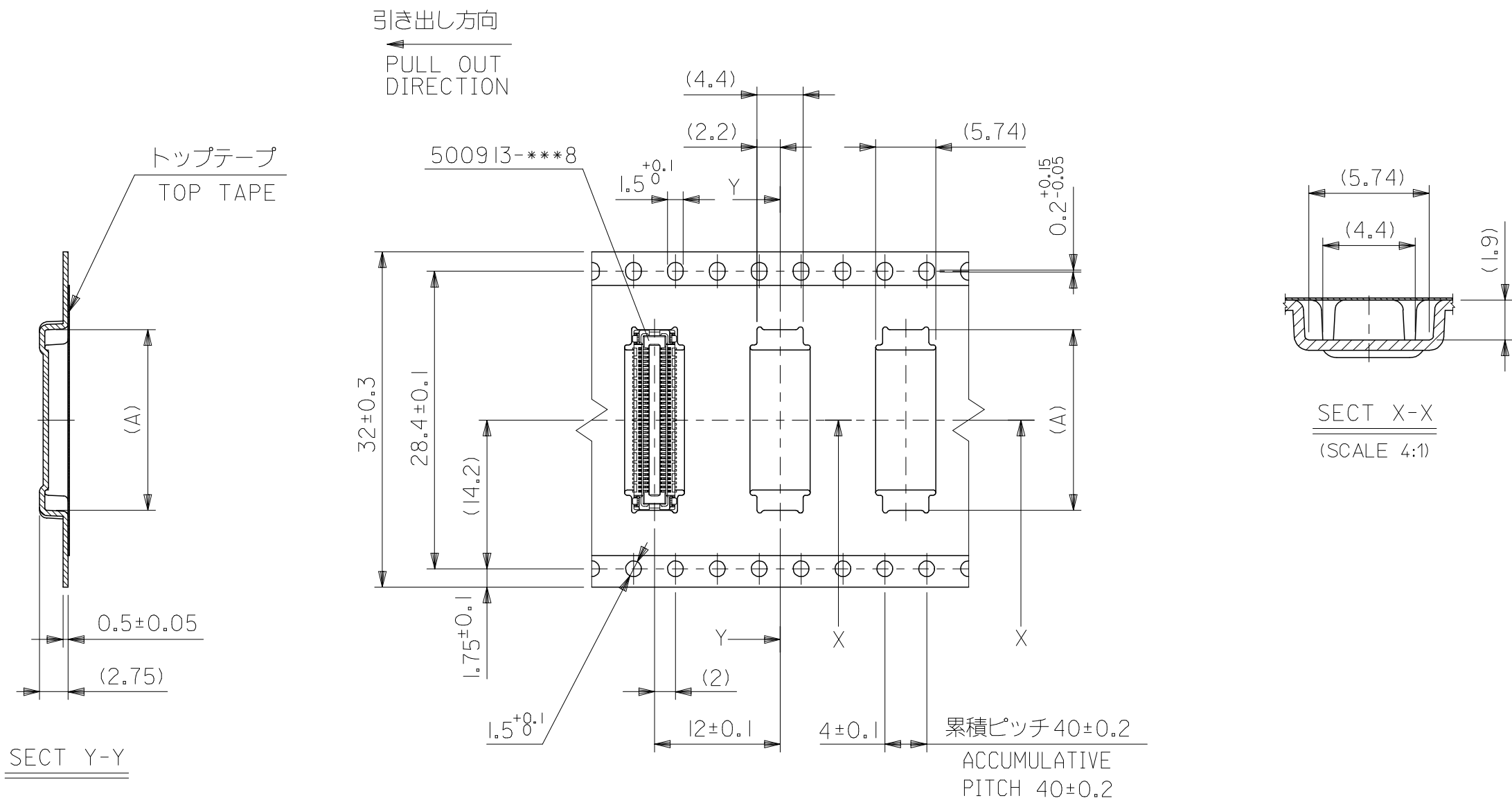
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32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

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 DRWN:MNABEI CHKD:KTOYODA APPR:NUKITA		DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		500913-***2		MODEL NO.	
					MM ONLY		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			10 UNDER		± ---	DRAWN BY	DATE	TITLE	0.4 B-TO-B REC HSG ASSY (HGT=1.8) EMBSTP PKG -LEAD FREE-	
			10 OVER 30 UNDER		± ---	CHECKED BY	DATE			
			30 OVER		± ---	APPROVED BY	DATE			
			ANGULAR ± --- °		M. SASAO	2004/04/19				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
		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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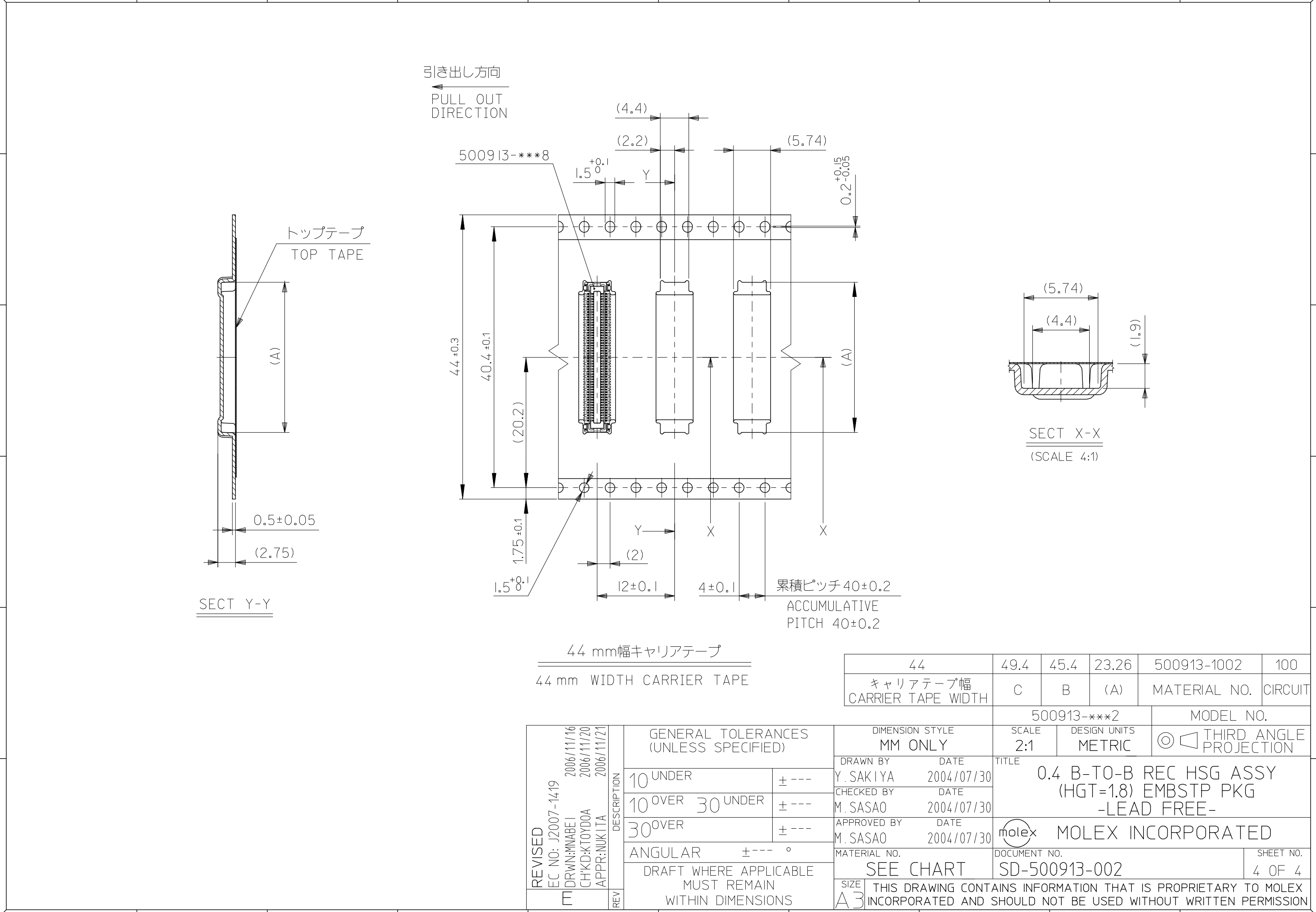
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44 mm幅キャリアテープ
44 mm WIDTH CARRIER TAPE

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						
DATE 2004/07/30						
APPROVED BY M. SASAO		MOLEX MOLEX INCORPORATED				
DATE 2004/07/30						
MATERIAL NO. SEE CHART		DOCUMENT NO. SD-500913-002				SHEET NO. 4 OF 4
SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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	