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Part Number: [5019204001](#)
Status: **Active**
Overview: [slimstack_050mm_020_pitch](#)
Description: 0.50mm (.020") Pitch SlimStack™ Board-to-Board Plug, SMT, Dual Row, Vertical Stacking, 4.00mm (.157") Stack Height, Without Solder Tabs, 40 Circuits

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)

[Product Specification PS-52991-008 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Headers
Series	501920
Application	Board-to-Board
Overview	slimstack_050mm_020_pitch
Product Name	SlimStack™

Physical

Breakaway	No
Circuits (Loaded)	40
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	None
Mated Height (in)	0.157 In
Mated Height (mm)	4.00 mm
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	2
Orientation	Vertical
PCB Locator	No
PCB Retention	None
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.020 In
Pitch - Mating Interface (mm)	0.50 mm
Polarized to Mating Part	No
Polarized to PCB	No
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Surface Mount

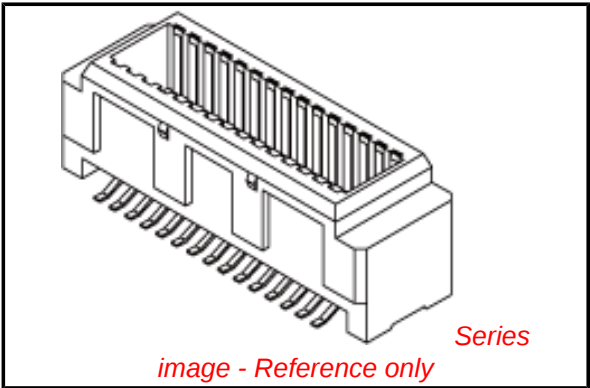
Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Product Specification	PS-52991-008, RPS-52991-015
Sales Drawing	SD-501920-001, SD-501920-002



Series
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
[501920Series](#)

Mates With
SlimStack™ Receptacle [52991](#) , [54167](#)

This document was generated on 05/26/2010

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10 9 8 7 6 5 4 3 2 1

F

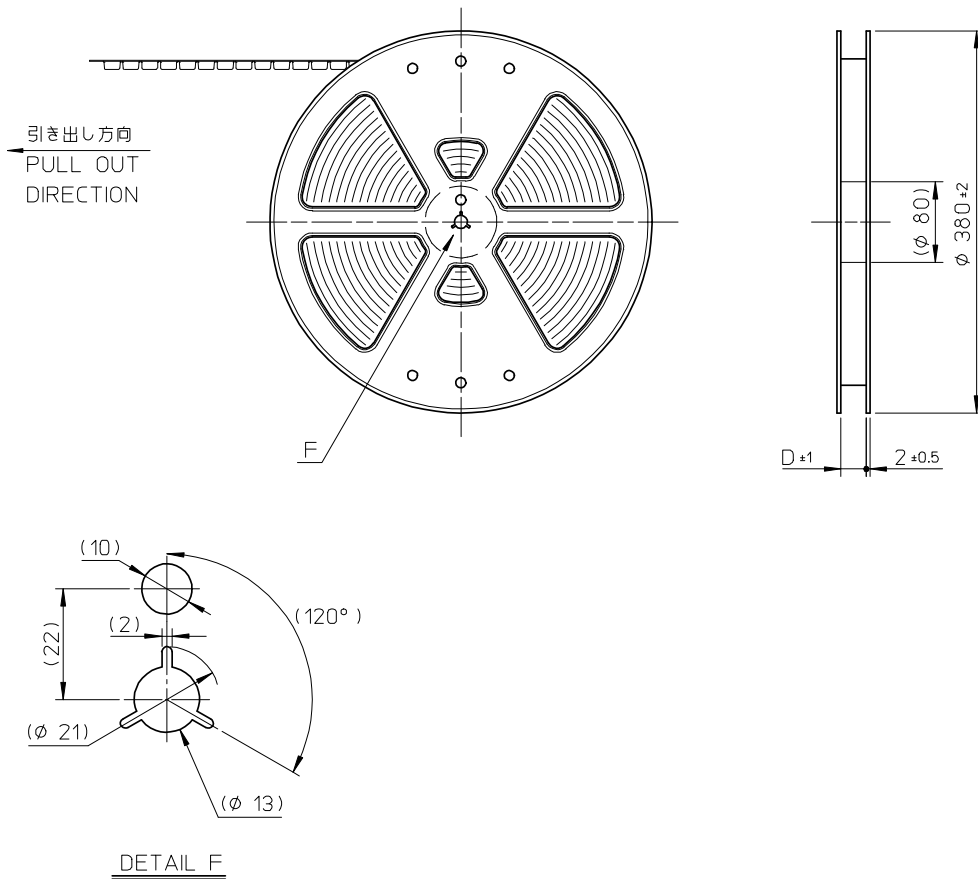
E

D

C

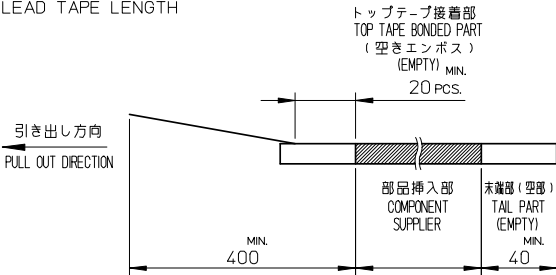
B

A

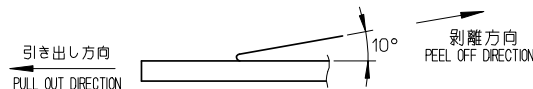


NOTES

- 製品詳細寸法については、製品単体図面を御参照下さい。
For detail of connector dimensions,
please see the drawing of connector itself (not packaged)
- 梱包数量 : 1500 個/リール
NUMBER OF CONNECTORS : 1500 PCS/REEL
- リードテープ長さ
LEAD TAPE LENGTH

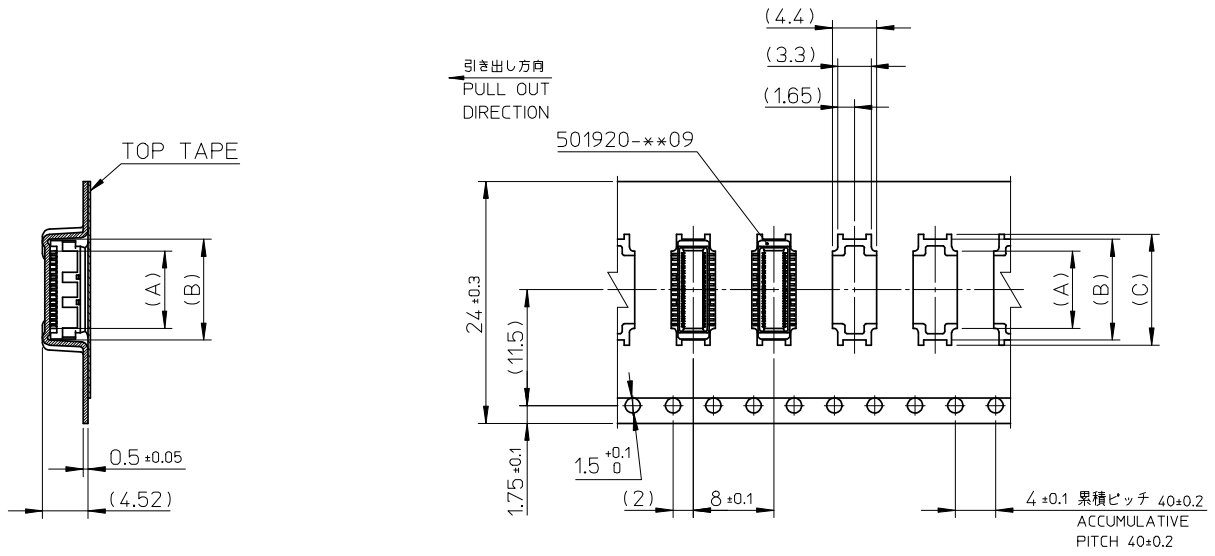


- トップテープの剥離強度 : 0.1N ~ 1.3N (10gf~130gf)
(剥離方向は下図参照)
尚、本規格値は、出荷時に適用。(但し、輸送時に剥離が発生しない事。)
PEELING OFF FORCE OF TOP TAPE 0.1N~1.3N (10gf~130gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
(PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTATION.)



- 材料
キャリアテープ : ポリプロピレン
トップテープ : PET ,PE ,PEF
リール : ポリスチレン(PS) <リサイクル材を含む>
MATERIAL
CARRIER TAPE : POLYPROPYLENE
TOP TAPE : PET ,PE ,PEF
REEL : POLYSTYRENE(PS) <RECYCLE MATERIAL CONTAINED>
- ELV AND RoHS COMPLIANT.

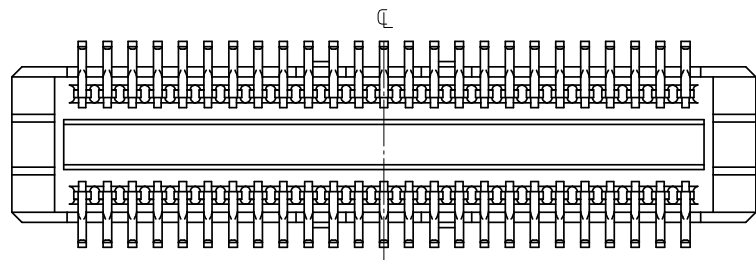
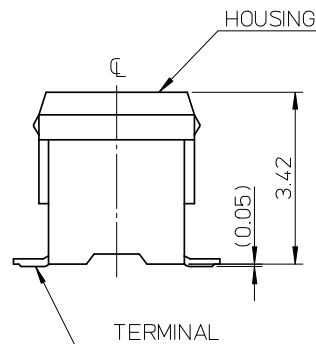
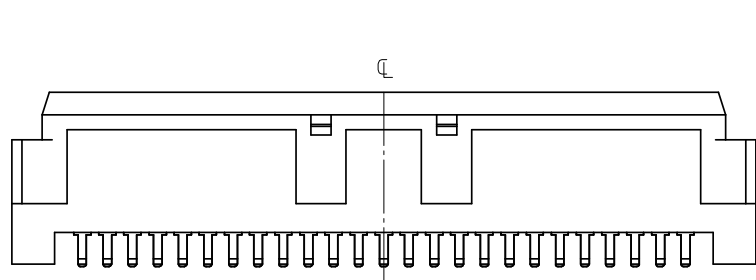
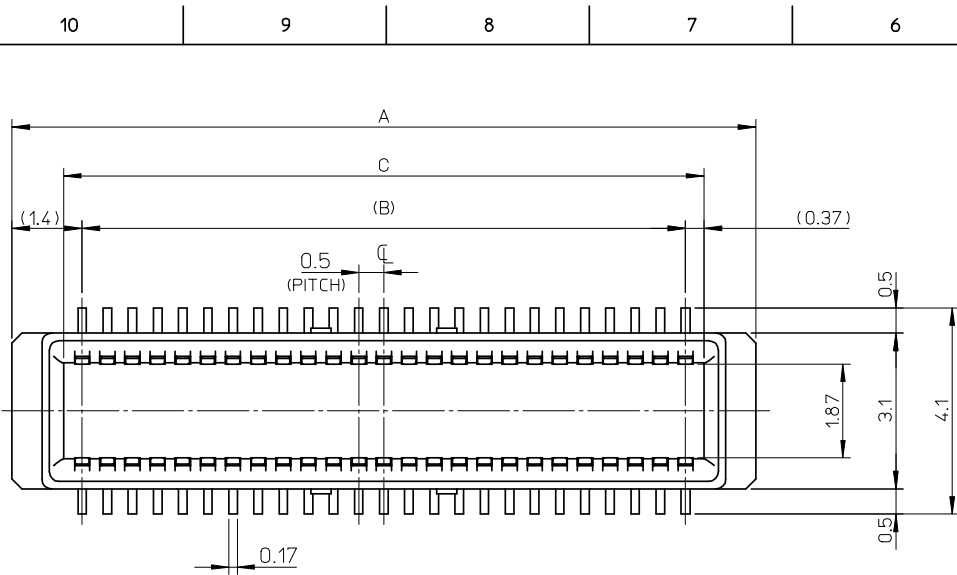
REVISED EC NO.: J2008-2863 DRWN:TKA/HO CHKD:MSASAO APPR:MSASAO	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		501920-**01		MODEL NO.		
				MM ONLY		SCALE --#	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY M. ISOGAYA	DATE 2005/08/18	TITLE EMBSTP PKG FOR 0.5 PITCH B/B CONN. PLUG HSG ASSY				
		10 OVER 30 UNDER	±0.25	CHECKED BY T. HIRATA	DATE 2005/08/18					
		30 OVER	±0.3	APPROVED BY M. SASAO	DATE 2005/08/18	MOLEX MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 2		SD-501920-002		1 OF 2				
B	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								



24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

24	25.4	16.0	15.0	12.67	501920-5001	50
		13.5	12.5	10.17	501920-4001	40
		11.0	10.0	7.67	501920-3001	30
キャリアテープ幅 CARRIER TAPE WIDTH	D	(C)	(B)	(A)	MATERIAL NO.	CIRCUIT

REVISED	EC NO: J2008-2863 DRWN:TKA/HO CHKD:MSASAO APPR:MSASAO	2008/01/29 2008/01/29 2008/02/05	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE //	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				10 UNDER		± 0.2	DRAWN BY M. ISOGAYA	DATE 2005/08/18	TITLE EMBSTP PKG FOR 0.5 PITCH B/B CONN. PLUG HSG ASSY				
				10 OVER 30 UNDER		± 0.25	CHECKED BY T. HIRATA	DATE 2005/08/18					
				30 OVER		± 0.3	APPROVED BY M. SASAO	DATE 2005/08/18	MOLEX MOLEX INCORPORATED				
				ANGULAR ±1 °		MATERIAL NO.			DOCUMENT NO.			SHEET NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE			SD-501920-002			2 OF 2	
	B		REV			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



NOTES

1.材質

MATERIAL

ハウジング : LCP(液晶ポリマー)、ガラス充填、黒色、UL94V-0
HOUSING : GLASS FILLED LIQUID CRYSTAL POLYMER ,BLACK ,UL94V-0
ターミナル : 銅合金 (t=0.15)
TERMINAL : COPPER ALLOY (t=0.15)

2.メッキ仕様

PLATING

ターミナル

TERMINAL

接点部 : 金メッキ
CONTACT AREA : GOLD
半田付け部 : 錫メッキ
SOLDER TAIL AREA : TIN
下地メッキ : ニッケルメッキ
UNDER PLATING : NICKEL

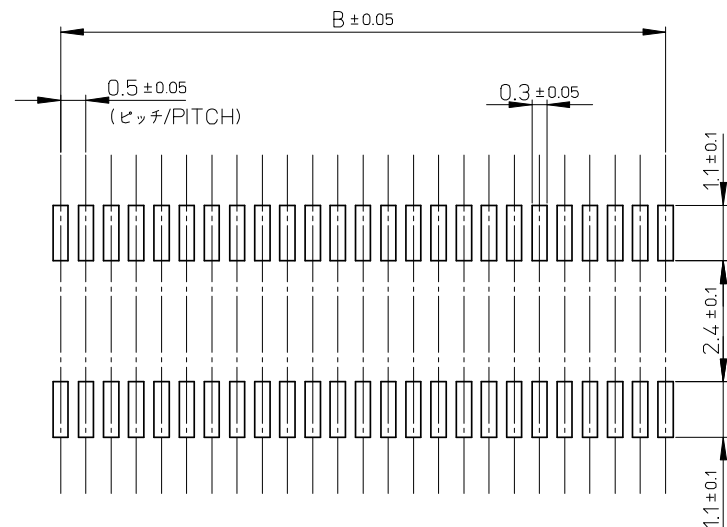
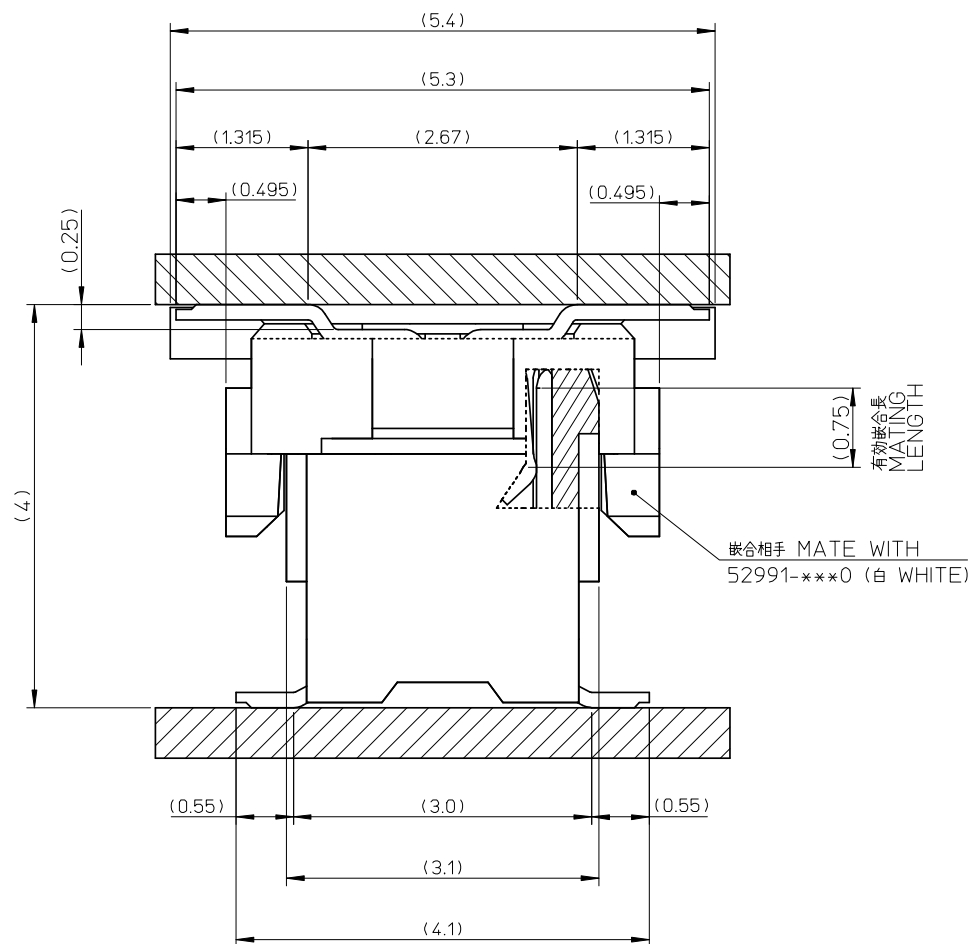
3.テール平坦度 : 0.1 MAX.

COPLANARITY : 0.1 MAXIMUM

4. ELV AND RoHS COMPLIANT.

12.74	12.0	14.8	501920-5001	501920-5009	50
C	B	A	エンボス梱包 EMBOSSED TAPE PACKAGING	製品番号 MATERIAL NO.	CIRCUIT

REVISED EC NO: J2009-0002 DRWN:TKAIHO CHKD:THIRATA APPR:MSASAO	DESCRIPTION 2008/07/04 2008/07/04 2008/07/07	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
		10 UNDER	±0.2	DRAWN BY TKAIHO	DATE 2008/01/28	TITLE 0.5 PITCH B/B CONN. PLUG HSG ASSY	 MOLEX INCORPORATED				
		10 OVER 30 UNDER	±0.25	CHECKED BY MSASAO	DATE 2008/01/29						
		30 OVER	±0.3	APPROVED BY MSASAO	DATE 2008/01/29						
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-501920-003				1 OF 2	
A	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									



参考基板レイアウト (マウント面)
RECOMMENDED P.C.BOARD
PATTERN DIMENSION (REF.)
(MOUNT AREA) (SCALE 10:1)

嵌合状態図(参考)
MATED DRAWING (REF.)

REV	DESCRIPTION	DATE
REVISED	EC NO: J2009-0002	2008/07/04
	DRWN:TKA1H0	2008/07/04
	CHKD:THIRATA	2008/07/04
	APPR:MSASAO	2008/07/07
A		

GENERAL TOLERANCES (UNLESS SPECIFIED)	
10 UNDER	± 0.2
10 OVER 30 UNDER	± 0.25
30 OVER	± 0.3
ANGULAR	± 1 °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
TKA1H0	2008/01/28
CHECKED BY	DATE
MSASAO	2008/01/29
APPROVED BY	DATE
MSASAO	2008/01/29
MATERIAL NO.	
SIZE	
A3	

501920-**-09		MODEL NO.	
SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION	
100:10	METRIC		
TITLE			
0.5 PITCH B/B CONN. PLUG HSG ASSY			
MOLEX INCORPORATED			
DOCUMENT NO.		SHEET NO.	
SD-501920-003		2 OF 2	
THIS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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