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Part Number: [5010170508](#)
Status: **Active**
Description: 0.40mm (.016") Pitch Board-to-Board Receptacle, SMT, Dual Row, Vertical, 4.00mm (.157") Stacking Height, 50 Circuits

Documents:

[3D Model](#) [Product Specification PS-54684-008 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family PCB Headers
Series [501017](#)
Application Board-to-Board
Product Name N/A

Physical

Breakaway No
Circuits (Loaded) 50
Color - Resin Brown
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 None
Mated Height (in) 0.157 In
Mated Height (mm) 4.00 mm
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Gold
Number of Rows 2
Orientation Vertical
PCB Locator No
PCB Retention None
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
Polarized to Mating Part No
Polarized to PCB No
Stackable No
Temperature Range - Operating -25°C to +105°C
Termination Interface: Style Surface Mount

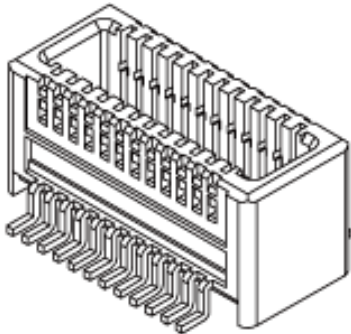
Electrical

Current - Maximum per Contact 0.3A
Voltage - Maximum 30V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Product Specification PS-54684-008, RPS-54684-020
Sales Drawing SD-501017-001, SD-501017-002



*Series
image - Reference only*

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**Halogen-Free
Status**

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
[501017Series](#)

Mates With
[54684 PCB Receptacle](#)

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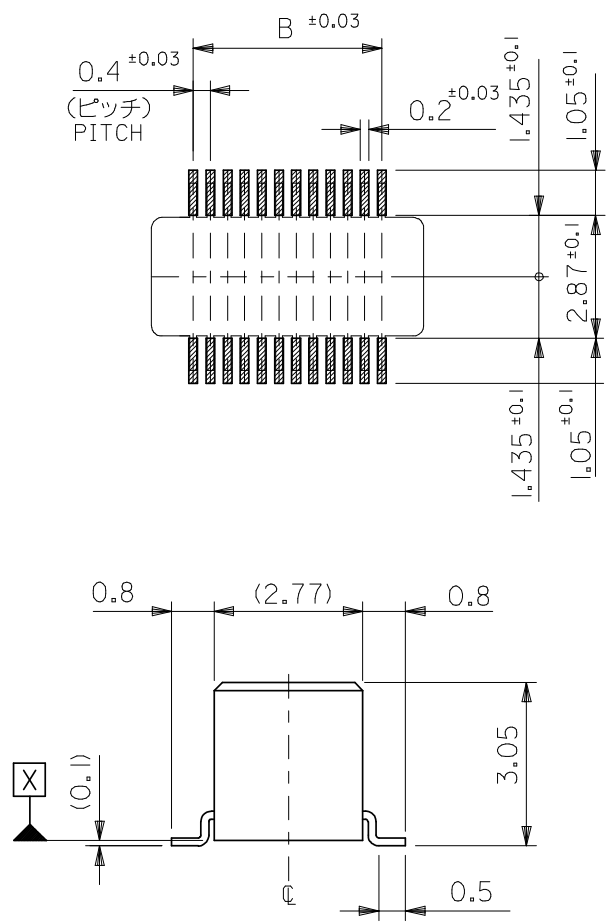
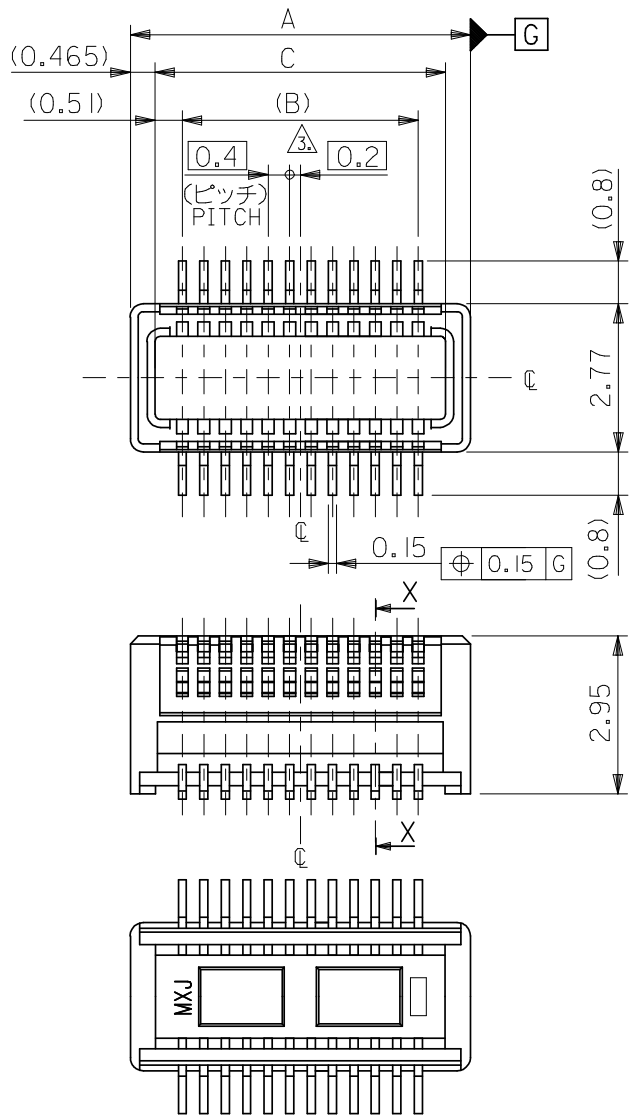
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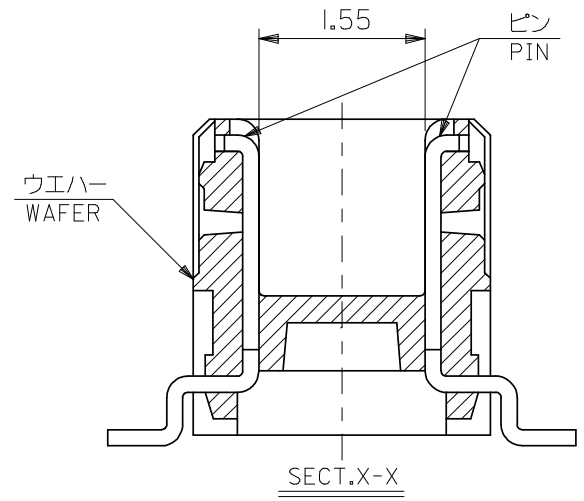
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参考基板レイアウト (マウント面)
RECOMMENDED P.C.BOARD
PATTERN DIMENSION (REF.)
(MOUNTING AREA)



20.64	19.6	21.55	501017-1007	100
16.63	15.6	17.55	501017-0807	80
12.64	11.6	13.55	501017-0607	60
10.64	9.6	11.55	501017-0507	50
5.42	4.4	6.35	501017-0247	24
C	B	A	MATERIAL NO.	CIRCUIT

MATERIAL
材料

注記参照
SEE NOTES

REVISED
EC NO: J2008-2284
DRWN:YMAEDA 2007/12/04
CHKD:NUKITA 2007/12/06
APPR:NUKITA 2007/12/06

DESCRIPTION

GENERAL TOLERANCES
(UNLESS SPECIFIED)

10 UNDER ±0.2
10 OVER 30 UNDER ±0.25
30 OVER ±0.3
ANGULAR ±--- °
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY DATE
Y. NUKANO 2004/06/05
CHECKED BY DATE
T. HIRATA 2004/06/05
APPROVED BY DATE
M. SASAO 2004/06/05
MATERIAL NO.
SEE TABLE
SIZE
A3

SCALE

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

0.4MM B-TO-B CONN
NO BOSS PLUG ASSY
(HGT=4MM)

MOLEX INCORPORATED

SD-501017-001

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INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

MODEL NO. 501017-****7

1 OF 2

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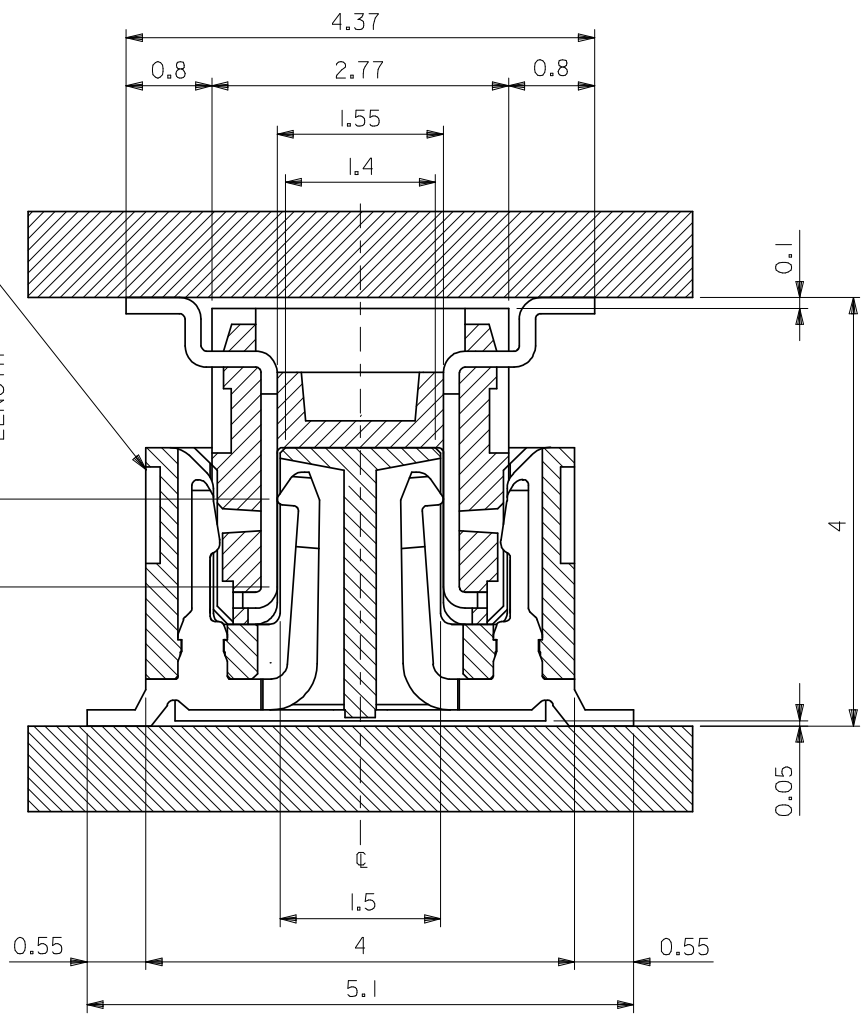
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嵌合相手
MATE WITH
54684-***7

有効嵌合長
MATING
LENGTH
0.9



注記 NOTES:

1. 使用材料 MATERIAL
ウエハー:液晶ポリマー ガラス充填 UL94V-0 茶色
WAFER:LIQUID CRYSTAL POLYMER
GLASS FILLED UL94V-0
COLOR BROWN
ピン:リン青銅 (t=0.15)
PIN:PHOSPHOR BRONZE (t=0.15)
2. メッキ仕様 PLATING
金メッキ 0.25 マイクロメートル以上 (コンタクト部)
GOLD 0.25MICROMETER 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
3. (全極数/2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT/2) = EVEN.
4. 嵌合相手: 54684 シリーズ
MATE WITH: 54684 SERIES.
5. テール平坦度は、0.10 MAX.
TAIL COPLANARITY TO BE 0.10 MAX.
又、テール半田付け面の位置はウエハーの底面 [X] に対し
上方向に0、下方向に0.15 MAX. とする。
MISALIGNMENT OF SOLDER TAILS FROM [X]
: UPPER DIRECTION 0
: LOWER DIRECTION 0.15 MAX.

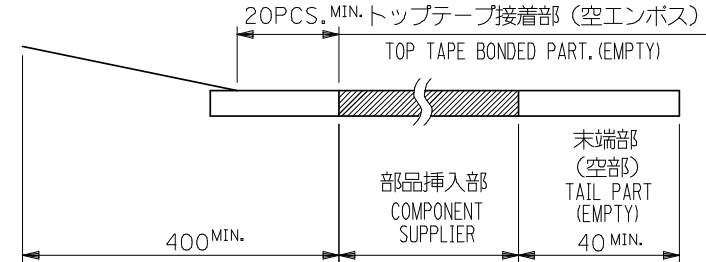
嵌合断面図 (参考)
MATED DRAWING (REF.)

MATERIAL 材料	SHEET 1 OF 2 参照 REFER TO SHEET 1 OF 2		REVISED EC NO: J2008-2284 DRWN:YMAEDA CHKD:NUKITA APPR:NUKITA	2007/12/04 2007/12/06 2007/12/06	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
						10 UNDER	±0.2	DRAWN BY Y. NUKANO		DATE 2004/06/05		TITLE 0.4MM B-TO-B CONN NO BOSS PLUG ASSY (HGT=4MM)			
						10 OVER 30 UNDER	±0.25	CHECKED BY T. HIRATA		DATE 2004/06/05					
						30 OVER	±0.3	APPROVED BY M. SASAO		DATE 2004/06/05		MOLEX MOLEX INCORPORATED			
						ANGULAR ± --- °		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-501017-001					
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
						SIZE A3									

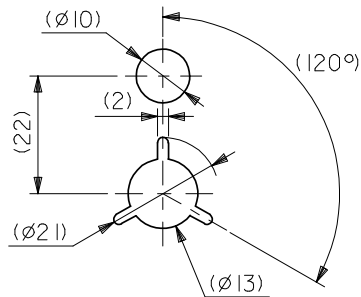
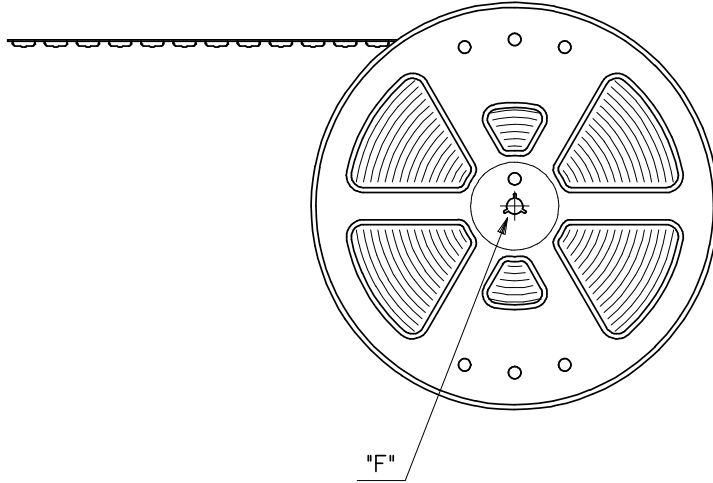
NOTES

- 製品詳細寸法については図面 SD-501017-001 を参照下さい。
RE DETAILED DIMENSION, SEE SD-501017-001
- 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
20PCS. MIN. トップテープ接着部 (空エンボス)
TOP TAPE BONDED PART. (EMPTY)
部品挿入部
COMPONENT
SUPPLIER
400 MIN.
末端部
(空部)
TAIL PART
(EMPTY)
40 MIN.
- トップテープの剥離強度：「JES-59」参照
PEELING OFF FORCE OF TOPTAPE：SEE「JES-59」
- シール位置はトップテープ両端から0.5mm以上内側にて行い、
且つエンボスポケット面にかからない位置とする。
SEAL POSITION IS 0.5mm OR MORE INNER SIDE FROM TOP TAPE BOTH ENDS
AND WHICH IS NOT TAKE ON THE EMBOSSED POKET SIDE.
- 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>

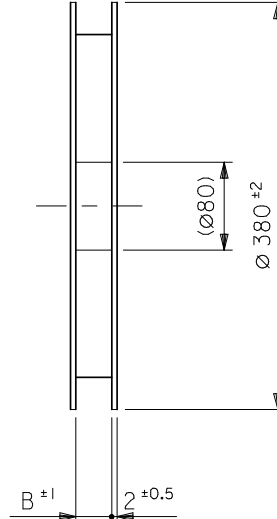
引き出し方向
PULL OUT
DIRECTION



引き出し方向
PULL OUT
DIRECTION



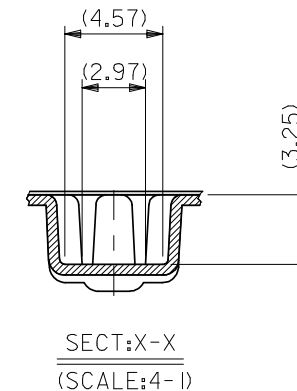
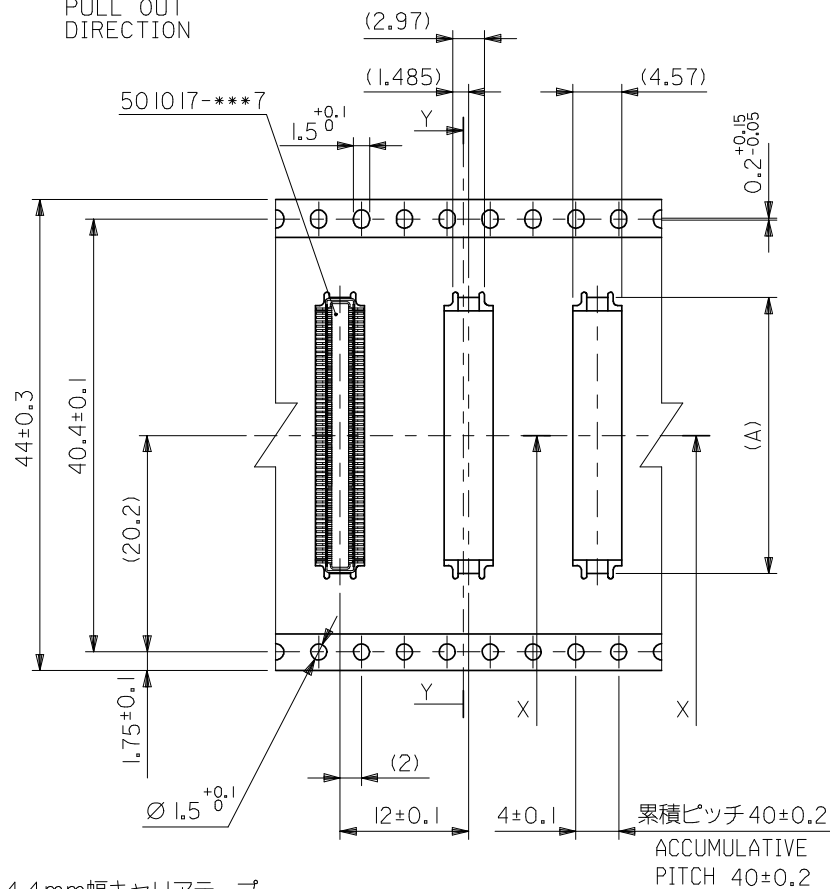
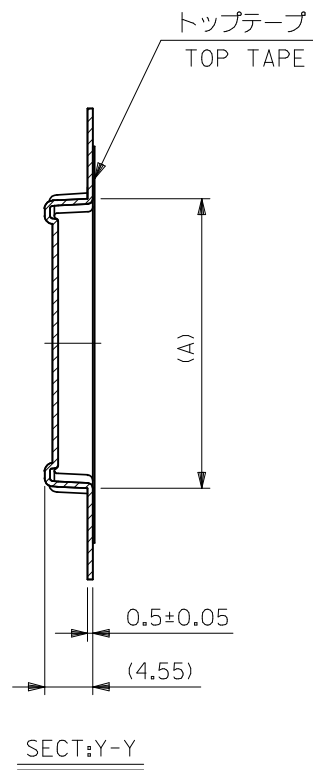
DETAIL "F"



REVISED	EC NO: J2008-2284	2007/12/04	DRWN:YMAEDA	2007/12/06	CHKD:NUKITA	2007/12/06	APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION				
									10 UNDER		±0.2	DRAWN BY YNUKANOBU		DATE 2004/06/05		TITLE EMBOSSSED TAPE PACKAGE FOR 501017-***7					
									10 OVER 30 UNDER		±0.25	CHECKED BY THIRATA		DATE 2004/06/05							
									30 OVER		±0.3	APPROVED BY MSASAO		DATE 2004/06/05							
									ANGULAR		±3 °	MATERIAL NO.		DOCUMENT NO.		SHEET NO.					
D	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-501017-002		1 OF 4													
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			

10 9 8 7 6 5 4 3 2 1

引き出し方向
PULL OUT
DIRECTION



44mm幅キャリアテープ
44mm WIDTH CARRIER TAPE

44	45.5	21.75	501017-1008	100
キャリアテープ幅 CARRIER TAPE WIDTH	B	(A)	MATERIAL NO.	極数 CKT.

MODEL NO. 501017-***8

REVISED EC NO: J2008-2284 DRWN:YMAEDA 2007/12/04 CHKD:NUKITA 2007/12/06 APPR:NUKITA 2007/12/06 D	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY YNUKANOBU	DATE 2004/06/05	TITLE EMBOSSED TAPE PACKAGE FOR 501017-***7				
		10 OVER 30 UNDER	± 0.25	CHECKED BY THIRATA	DATE 2004/06/05					
		30 OVER	± 0.3	APPROVED BY MSASAO	DATE 2004/06/05	molex MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-501017-002		2 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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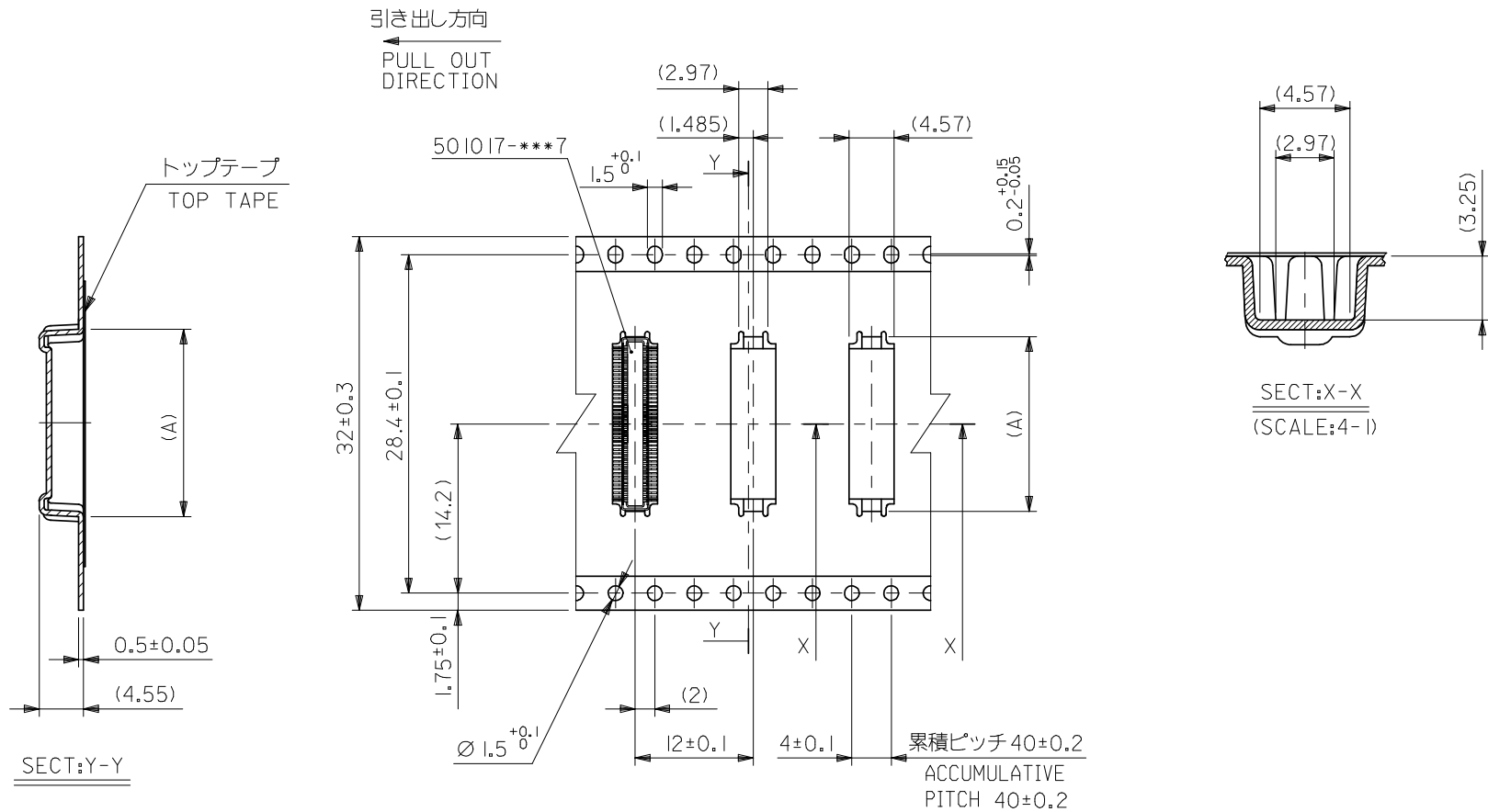
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32 mm幅キャリアテープ
32 mm WIDTH CARRIER TAPE

32	33.5	17.75	501017-0808	80
		13.75	501017-0608	60
		11.75	501017-0508	50
キャリアテープ幅 CARRIER TAPE WIDTH	B	(A)	MATERIAL NO.	極数 CKT.

MODEL NO. 501017-***8

REVISED EC NO: J2008-2284 DRWN:YMAEDA 2007/12/04 CHK'D:NUKITA 2007/12/06 APPR:NUKITA 2007/12/06 D	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
				MM ONLY		---	METRIC			
		10 UNDER	± 0.2	DRAWN BY	DATE	TITLE EMBOSSSED TAPE PACKAGE FOR 501017-***7				
		10 OVER 30 UNDER	± 0.25	CHECKED BY	DATE					
		30 OVER	± 0.3	APPROVED BY	DATE	MOLEX INCORPORATED				
		ANGULAR	±3 °	MSASAO	2004/06/05					
REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.		SEE TABLE		SD-501017-002		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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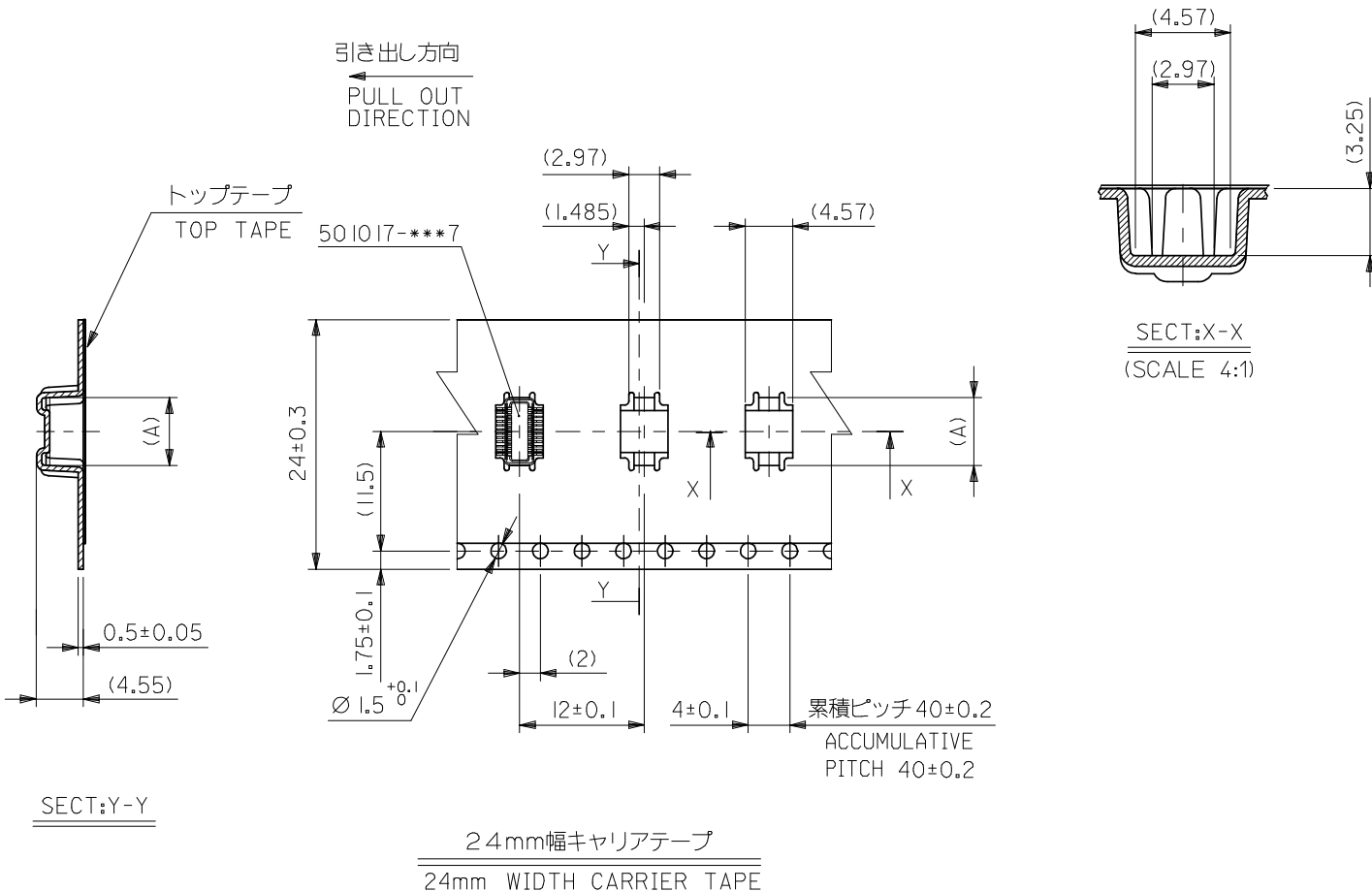
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24	25.5	6.55	501017-0248	24
キャリアテープ幅 CARRIER TAPE WIDTH	B	A	MATERIAL NO.	極数 CKT.

MODEL NO. 501017-***8

REVISED EC NO: J2008-2284 DRWN:YMAEDA CHKD:NUKITA APPR:NUKITA REV D	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY YNUKANOB	DATE 2004/06/05	TITLE EMBOSSD TAPE PACKAGE FOR 501017-***7				
		10 OVER 30 UNDER	±0.25	CHECKED BY THIRATA	DATE 2004/06/05					
		30 OVER	±0.3	APPROVED BY MSASAO	DATE 2004/06/05	MOLEX INCORPORATED DOCUMENT NO. SD-501017-002 SHEET NO. 4 OF 4				
		ANGULAR	±3 °	MATERIAL NO. SEE TABLE						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3					

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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