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Part Number:

0533980571

Status:

Active

Overview:

[picoblade](#)

Description:

1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Vertical, Lead-free, 5 Circuits

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-51021-024 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

UL

E29179

General

Product Family

Series

Application

Overview

Product Name

PCB Headers

53398

Wire-to-Board

[picoblade](#)

PicoBlade™

Physical

Breakaway

Circuits (Loaded)

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Flammability

Glow-Wire Compliant

Guide to Mating Part

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

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Polarized to Mating Part

Polarized to PCB

Shrouded

Stackable

Temperature Range - Operating

Termination Interface: Style

No

5

Natural

30

No

94V-0

No

No

Yes

0.224 In

5.70 mm

Phosphor Bronze

Tin

Tin

Nylon

1

Vertical

0.024 In

0.60 mm

No

Yes

Embossed Tape on Reel

0.049 In

1.25 mm

Yes

Yes

Partial

No

-40°C to +85°C

Surface Mount

Electrical

Current - Maximum per Contact

Voltage - Maximum

1A

125V

Material Info

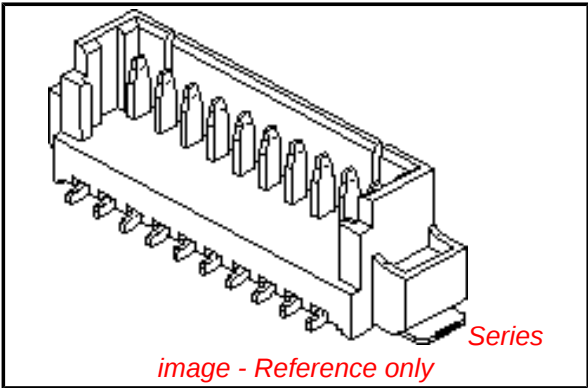


image - Reference only

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Halogen-Free

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

53398Series

Mates With

51021 PicoBlade™ Wire-to-Wire and Wire-to-Board Housing

Reference - Drawing Numbers

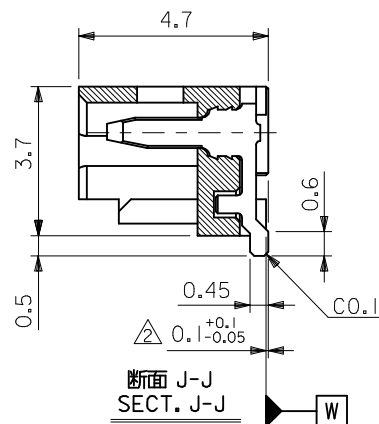
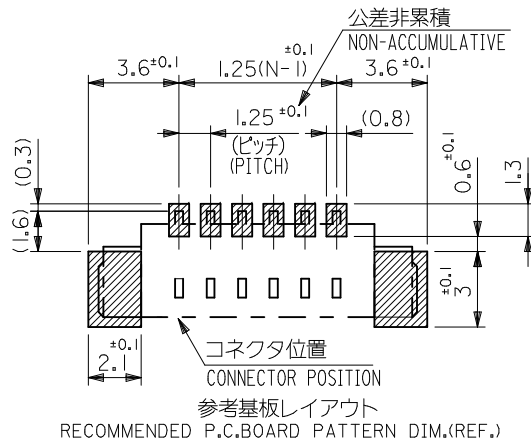
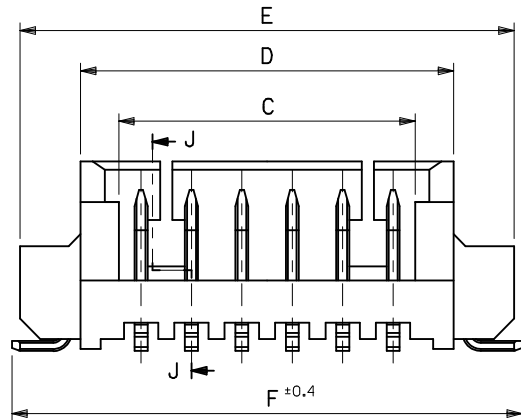
Packaging Specification
Product Specification

SPK-53398-001, SPK-53398-002
PS-51021-024, RPS-51021-038, RPS-51021-039,
RPS-51021-040, RPS-51021-043, RPS-51021-045,
RPS-51021-046, RPS-51021-047, RPS-51021-051,
RPS-51021-053, RPS-51021-057, RPS-51021-064,
RPS-51021-065, RPS-51021-067, RPS-51021-068,
RPS-51021-074, RPS-51021-077, RPS-51021-081,
RPS-51021-085, RPS-51021-086, RPS-51021-091,
RPS-51021-092, RPS-51021-097, RPS-51021-098,
RPS-51021-099, RPS-51021-101, RPS-53398-002,
RPS-53398-038
SD-53398-032, SD-53398-033

Sales Drawing

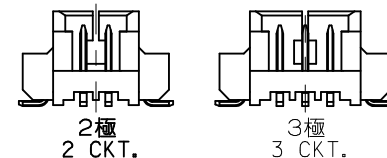
This document was generated on 05/25/2010

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注記 NOTES

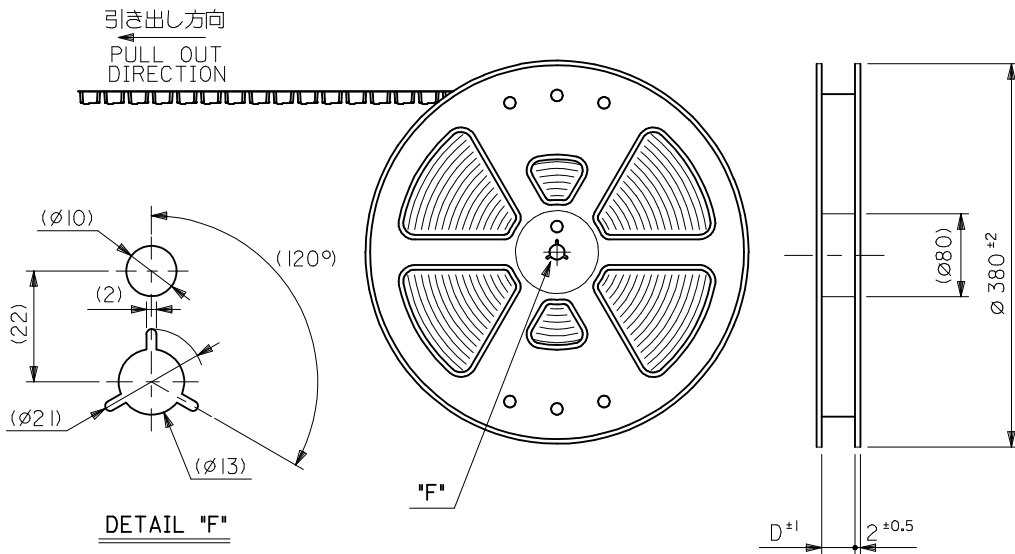
1. 嵌合相手：51021 シリーズ MATE WITH：51021 SERIES
- △2. 水平面上においての、ウェハー底面 **W** とソルダーテール及び
フィッティングネイル底面とのズレ量を示す。
MISALIGNMENT OF SOLDER TAIL & FITTING NAIL FROM **W**
- △3. 偶数極にのみ適用。APPLY EVEN CIRCUIT PRODUCTS.
- △4. ロック窓は、2、3極は1ヶ所、4極以上は2ヶ所とする。
LOCKING WINDOW：ONE PLACE FOR 2&3 CKTS.
TWO PLACES FOR MORE THAN 4 CKTS.
5. 材質 MATERIAL PA, UL94V-0 COLOR:NATURAL
ウェハー：
WAFER
ピン：リン青銅
PIN：PHOS-BRO
：錫メッキ 1.0マイクロメートル以上
：MATTE TIN 1.0 MICROMETER MINIMUM
：ニッケル下地 1.0マイクロメートル以上
：NICKEL(UNDER PLATING)1.0 MICROMETER MINIMUM
金具：リン青銅
FITTING NAIL：PHOS-BRO
：錫メッキ 1.0マイクロメートル以上
：MATTE TIN 1.0 MICROMETER MINIMUM
：ニッケル下地 1.0マイクロメートル以上
：NICKEL(UNDER PLATING)1.0 MICROMETER MINIMUM
6. 本製品は 53398-***10 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 53398-***10.



△4 ロック形状図
LOCK CONFIGURATION

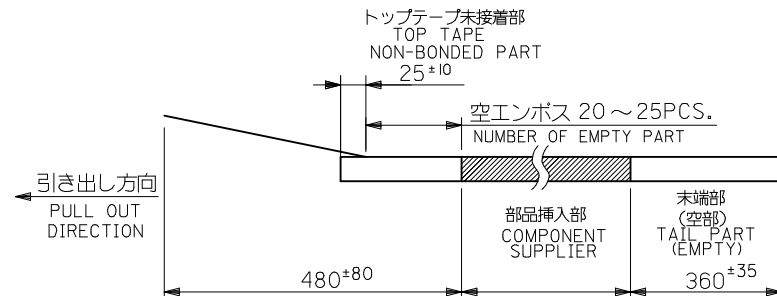
REVISED EC NO.: J2010-0213 DRWN:TKON CHKD:NUKITA APPR:NUKITA		2009/09/25 2009/09/25 2009/09/28		DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	53398-**19		MODEL NO.		
										DESIGN UNITS METRIC			THIRD ANGLE PROJECTION		
						10 UNDER ± 0.2		DRAWN BY DATE MNI NOMIYA 04/02/06		TITLE 1.25 W/B CONN. ASS'Y FOR SMT(ST.) -LEAD FREE-					
						10 OVER 30 UNDER ± 0.25		CHECKED BY DATE KTOJO 04/02/06							
						30 OVER ± 0.3		APPROVED BY DATE MSASAO 04/02/06		 MOLEX INCORPORATED					
ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.									
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 2		SD-53398-032				1 OF 2			
REV								SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

[illegible]



NOTES

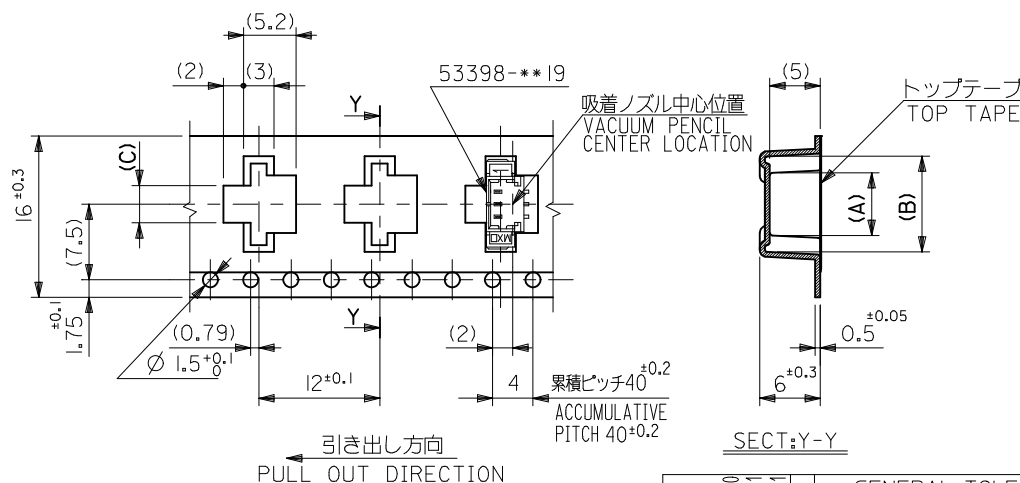
1. 梱包数量: 1000個/リール
NUMBER OF CONNECTOR: 1000PCS/REEL
2. リードテープ長さ
LEAD TAPE LENGTH



3. トップテープの剥離強度: $0.6 \pm 0.35\text{N}$ ($60 \pm 35\text{gf}$) (剥離方向は下図参照)
PEELING OFF FORCE OF TOP TAPE: $0.6 \pm 0.35\text{N}$ ($60 \pm 35\text{gf}$)
(PEELING DIRECTION IS SHOWN IN FOLLOWING FIG.)
剥離速度: 300mm/min (参考) >
PEELING SPEED: 300mm/min. (REFERENCE)



4. 53398-**-19 の詳細寸法については図面 SD-53398-032 を参照下さい。
RE DETAILED DIMENSIONS, SEE SD-53398-032.
5. 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 (TOP TAPE): PET, PE, PEF
リール (REEL): ポリスチレン (P.S.) <リサイクル材含む>
POLYSTYRENE (P.S.) <RECYCLE MATERIAL CONTAINED>
6. 本製品は 53398-**-90 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 53398-**-90.
7. 本製品は乾燥剤入り、ハイバリア梱包仕様である。
THIS PRODUCT IS HIGH BARRIER PACKAGE WITH DESICCANT.



SECT: Y-Y

16幅テープ
(TAPE WIDTH: 16)

16	21.4	17.4	3.7	9.5	5.8	53398-0371	3
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	2.45	8.25	4.55	53398-0271	2
			(C)	(B)	(A)	MATERIAL NO.	極数 CKT.

REVISED EC NO: J2009-2060 DRAWN: T KON 2009/05/20 CHKD: H MATSUMOTO 2009/05/21 APPR: NUKITA 2009/05/21	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY NINOMIYA	DATE '04/02/06	TITLE 1.25 W/B CONN WAFER ASSY FOR SMT. EMBSTP. PKG. -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE '04/02/06					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE '04/02/06	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE & SHEET 2.3		SD-53398-033		1 OF 3		
				SIZE A3		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

F

E

D

C

B

A

F

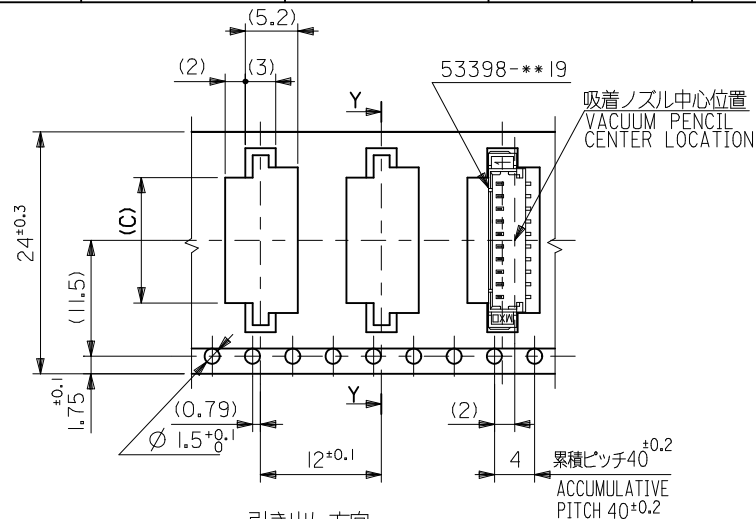
E

D

C

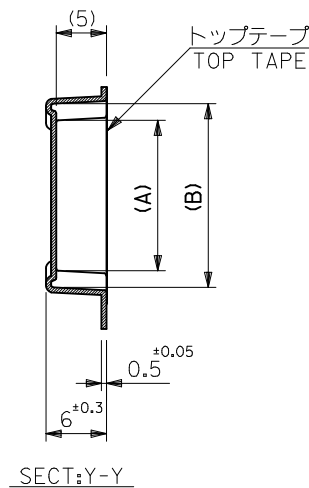
B

A

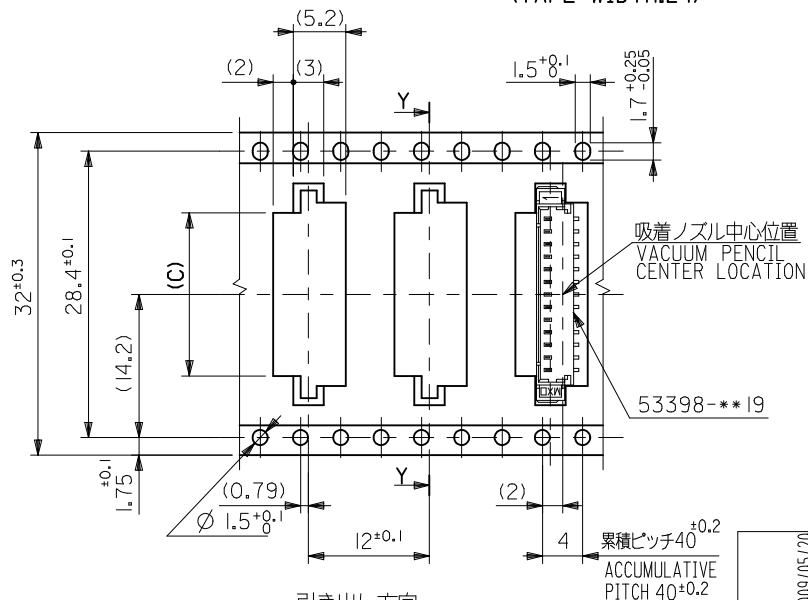


引き出し方向
PULL OUT DIRECTION

24幅テープ
(TAPE WIDTH:24)

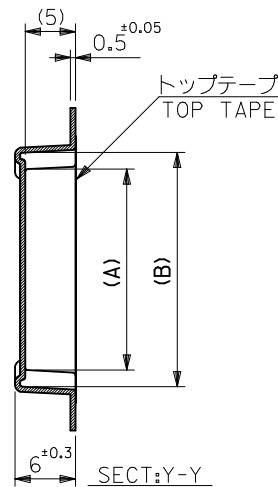


SECT:Y-Y



引き出し方向
PULL OUT DIRECTION

32幅テープ
(TAPE WIDTH:32)



SECT:Y-Y

32	37.4	33.4	16.2	22	18.3	53398-1371	13
			14.95	20.75	17.05	▲ -1271	12
			13.7	19.5	15.8	▲ -1171	11
24	29.4	25.4	12.45	18.25	14.55	▲ -1071	10
			11.2	17	13.3	▲ -0971	9
			9.95	15.75	12.05	▲ -0871	8
			8.7	14.5	10.8	▲ -0771	7
			7.45	13.25	9.55	▲ -0671	6
			6.2	12	8.3	▼ -0571	5
			4.95	10.75	7.05	53398-0471	4
			キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)

REVISED	EC NO: J2009-2060	DRWN:TKN	2009/05/20	CH'KD:HMATSUMOTO	2009/05/21	APPR:NUKITA	2009/05/21	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
								10 UNDER	± 0.2	DRAWN BY NINOMIYA	DATE '04/02/06	TITLE 1.25 W/B CONN WAFER ASSY FOR SMT. EMBSTP. PKG. -LEAD FREE-			
								10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE '04/02/06				
								30 OVER	± 0.3	APPROVED BY M. SASAO	DATE '04/02/06	MOLEX MOLEX INCORPORATED			
								ANGULAR ±3 °		MATERIAL NO.					
								DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE & SHEET 1.3		SD-53398-033		2 OF 3	
B	REV	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

F

F

E

E

D

D

C

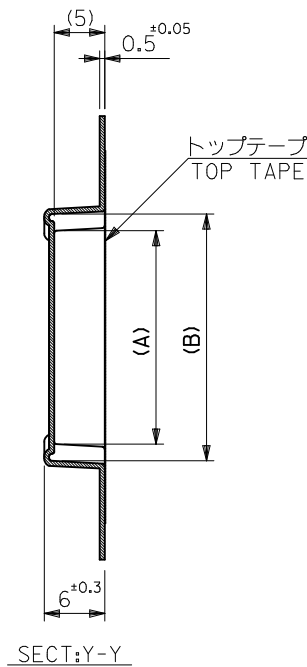
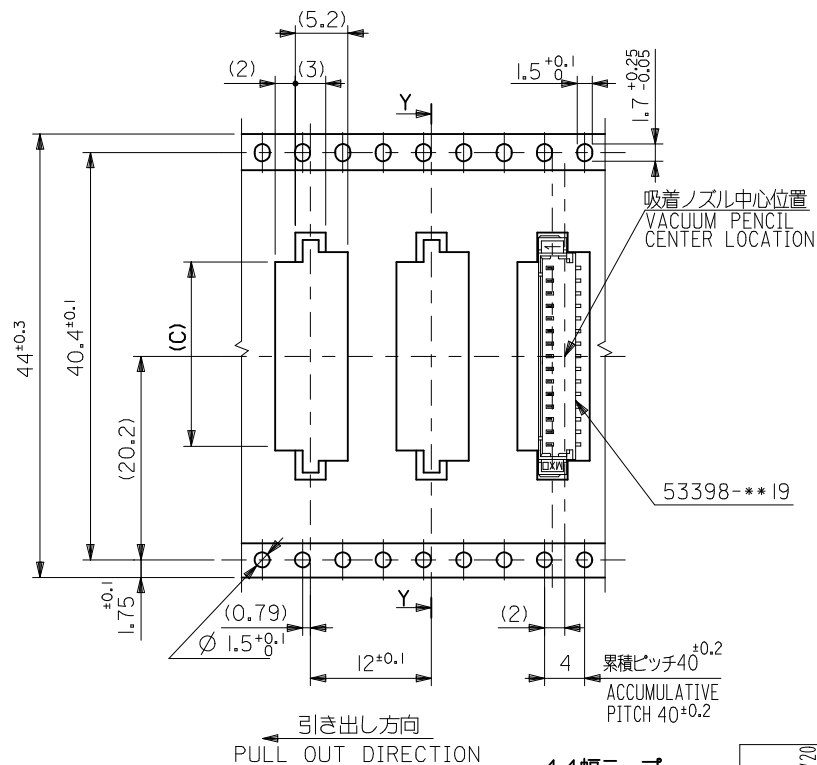
C

B

B

A

A



44幅テープ
(TAPE WIDTH:44)

44	49.4	45.4	18.7	24.5	20.8	53398-1571	15
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	17.45	23.25	19.55	53398-1471	14
	(C)	(B)	(A)			MATERIAL NO.	極数 CKT.

REVISED EC NO.: J2009-2060 DRWN:TKON CHKD:HMATSUMOTO APPR:NUKITA REV B	DESCRIPTION 2009/05/20 2009/05/21 2009/05/21	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
				MM ONLY		---	METRIC			
		10 UNDER	± 0.2	DRAWN BY	DATE	TITLE 1.25 W/B CONN WAFER ASSY FOR SMT. EMBSTP. PKG. -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	CHECKED BY	DATE					
		30 OVER	± 0.3	APPROVED BY	DATE	MOLEX INCORPORATED				
		ANGULAR ±3 °		M. SASAO						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE & SHEET 12		SD-53398-033					3 OF 3
		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							