

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0550910274](#)
Status: **Active**
Overview: [slimstack_0635mm_025_pitch](#)
Description: 0.635mm (.025") Pitch SlimStack™ Header, Surface Mount, Dual Row, Vertical Stacking, 6.00 and 12.00mm (.236 and .472") Stacking Heights, Black, Lead-free, 20 Circuits, Robotic Placement Metal Cap, with Embossed Tape on Reel Packaging

Documents:
[3D Model](#) [Product Specification PS-52760-015 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

UL E29179

General

Product Family PCB Headers
Series [55091](#)
Application Board-to-Board
Comments Stacking-Type
MolexKits Yes
Overview [slimstack_0635mm_025_pitch](#)
Product Name SlimStack™

Physical

Breakaway No
Circuits (Loaded) 20
Color - Resin Black
Durability (mating cycles max) 50
Flammability 94V-0
Glow-Wire Compliant No
Lock to Mating Part Yes
Mated Height (in) 0.236 In, 0.472 In
Mated Height (mm) 12.00 mm, 6.00 mm
Material - Metal Copper Alloy
Material - Plating Mating Gold
Material - Plating Termination Tin
Number of Rows 2
Orientation Vertical
PCB Locator Yes
PCB Retention Yes
Packaging Type Embossed Tape on Reel
Pitch - Mating Interface (in) 0.025 In
Pitch - Mating Interface (mm) 0.64 mm
Polarized to PCB Yes
Robotic Placement Metal Cap
Stackable No
Temperature Range - Operating -55°C to +85°C
Termination Interface: Style Surface Mount

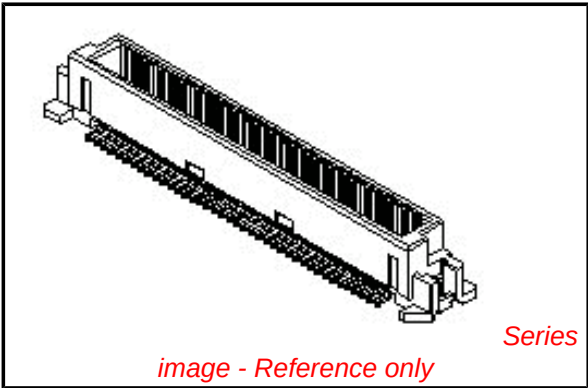
Electrical

Current - Maximum per Contact 0.5A
Voltage - Maximum 100V

Material Info

Reference - Drawing Numbers

Packaging Specification SPK-55091-001



EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Halogen-Free

**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.

China RoHS



Search Parts in this Series

[55091Series](#)

Mates With

SlimStack™ Receptacle [52760](#) , [52837](#) ,
[52885](#) , [52901](#)

Product Specification

Sales Drawing

PS-52760-015, RPS-52760-017, RPS-52760-018,
RPS-52760-020, RPS-52760-021, RPS-52760-022,
RPS-52760-029, RPS-52901-012
SD-55091-006, SD-55091-007

This document was generated on 06/07/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

F

E

D

C

B

A

F

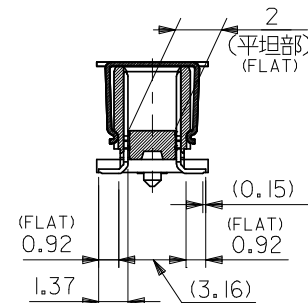
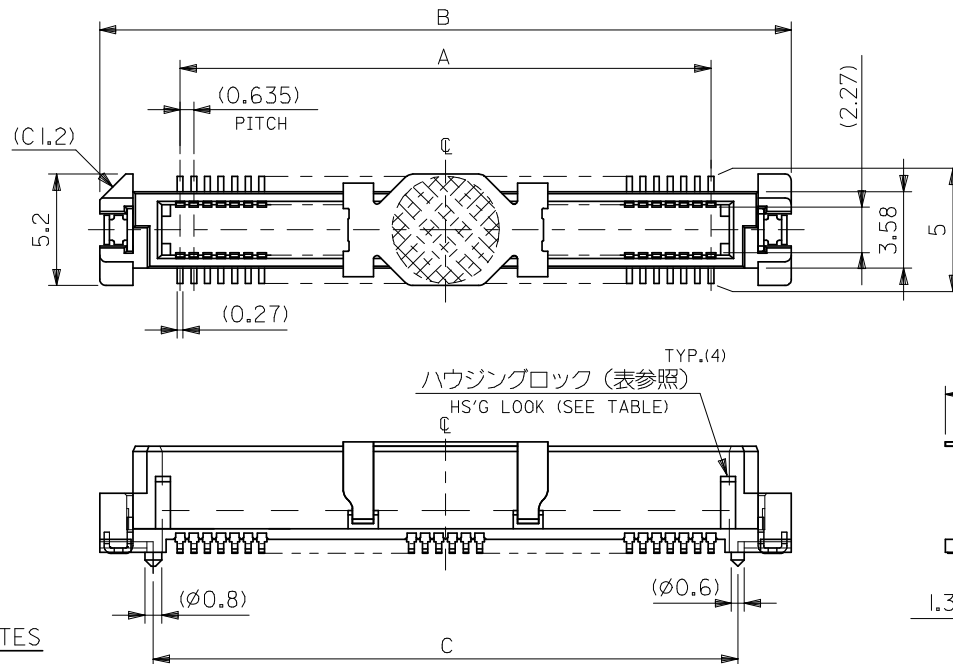
E

D

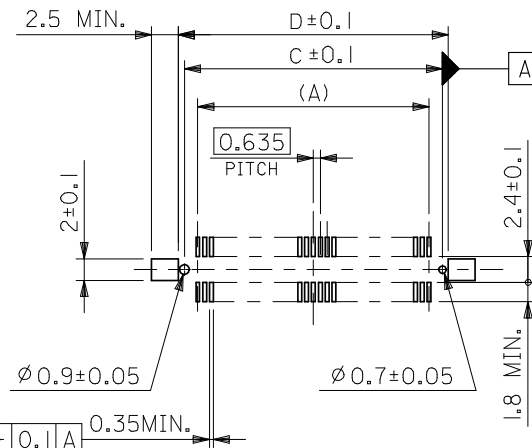
C

B

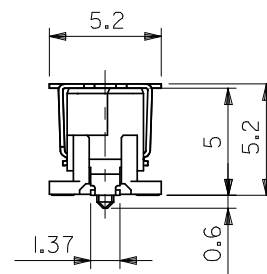
A



半田付け部詳細図
DETAIL FOR SOLDERING AREA



推奨基板寸法
RECOMMENDED PCB PATTERN LAYOUT



注)
NOTES

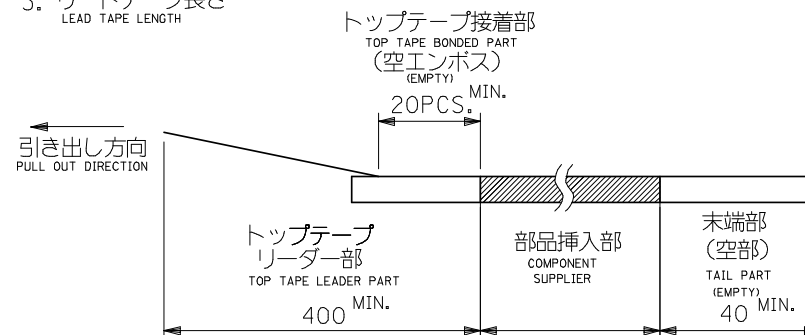
- 材質
MATERIAL
ハウジング : ガラス入りLCP、黒色、UL94V-0
HOUSING: LIQUID CRYSTAL POLYMER (LCP), GLASS FILLED, BLACK, UL94V-0
ターミナル : 銅合金 (t=0.2)
TERMINAL: COPPER ALLOY
吸着力バー : ステンレス (t=0.2)
VACUUM COVER: STAINLESS STEEL
補強金具 : 銅合金 (t=0.25)
FITTING NAIL: COPPER ALLOY
- メッキ仕様
PLATING
ターミナル : 接点部 : 金メッキ 0.25 マイクロメートル以上。
TERMINAL CONTACT AREA : GOLD 0.25 MICROMETER MINIMUM.
半田付け部 : 錫メッキ 1.0 マイクロメートル以上。
SOLDER TAIL AREA : TIN 1.0 MICROMETER MINIMUM.
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 1.5 MICROMETER MINIMUM.
補強金具 : 錫メッキ 1.0 マイクロメートル以上。
FITTING NAIL TIN 1.0 MICROMETER 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 1.0 MICROMETER MINIMUM.
- テールのバラツキ寸法
TAIL COPLANARITY
テール及び金具の平坦度は、0.1以下とする。
TAIL AND FITTING NAIL COPLANARITY TO BE 0.1 MAXIMUM.
- エンボス対応済みの極数については、SD-55091-007を参照下さい。
FOR THE EMBOSSED PACKAGE PRODUCTS, SEE SD-55091-007.
- 本製品は55091-***2の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 55091-***2.

無し NO	79.17	78.07	83.07	75.565	—	55091-2475	55091-2472	240	○
	66.47	65.37	70.37	62.865	—	—2075	—2072	200	○
	60.12	59.02	64.02	56.515	—	—1875	—1872	180	○
	53.77	52.67	57.67	50.165	55091-1674	—1675	—1672	160	○
	47.42	46.32	51.32	43.815	55091-1474	—1475	—1472	140	○
	41.07	39.97	44.97	37.465	55091-1274	—1275	—1272	120	○
	34.72	33.62	38.62	31.115	55091-1074	—1075	—1072	100	○
	31.55	30.45	35.45	27.94	55091-0974	—0975	—0972	90	○
	28.37	27.27	32.27	24.765	55091-0874	—0875	—0872	80	○
	25.2	24.1	29.1	21.59	55091-0774	—0775	—0772	70	○
有り YES	24.56	23.46	28.46	20.955	—	—6875	—6872	68	○
	22.02	20.92	25.92	18.415	55091-0674	—0675	—0672	60	○
	18.85	17.75	22.75	15.24	55091-0574	—0575	—0572	50	○
	15.67	14.57	19.57	12.065	55091-0474	—0475	—0472	40	○
	12.5	11.4	16.4	8.89	55091-0374	—0375	—0372	30	○
	9.32	8.22	13.22	5.715	55091-0274	—0275	—0272	20	○
ハウジングロック HS'G LOCK	D	C	B	A	エンボス梱包 EMBOSSED PACKAGING	スティック梱包 STICK PACKAGING	製品番号 MATERIAL NO.	極数 CKT. NO.	量産対応 AVAILABLE
					ORDER No. オーダー番号				

REVISED EC NO: J2009-0365 DRWN:WABEI CHKD:THARUYAMA APPR:NUKITA	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION		
				MM ONLY		---	METRIC			
		10 UNDER	± 0.2	DRAWN BY H.KAWABATA	DATE '04/03/05	TITLE 0.635 PITCH B-TO-B PLUG HS'G COVER ASS'Y -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE '04/03/05					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE '04/03/05	 MOLEX INCORPORATED				
		ANGULAR ±3 °	MATERIAL NO.		DOCUMENT NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-55091-006		1 OF 1		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

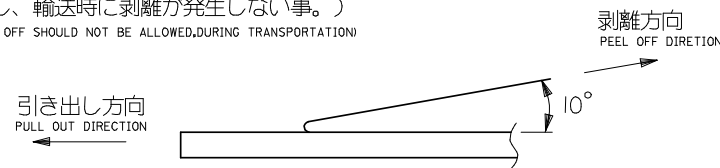
注)
NOTES

- 製品番号 55091-***72 の詳細寸法については、SD-55091-006 を参照下さい。
IN THE PACKAGE ,PART NO.55901-***72 DETAILED DIMENSIONS ,SEE SD-55091-006.
- 梱包数量 : 1000 個/リール
NUMBER OF CONNECTORS : 1000 PCS/REEL
- リードテープ長さ
LEAD TAPE LENGTH



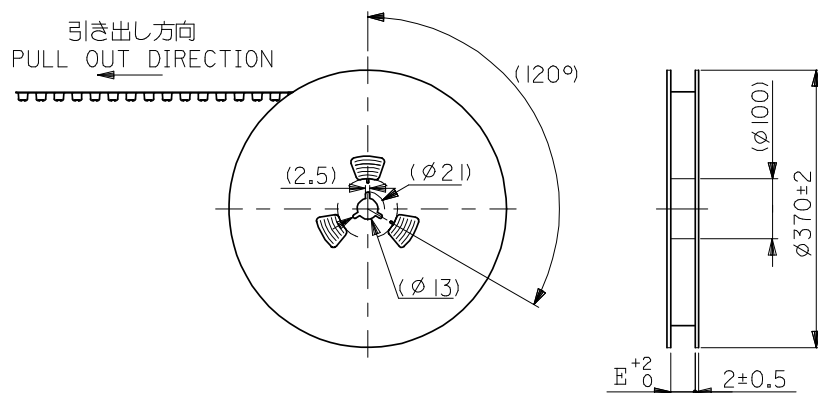
- トップテープの剥離強度: (剥離方向は下図参照)
PEELING OFF FORCE OF TOP TAPE (PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
0. 1~1. 3N {10~130gf}

尚、本規格値は、出荷時に適用。
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT
(但し、輸送時に剥離が発生しない事。)
(PEEL OFF SHOULD NOT BE ALLOWED,DURING TRANSPORTATION)



- 材料
MATERIAL
キャリアテープ : ポリプロピレン (PP)
CARRIER TAPE : POLYPROPYLENE (PP)
トップテープ : PET, PE, PEF
TOP TAPE : PET , PE , PEF
リール : 紙
REEL : CARD BOARD

- 本製品は55091-***4の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 55091-***4.



REVISED EC NO: J2009-0365 DRWN:WABEI CHKD:THARUYAMA APPR:NUKITA		DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	MODEL NO. 55091-***74
					DRAWN BY KAWABATA	DATE '04/03/05	TITLE 55091-***72 TAPING PACKAGE -LEAD FREE-	THIRD ANGLE PROJECTION	
A	B	C	D	E	F	CHECKED BY KTOJO	DATE '04/03/05		
						APPROVED BY MSASAO	DATE '04/03/05	MOLEX INCORPORATED	
						MATERIAL NO. SEE SHEET 2,3		DOCUMENT NO. SD-55091-007	SHEET NO. 1 OF 3
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

F

E

D

C

B

A

F

E

D

C

B

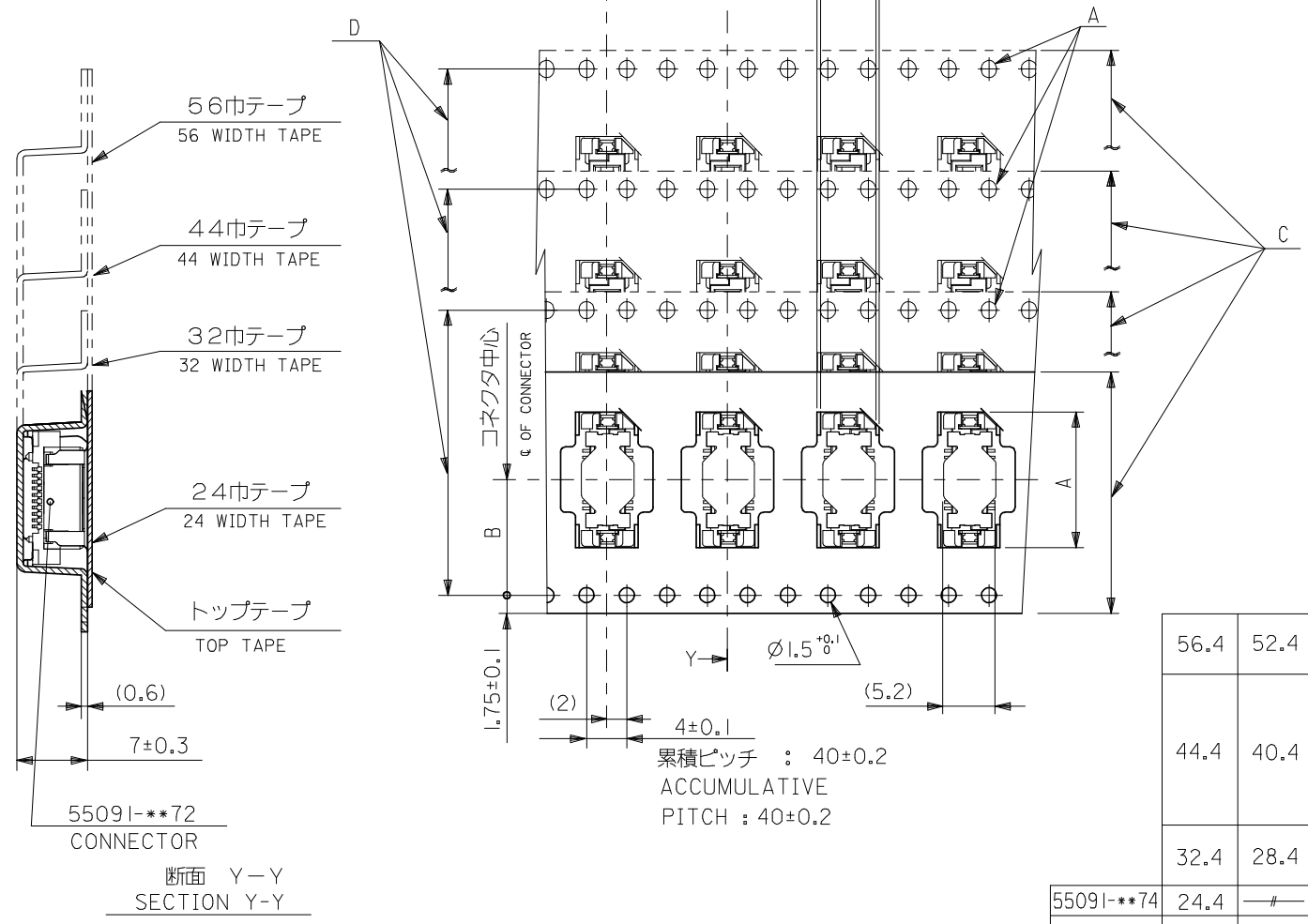
A

引き出し方向
PULL OUT DIRECTION

Y

12±0.1

(6.2)
(5.5)



56巾テープ
56 WIDTH TAPE

44巾テープ
44 WIDTH TAPE

32巾テープ
32 WIDTH TAPE

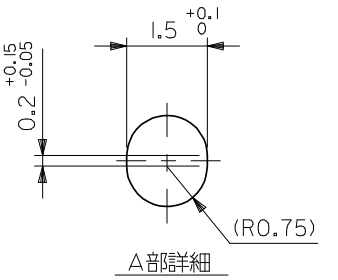
24巾テープ
24 WIDTH TAPE

トップテープ
TOP TAPE

55091-**72
CONNECTOR

断面 Y-Y
SECTION Y-Y

累積ピッチ : 40±0.2
ACCUMULATIVE
PITCH : 40±0.2



56.4	52.4	56 ^{+0.3}	26.2	38.9	55091-1074	100	○
				35.8	↑ -0974	90	○
44.4	40.4	44 ^{+0.3}	20.2	32.6	-0874	80	○
				29.4	-0774	70	○
				28.8	-6874	68	—
				26.2	-0674	60	○
				23.1	-0574	50	○
32.4	28.4	32 ^{+0.3}	14.2	19.9	-0474	40	○
				16.7	↓ -0374	30	○
24.4	—#—	24 ^{+0.3}	11.5	13.5	55091-0274	20	○
E	D	C	B	A	MATERIAL NO.	極数 NO. OF CKTS.	量産対応 NO. OF CKTS. AVAILABLE

REVISED
EC NO: J2009-0365
DRWN:WABEI
CHKD:THARUYAMA
APPR:NUKITA

DESCRIPTION
2008/08/06
2008/08/07
2008/08/07

GENERAL TOLERANCES
(UNLESS SPECIFIED)

10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±3°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY KAWABATA	DATE '04/03/05
CHECKED BY KTOJO	DATE '04/03/05
APPROVED BY MSASAO	DATE '04/03/05

MATERIAL NO.

SEE TABLE

SIZE
A3

SCALE

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

55091-**72 TAPING
PACKAGE
-LEAD FREE-

MOLEX INCORPORATED

DOCUMENT NO.
SD-55091-007

SHEET NO.
2 OF 3

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

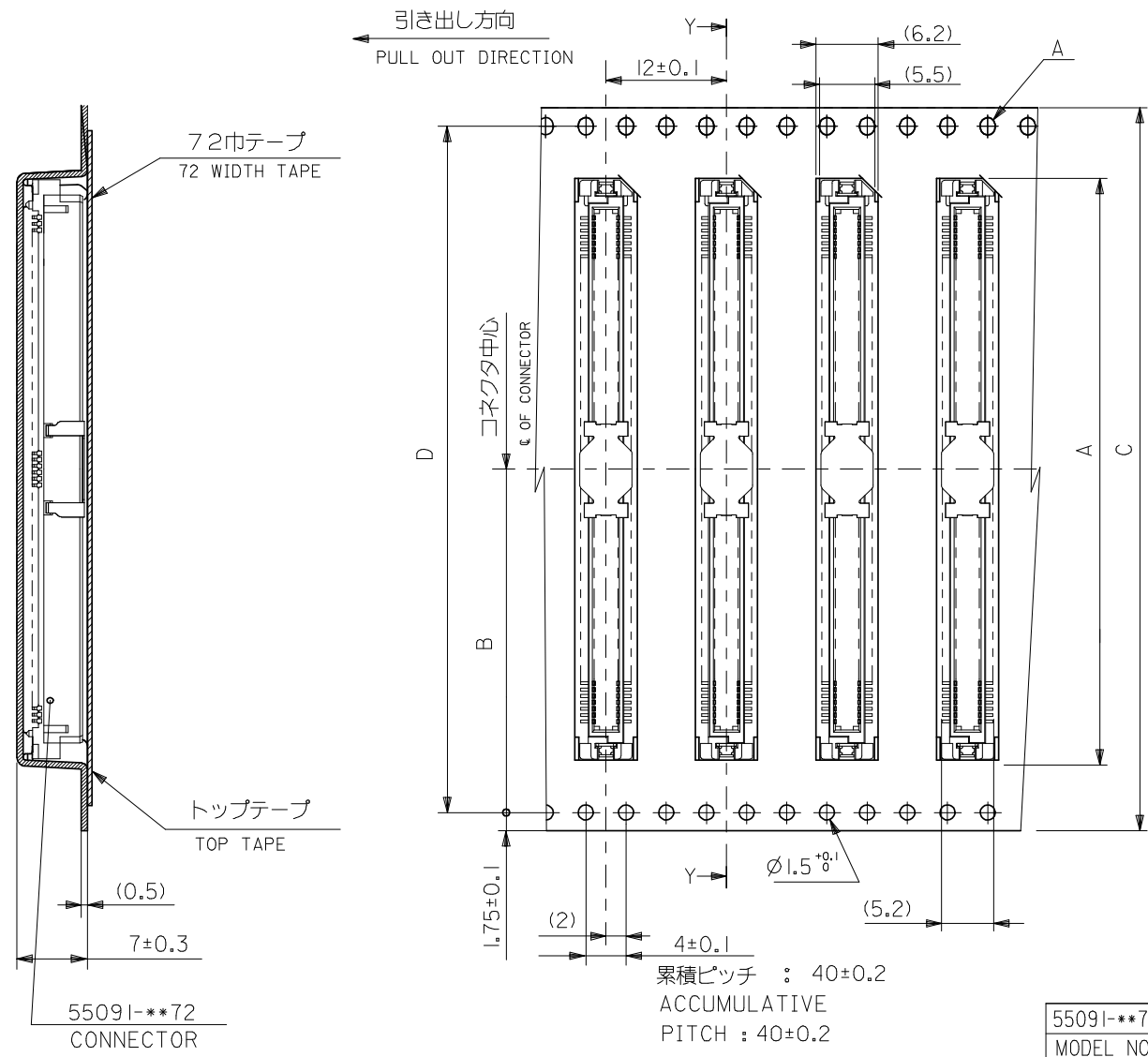
E

D

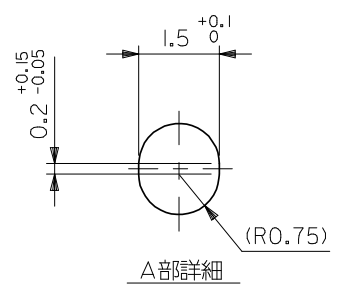
C

B

A



断面 Y-Y
SECTION Y-Y



累積ピッチ : 40±0.2
ACCUMULATIVE
PITCH : 40±0.2

55091-**74
MODEL NO.

72.4	68.4	72±0.3	34.2	58.0	55091-1674	160	○
				51.6	55091-1474	140	○
				45.3	55091-1274	120	○
CARRYER TAPE WIDTH (B)				(A)	MATERIAL NO.	極数 NO. OF CKTS.	量産対応 AVAILABLE

REVISED EC NO: J2009-0365 DRWN:WABEI CHKD:THARUYAMA APPR:NUKITA	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		10 UNDER	±0.2	DRAWN BY KAWABATA	DATE '04/03/05	55091-**72 TAPING PACKAGE -LEAD FREE-					
		10 OVER 30 UNDER	±0.25	CHECKED BY KTOJO	DATE '04/03/05						
		30 OVER	±0.3	APPROVED BY MSASAO	DATE '04/03/05	molex MOLEX INCORPORATED					
		ANGULAR	±3 °	MATERIAL NO.	DOCUMENT NO.						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE TABLE		SD-55091-007		SHEET NO. 3 OF 3			
				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						