

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0550910674](#)
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, 60 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) 60
 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

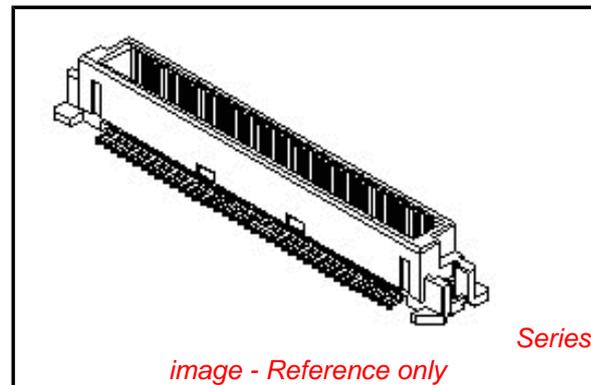
Electrical

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

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

[55091Series](#)

Mates With

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

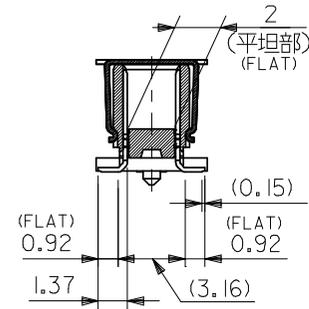
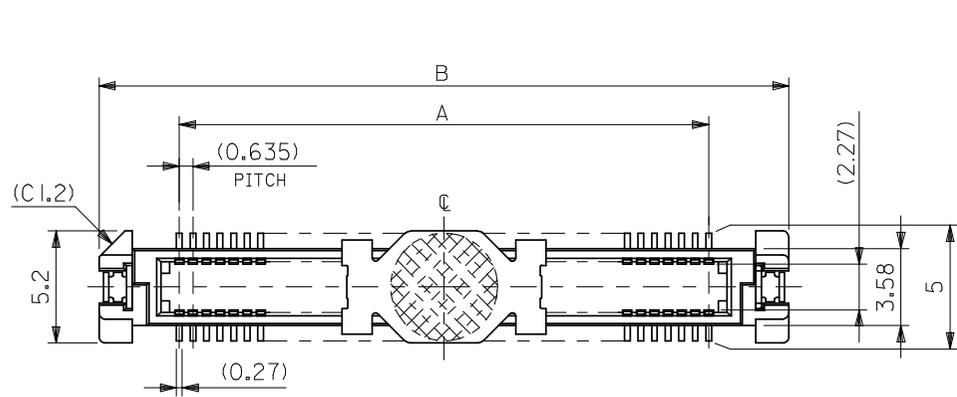
Product Specification

Sales Drawing

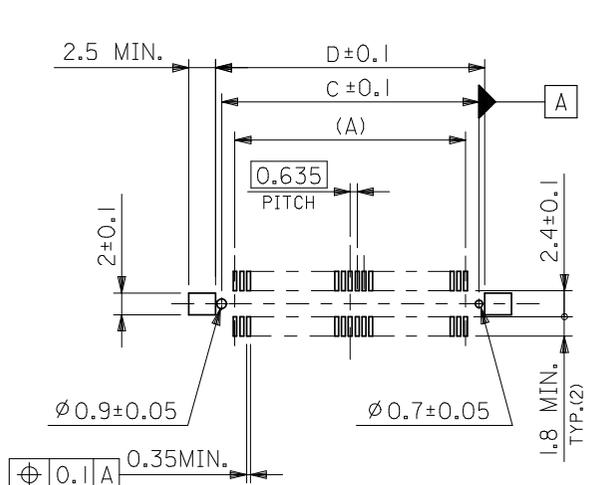
PS-52760-015, RPS-52760-017, RPS-52760-018,
RPS-52760-020, RPS-52760-021, RPS-52760-022,
RPS-52760-029, RPS-52901-012
SD-55091-006, SD-55091-007

This document was generated on 06/07/2010

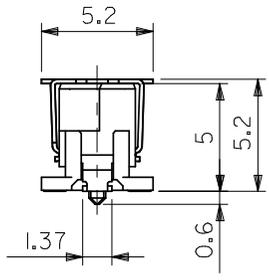
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



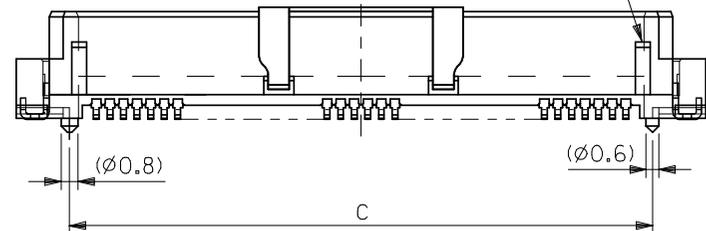
半田付け部詳細図
DETAIL FOR SOLDERING AREA



推奨基板寸法
RECOMMENDED PCB PATTERN LAYOUT



ハウジングロック (表参照)
HS'G LOCK (SEE TABLE)



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.

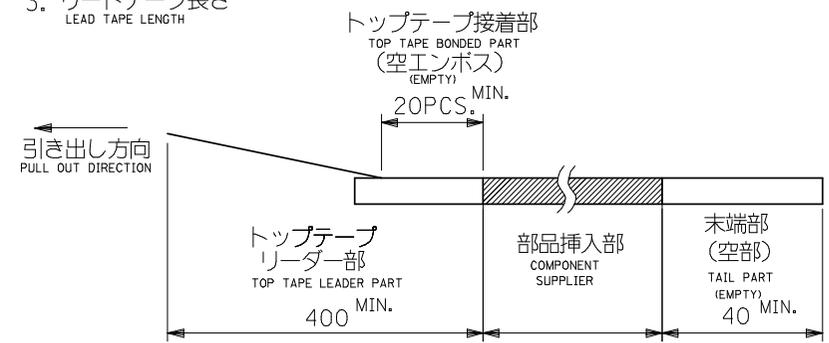
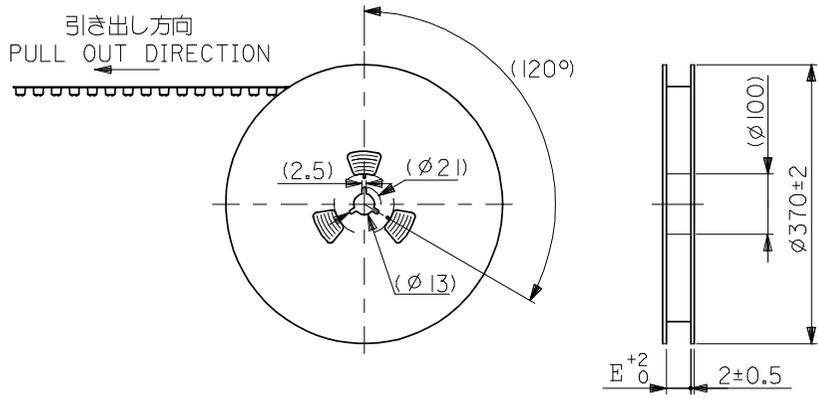
無し NO	79.17	78.07	83.07	75.565	—	55091-2475	55091-2472	240	○
	66.47	65.37	70.37	62.865	—	-2075	-2072	200	○
	60.12	59.02	64.02	56.515	—	-1875	-1872	180	○
	53.77	52.67	57.67	50.165	55091-1674	-1675	-1672	160	○
	47.42	46.32	51.32	43.815	55091-1474	-1475	-1472	140	○
	41.07	39.97	44.97	37.465	55091-1274	-1275	-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	55091-0275	55091-0272	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: NABEI CHKD: THARUYAMA APPR: NUKITA	DESCRIPTION 2008/08/06 2008/08/07	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		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)

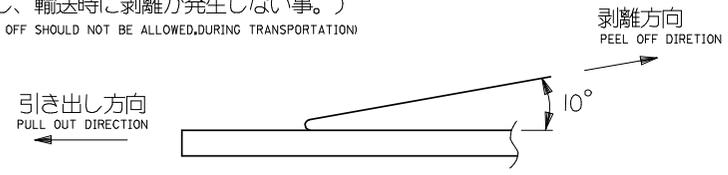
NOTES

- 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)

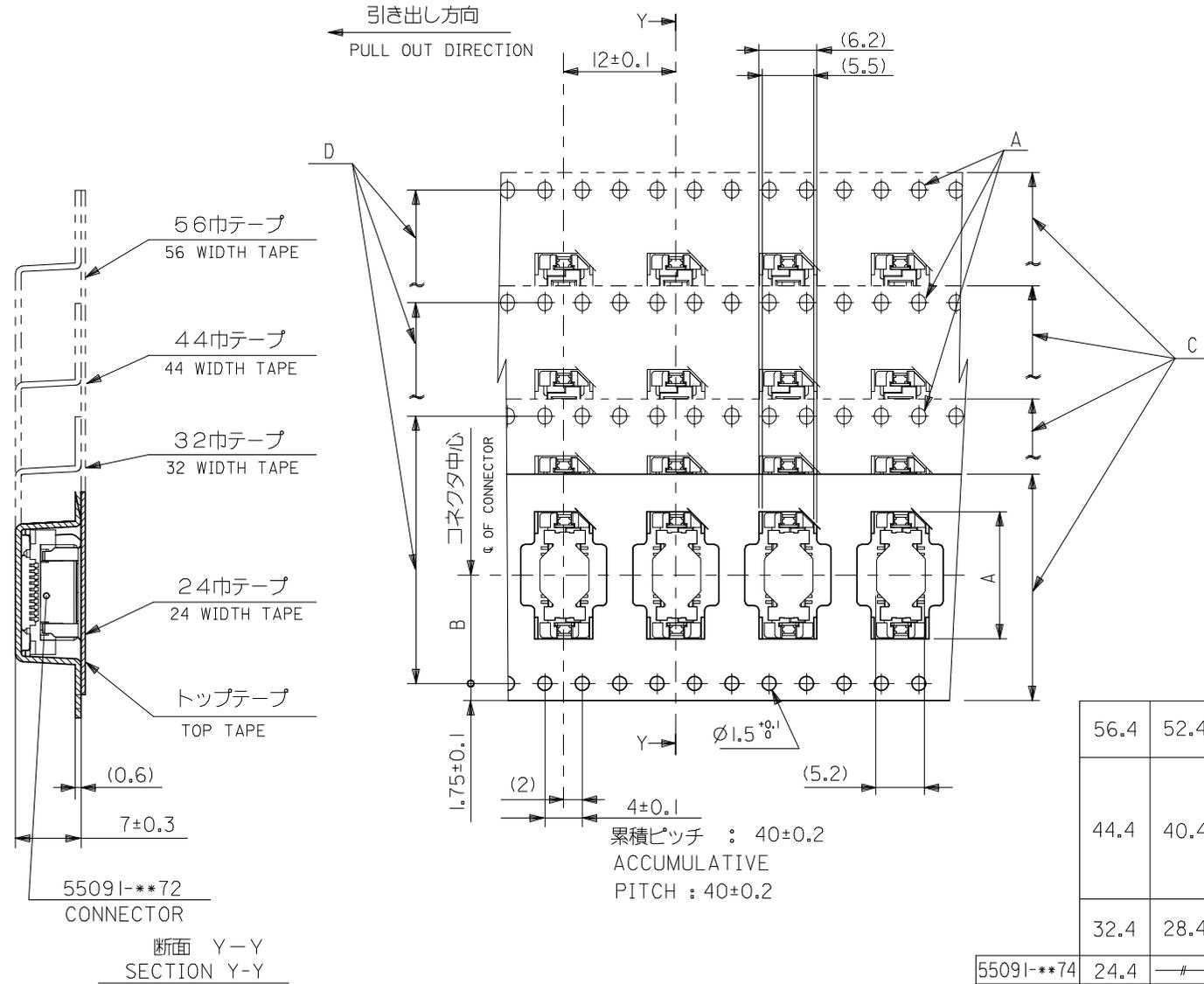


- 材料
MATERIAL
キャリアテープ : ポリプロピレン (PP)
CARRIER TAPE : POLYPROPYLENE (PP)
トップテープ : PET, PE, PEF
TOP TAPE : PET, PE, PEF
リール : 紙
REEL : CARD BOARD

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

MODEL NO. 55091-***74

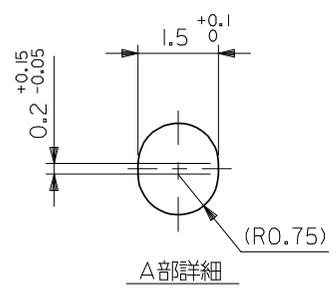
REVISED EC NO: J2009-0365 DRWN: MWABEI 2008/08/06 CH'KD: THARUYAMA 2008/08/07 APPR: NUKITA 2008/08/07	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	10 UNDER	±0.2	DRAWN BY KAWABATA	DATE '04/03/05	TITLE 55091-***72 TAPING PACKAGE -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 INCORPORATED			
	ANGULAR	±3°	MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 2,3		SD-55091-007		1 OF 3	
SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								



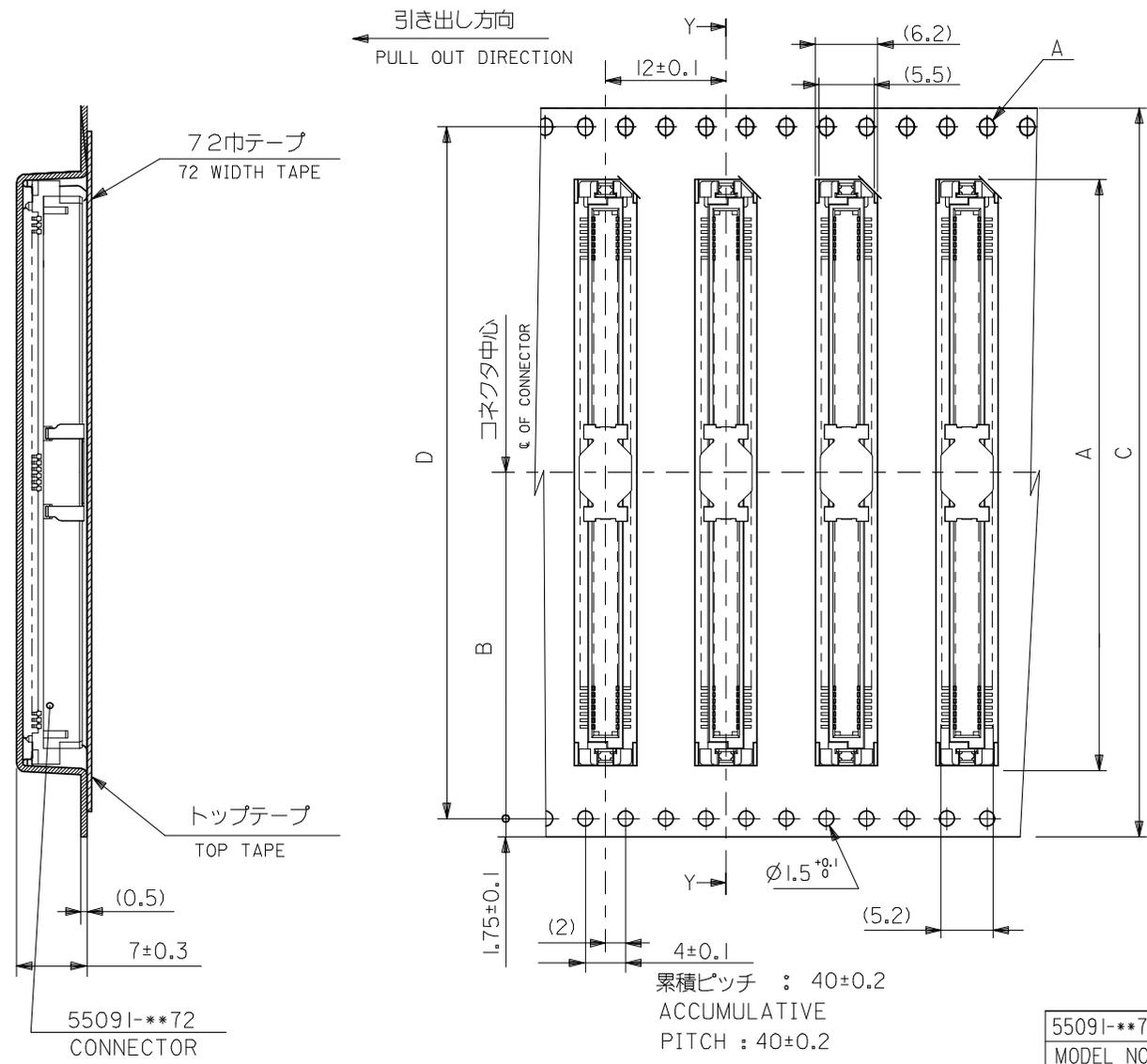
累積ピッチ : 40±0.2
ACCUMULATIVE PITCH : 40±0.2

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	○	
32.4	28.4	32 ^{+0.3}	14.2	23.1	-0574	50	○	
				19.9	-0474	40	○	
				16.7	-0374	30	○	
55091-***74	24.4	—	24 ^{+0.3}	11.5	13.5	55091-0274	20	○
MODEL NO	E	D	C	B	A	MATERIAL NO.	種数 NO. OF CKTS.	量産対応 AVAILABLE

断面 Y-Y
SECTION Y-Y



REVISED EC NO: J2009-0365 DRWN: NABEI 2008/08/06 CHKD: THARYAMA 2008/08/07 APPR: NUKITA 2008/08/07	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	10 UNDER ±0.2		MM ONLY	---	METRIC	◎ □	
	10 OVER 30 UNDER ±0.25		DRAWN BY DATE KAWABATA '04/03/05 CHECKED BY DATE KTOJO '04/03/05 APPROVED BY DATE MSASAO '04/03/05	TITLE	55091-***72 TAPING PACKAGE -LEAD FREE-		
	30 OVER ±0.3			MOLEX INCORPORATED	DOCUMENT NO.	SD-55091-007	
	ANGULAR ±3°		MATERIAL NO.	SEE TABLE	SHEET NO.	2 OF 3	
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					



引き出し方向
PULL OUT DIRECTION

72巾テープ
72 WIDTH TAPE

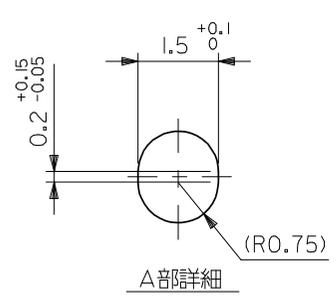
トップテープ
TOP TAPE

55091-**72
CONNECTOR

断面 Y-Y
SECTION Y-Y

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

55091-**74
MODEL NO.



A部詳細

72.4	68.4	72 ^{±0.3}	34.2	58.0	55091-1674	160	○
				51.6	55091-1474	140	○
				45.3	55091-1274	120	○
				(B)	(A)	MATERIAL NO.	極数 NO. OF CKTS. AVAILABLE

REVISED EC NO: J2009-0365 DRWN: NABEI CHKD: THARYAMA APPR: NUKITA	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	TITLE 55091-**72 TAPING PACKAGE -LEAD FREE-		
	10 OVER 30 UNDER	±0.25	CHECKED BY KTOJO	DATE '04/03/05	APPROVED BY MSASAO		
	30 OVER	±0.3	APPROVED BY MSASAO	DATE '04/03/05	MATERIAL NO. SD-55091-007		
	ANGULAR	±3°	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SHEET NO. 3 OF 3