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Part Number:

5015313210

Status:

Active

Overview:

slimstack_mm016_pitch

Description:

0.40mm (.016") Pitch SlimStack™ Board-to-Board, Plug, SMT, Dual Row, Vertical Stacking, 1.30mm (.051") Stacking Height, With Solder Tabs, 32 Circuits

Documents:

3D Model

Drawing (PDF)

Product Specification PS-501527-001 (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	PCB Headers
Series	501531
Application	Board-to-Board
Overview	slimstack_mm016_pitch
Product Name	SlimStack™
Physical	
Breakaway	No
Circuits (Loaded)	32
Color - Resin	Black
Durability (mating cycles max)	30
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Mated Height (in)	0.051 In
Mated Height (mm)	1.30 mm
Material - Metal	Brass, Phosphor Bronze
Material - Plating Mating	Gold
Number of Rows	2
Orientation	Vertical
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
Polarized to Mating Part	No
Polarized to PCB	No
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 AC (RMS)/DC

Material Info

Reference - Drawing Numbers	
Packaging Specification	SPK-501531-001
Product Specification	PS-501527-001, RPS-501527-001, RPS-501527-002, RPS-501527-004
Sales Drawing	SD-501531-001, SD-501531-002

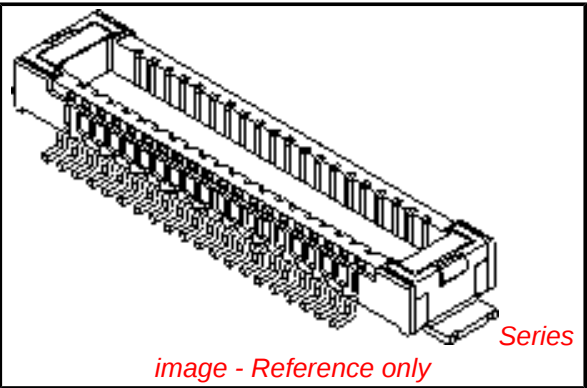


image - Reference only

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

501531Series

Mates With

501527 SlimStack™ Board-to-Board Receptacle

This document was generated on 05/26/2010

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注記 NOTES

1. 使用材料 MATERIAL

ウェハー : 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=0.1)
PIN : BRASS (t=0.1)

金具 : りん青銅 (t=0.12)
FITTING NAIL : PHOSPHOR BRONZE (t=0.12)

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 0.4 MICROMETER 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

半田付け処理 (金・パラジウムコート)
SOLDERABILITY IMPROVEMENT COAT (Au & Pd-Ni COAT)

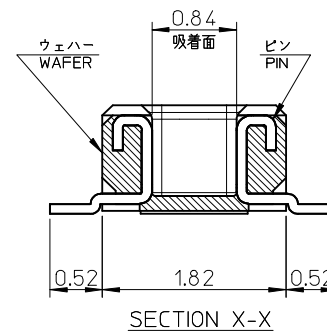
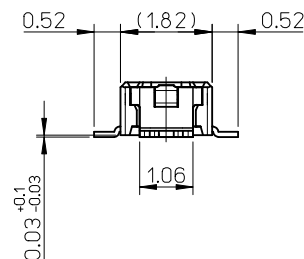
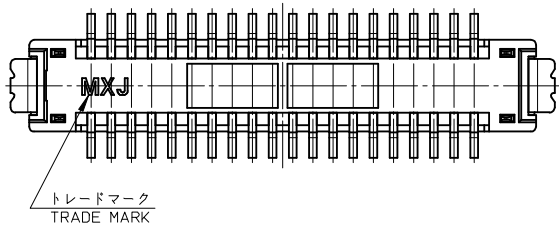
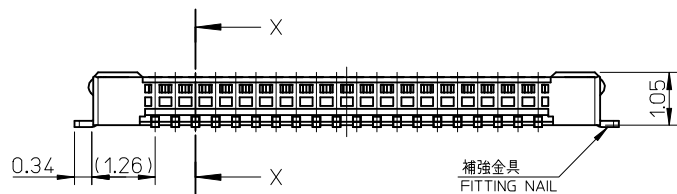
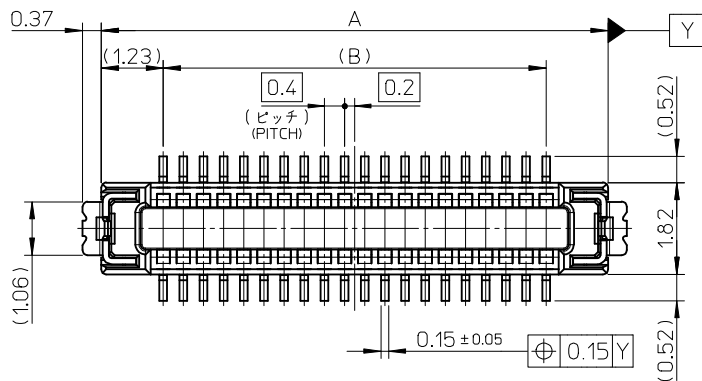
下地メッキ : ニッケルメッキ 1.0 マイクロメートル以上
UNDER PLATING : NICKEL 1.0MICROMETER MINIMUM

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

4. 嵌合相手 : 501527 シリーズ
MATE WITH : 501527 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 0.08MAXIMUM
TAIL AND FITTING NAIL
COPLANARITY TO BE 0.1MAXIMUM



17.6	20.06	501531-0910	501531-0919	90
15.6	18.06	501531-0810	501531-0819	80
9.6	12.06	501531-0510	501531-0519	50
7.6	10.06	501531-0410	501531-0419	40
6.4	8.86	501531-3410	501531-3419	34
6.0	8.46	501531-3210	501531-3219	32
5.6	8.06	501531-0310	501531-0319	30
3.6	6.06	501531-0210	501531-0219	20
B	A	EMBOSSSED TAPE PKG.	MATERIAL No.	CKT
ORDER No.		オーダー番号	MODEL No. : 501531-**19	
SCALE		DESIGN UNITS	THIRD ANGLE PROJECTION	
10:1		METRIC		

REVISED EC NO: J2009-0301 2008/08/27 DRAWN: MWABE1 2008/08/28 CHKD: THARUYAMA 2008/08/28 APPR: NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY RTAKEUCHI	DATE 2005/10/25	TITLE 0.4 B-TO-B CONN. HGT=1.3 PLUG ASSY [OVERMOLD] -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	CHECKED BY THIRATA	DATE 2005/10/25					
		30 OVER	± 0.3	APPROVED BY MSASAO	DATE 2005/10/25					
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO. MOLEX MOLEX INCORPORATED				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-501531-001					
	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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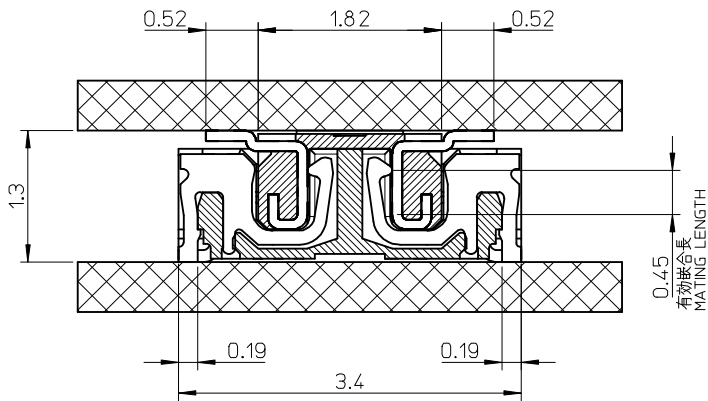
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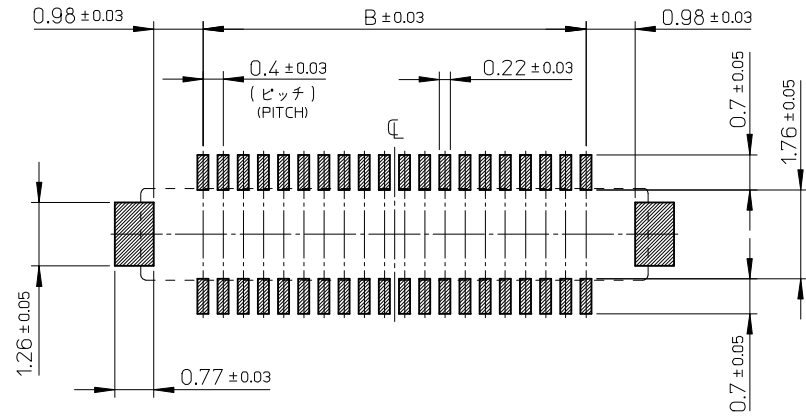
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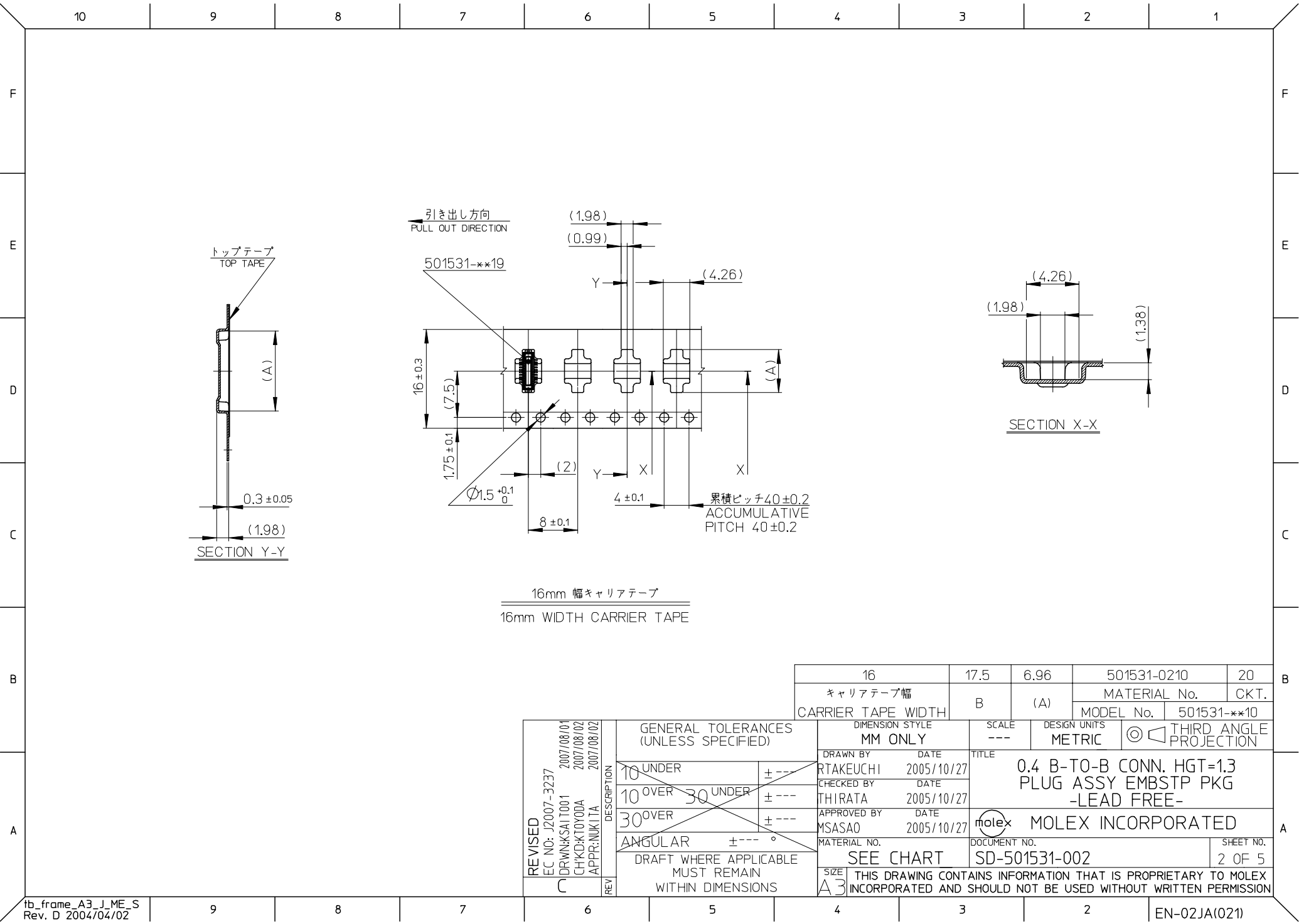
嵌合断面図 (参考)
MATED DRAWING (REFERENCE)



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 DRWN:WABEI CHKD:THIRUYAMA APPR:NUKITA	2008/08/27 2008/08/28 2008/08/28	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
				10 UNDER	±0.2	DRAWN BY RTAKEUCHI	DATE 2005/10/25	TITLE 0.4 B-TO-B CONN. HGT=1.3 PLUG ASSY [OVERMOLD] -LEAD FREE-				
				10 OVER 30 UNDER	±0.25	CHECKED BY THIRATA	DATE 2005/10/25					
				30 OVER	±0.3	APPROVED BY MSASAO	DATE 2005/10/25				MOLEX INCORPORATED	
				ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-501531-001			2 OF 2	
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

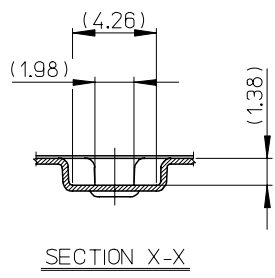
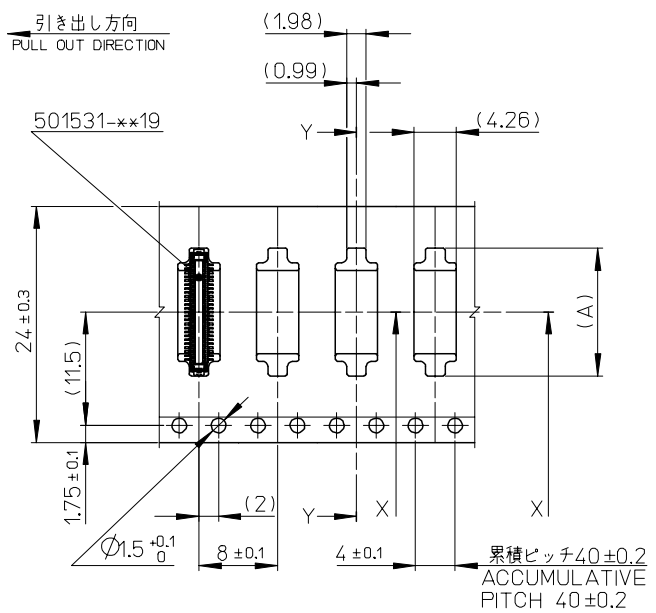
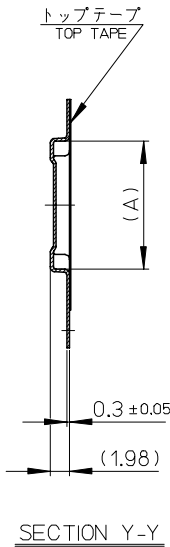
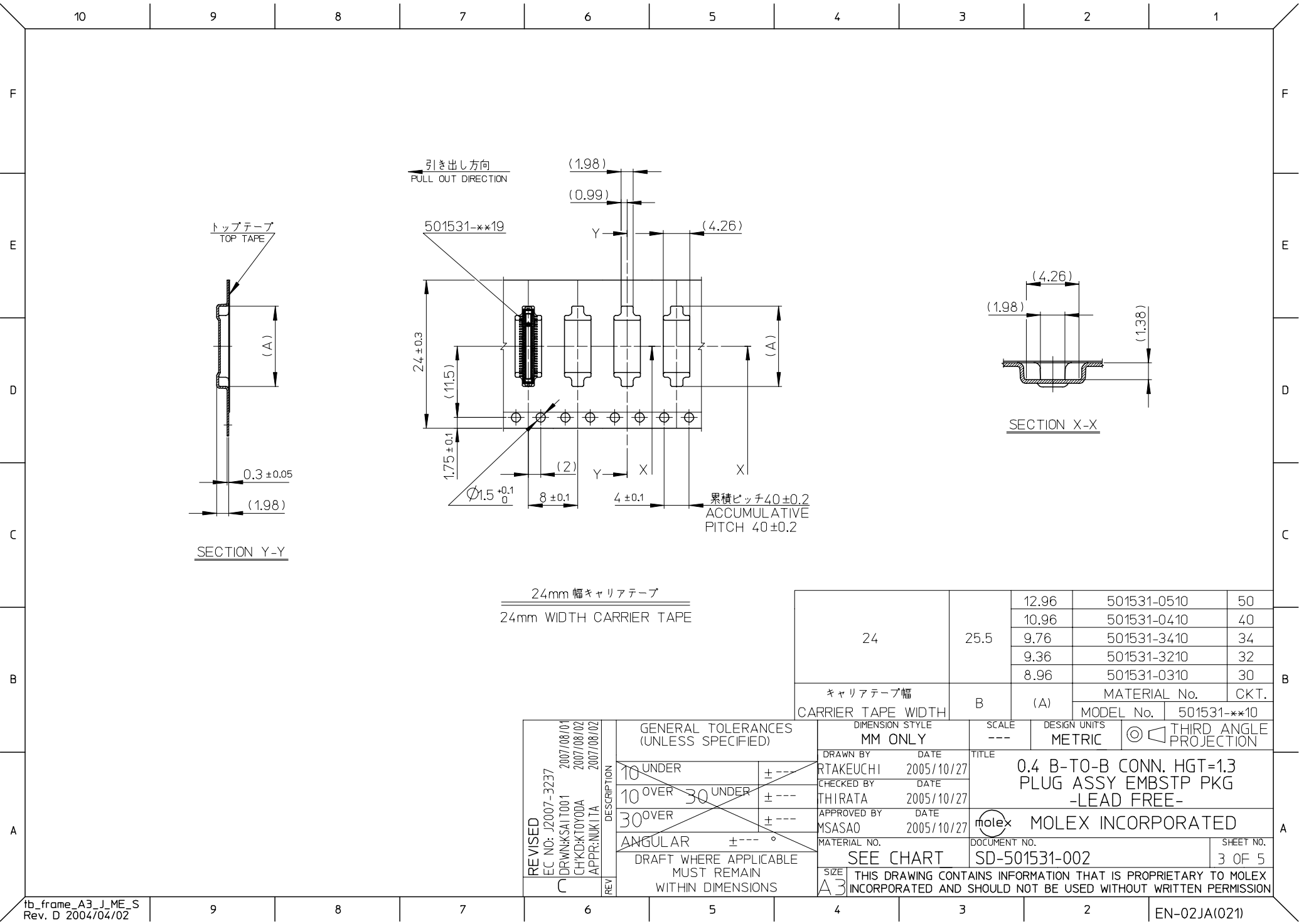
EN-02JA(021)



B	16		17.5		6.96		501531-0210		20		
	キャリアテープ幅		B		(A)		MATERIAL No.		CKT.		
	CARRIER TAPE WIDTH						MODEL No.		501531-**10		
	DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION				
	MM ONLY		---		METRIC						
	DRAWN BY		DATE		TITLE		0.4 B-TO-B CONN. HGT=1.3 PLUG ASSY EMBSTP PKG -LEAD FREE-				
	RTAKEUCHI		2005/10/27								
	CHECKED BY		DATE								
	THIRATA		2005/10/27								
	APPROVED BY		DATE		MOLEX INCORPORATED						
MSASAO		2005/10/27									
MATERIAL NO.		DOCUMENT NO.				SHEET NO.					
SEE CHART		SD-501531-002				2 OF 5					
SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
A3											

REVISED		EC NO: J2007-3237		2007/08/01		2007/08/02		2007/08/02		2007/08/02	
C		DRW:KSAI1001		CHYDK:TOYODA		APPR:NUKITA					
REV		DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		10 UNDER		±---			
						10 OVER 30 UNDER		±---			
						30 OVER		±---			
						ANGULAR		±---		°	
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					

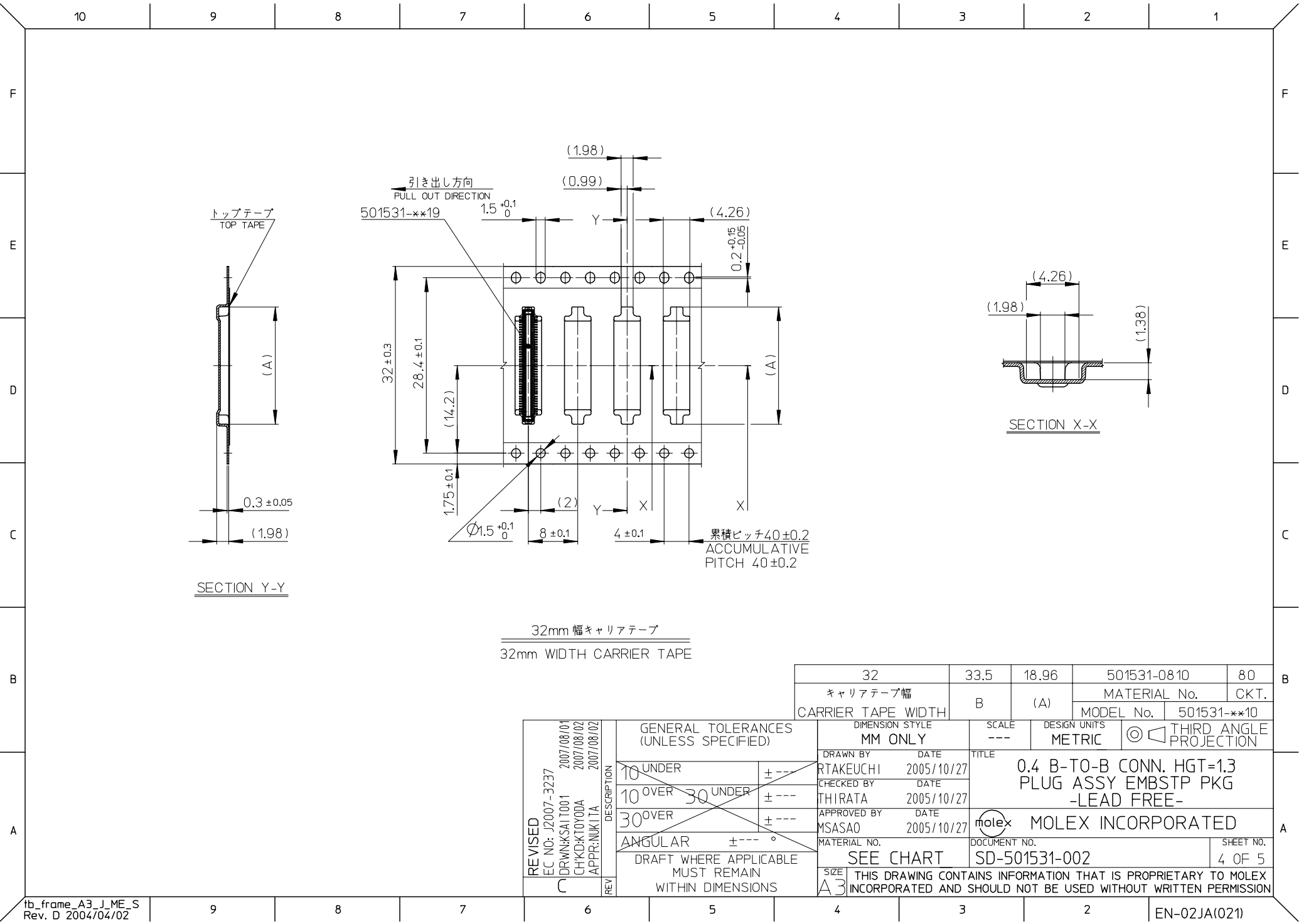
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Rev. D 2004/04/02																			



24mm 幅キャリアテープ
24mm WIDTH CARRIER TAPE

24	25.5	12.96	501531-0510		50
		10.96	501531-0410		40
		9.76	501531-3410		34
		9.36	501531-3210		32
		8.96	501531-0310		30
キャリアテープ幅 CARRIER TAPE WIDTH	B	(A)	MATERIAL No.		CKT.
			MODEL No.	501531-**10	

REVISED EC NO: J2007-3237 DRWNG:SAI T001 CHKD:KTOY00A APPR:NUKITA	DESCRIPTION 2007/08/01 2007/08/02 2007/08/02	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		10 UNDER	± ---	DRAWN BY RTAKEUCHI	DATE 2005/10/27	TITLE 0.4 B-TO-B CONN. HGT=1.3 PLUG ASSY EMBSTP PKG -LEAD FREE-					
		10 OVER 30 UNDER	± ---	CHECKED BY THIRATA	DATE 2005/10/27						
		30 OVER	± ---	APPROVED BY MSASAO	DATE 2005/10/27	MOLEX INCORPORATED					
		ANGULAR	± --- °	MATERIAL NO.							DOCUMENT NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-501531-002				3 OF 5	
		REV		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

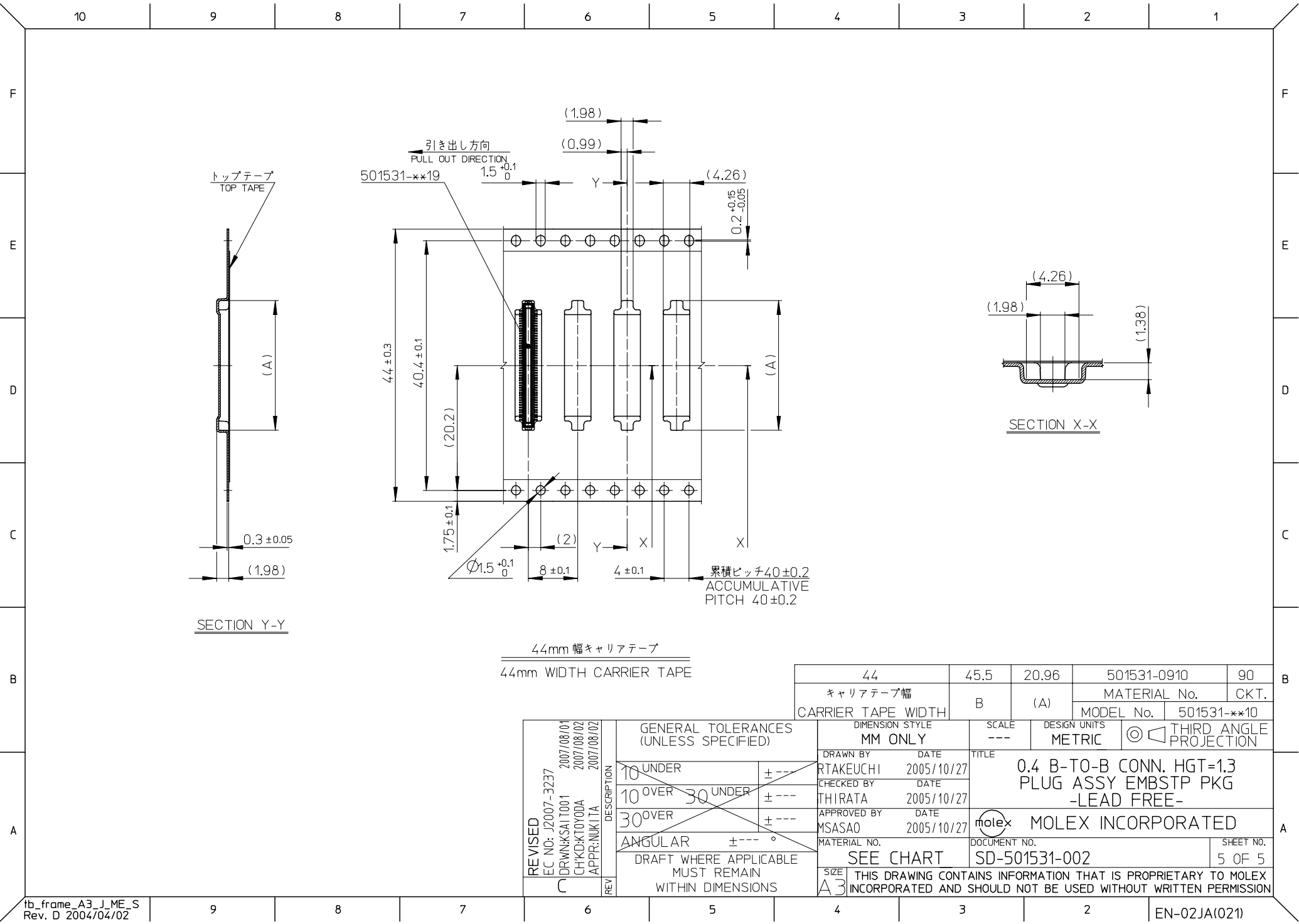


SECTION Y-Y

SECTION X-X

32mm 幅キャリアテープ
32mm WIDTH CARRIER TAPE

32	33.5	18.96	501531-0810	80
キャリアテープ幅 CARRIER TAPE WIDTH	B	(A)	MATERIAL No.	CKT.
			MODEL No.	501531-xx10
DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
DRAWN BY RTAKEUCHI	DATE 2005/10/27	TITLE 0.4 B-TO-B CONN. HGT=1.3 PLUG ASSY EMBSTP PKG -LEAD FREE-		
CHECKED BY THIRATA	DATE 2005/10/27			
APPROVED BY MSASAO	DATE 2005/10/27	MOLEX INCORPORATED		
MATERIAL NO.	DOCUMENT NO. SD-501531-002			SHEET NO. 4 OF 5
SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



SECTION Y-Y

SECTION X-X

44mm 幅キャリアテープ
44mm WIDTH CARRIER TAPE

44	45.5	20.96	501531-0910	90
キャリアテープ幅 CARRIER TAPE WIDTH		B	(A)	MODEL No. 501531-xx10

REVISED EC NO: J2007-3237 DRW:KSAI T001 CHK:KTOY00A APPR:NUKITA C	DESCRIPTION 2007/08/01 2007/08/02 2007/08/02	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		10 UNDER	± ---	DRAWN BY RTAKEUCHI	DATE 2005/10/27	TITLE 0.4 B-TO-B CONN. HGT=1.3 PLUG ASSY EMBSTP PKG -LEAD FREE-			
		10 OVER 30 UNDER	± ---	CHECKED BY THIRATA	DATE 2005/10/27				
		30 OVER	± ---	APPROVED BY MSASAO	DATE 2005/10/27				
		ANGULAR	± --- °	MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-501531-002		5 OF 5	
		REV		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			