

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

5003340160

Status:

Active

Overview:

slimstack_050mm_020_pitch

Description:

0.50mm (.020") Pitch SlimStack™ Plug, Surface Mount, Dual Row, Vertical, 2.50mm (.098") Stack Height, 16 Circuits

Documents:

3D Model

Drawing (PDF)

Product Specification PS-54102-010 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Overview

Product Name

PCB Headers

500334

Board-to-Board

slimstack_050mm_020_pitch

SlimStack™

Physical

Breakaway

Circuits (Loaded)

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Mated Height (in)

Mated Height (mm)

Material - Metal

Material - Plating Mating

Material - Plating Termination

Number of Rows

Orientation

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Polarized to PCB

Stackable

Temperature Range - Operating

Termination Interface: Style

No

16

Black

30

No

No

No

None

Yes

0.098 In

2.50 mm

Brass

Gold

Gold

2

Vertical

No

None

Embossed Tape on Reel

0.020 In

0.50 mm

No

No

-40°C to +85°C

Surface Mount

Electrical

Current - Maximum per Contact

Voltage - Maximum

0.5A

50V

Material Info

Reference - Drawing Numbers

Packaging Specification

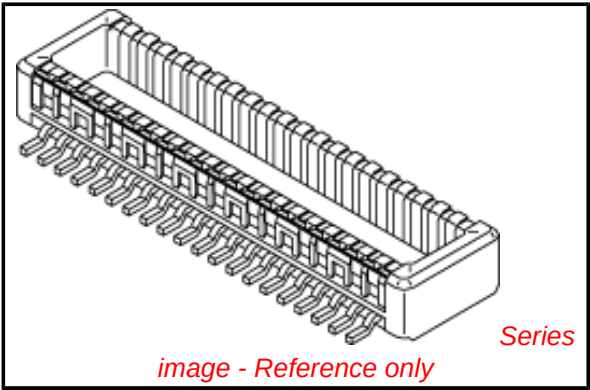
Product Specification

Sales Drawing

SPK-500334-001

PS-54102-010, RPS-54102-008, RPS-54102-012, RPS-54102-014, RPS-54102-017

SD-500334-001, SD-500334-002



EU RoHS

ELV and RoHS Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed



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

500334Series

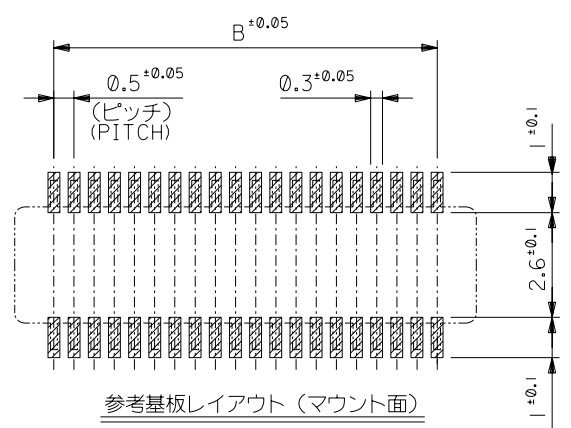
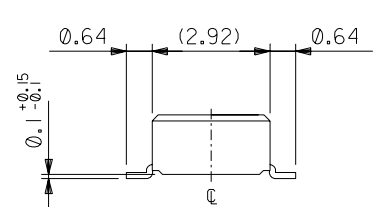
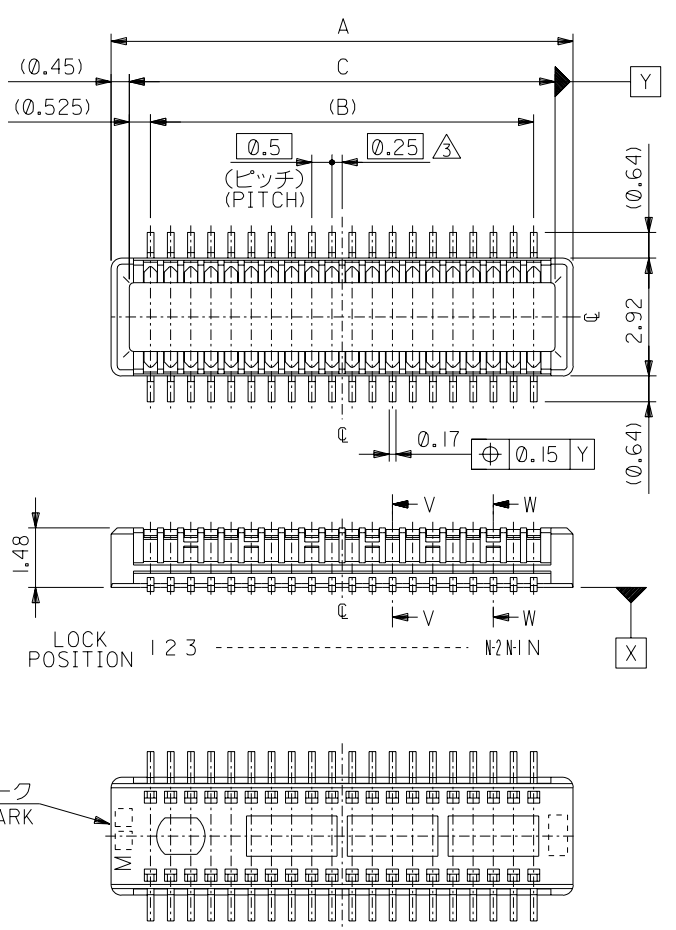
Mates With

54102 SlimStack™ Receptacle

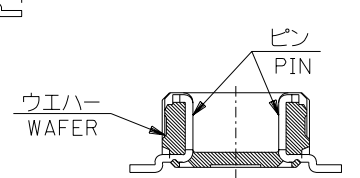
This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

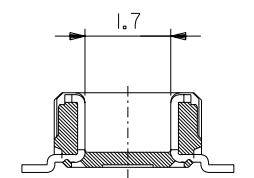
DWG. NO. SD-500334-001



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



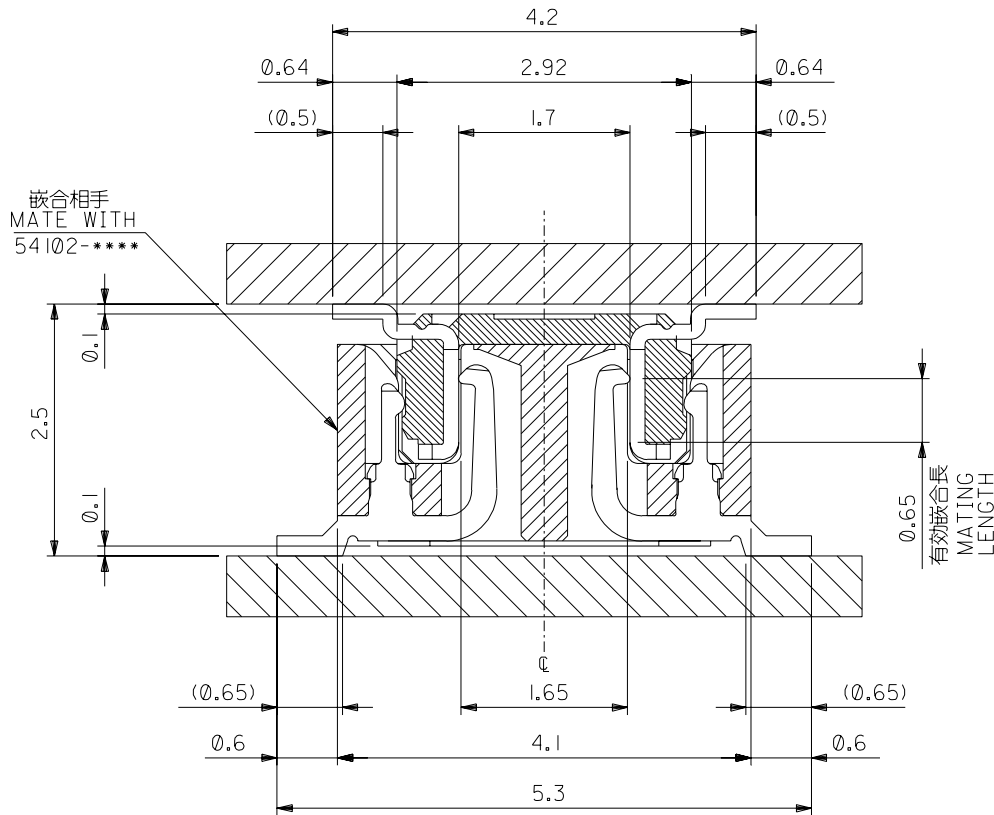
SECT.W-W(LOCK PART)



SECT.V-V(W/O LOCK PART)

ALL	8.05	7	8.95	500334-0308	30
	5.55	4.5	6.45	500334-0208	20
	4.55	3.5	5.45	500334-0168	16
LOCK POSITION	C	B	A	MATERIAL No. CIRCUIT	

DO NOT SCALE DRAWING	EC NO. DRWN: CH'K: APPR:	EC NO. DRWN: CH'K: APPR:	EC NO. DRWN: CH'K: APPR:	REVISED '04/03/22 EC NO. J2004-2899 DRWN: K.TOYODA CH'K: K.ASAKAWA APPR: S.ICHIKAWA	RELEASED '03/04/04 EC NO. J2003-2536 DRWN: T.YASUI CH'K: T.ITO APPR: T.YAMAGUCHI	MATERIAL 材料 注記参照 SEE NOTES	GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差	SCALE —//	MODEL No. DESIGN UNITS ☑mm ☐INCH	500334-***8	DIMENSIONS: ☐mm ☐INCH ☐mm ONLY	SHT REVISION	REV ON CAD ONLY
						FINISH 仕上げ —//	10 UNDER 未満	±0.2	DRAWN BY & DATE T.YASUI '03/ 4/ 4	TITLE: 0.5 BOARD TO BOARD Conn PLUG Assy (Hgt=2.5) -LEAD FREE-			
						WIRE RANGE 適用配線範囲 —//	10 OVER 30 UNDER 以上 未満	±0.25	CHECKED BY & DATE T.ITO '03/ 4/ 7				
						INS. RANGE 被覆外径 —//	30 OVER 以上	±0.3	APPROVED BY & DATE T.YAMAGUCHI '03/ 4/ 7	MOLEX INCORPORATED			
				A	Q	REV	ANGLE 角度	±3°	CAD FILENAME SD-500334-001.S01	MATERIAL NO. SEE CHART	DRAWING NO. SD-500334-001	SHEET NO. 1 OF 2	SIZE B



注記 NOTES:

1. 使用材料 MATERIAL
ハウジング: 液晶ポリマー (LCP), ガラス充填, UL94V-0, 色: 黒
HOUSING: LIQUID CRYSTAL POLYMER (LCP), GLASS FILLED
UL94V-0, COLOR: BLACK
ターミナル: 黄銅 (t=0.15)
TERMINAL: BRASS (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 (Au) 0.25 MICROMETER MINIMUM (CONTACT AREA)
金メッキ 0.4マイクロメートル以下 (テール部)
GOLD (Au) 0.4 MICROMETER 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 1.5 MICROMETER MINIMUM
3. (全極数/2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT/2) = EVEN.
4. 嵌合相手: 54102シリーズ
MATE WITH: 54102 SERIES.
5. テール平坦度は 0.1以下。
TAIL COPLANARITY TO BE 0.1 MAXIMUM.

嵌合断面図 (参考)

MATED DRAWING (REF.)

DRAWN BY & DATE T.YASUI '03/ 4/ 4		CHECKED BY & DATE T.ITO '03/ 4/ 7		APPROVED BY & DATE T.YAMAGUCHI '03/ 4/ 7		CAD FILENAME SD-500334-001.S02		MATERIAL NO. SEE CHART		DRAWING NO. SD-500334-001		SHEET NO. 2 OF 2	
TITLE: 0.5 BOARD TO BOARD Conn PLUG Assy (Hgt=2.5) -LEAD FREE-		MOLEX INCORPORATED		MATERIAL NO. SEE CHART		DRAWING NO. SD-500334-001		SHEET NO. 2 OF 2		SIZE B		EN-02J(097) MXJ-54	

MODEL No.	500334-***8	DIMENSIONS:		SHT	REV
DESIGN UNITS	☒ mm ☐ INCH	☐ mm	☐ INCH	☐ mm	☐ INCH
PROJECTION	☒ FIRST ANGLE				

GENERAL TOLERANCES: (UNLESS SPECIFIED)	SCALE	DESIGN UNITS	PROJECTION	TITLE:
10 UNDER 未満 ±0.2	1:1	☒ mm ☐ INCH	☒ FIRST ANGLE	0.5 BOARD TO BOARD Conn
10 OVER 以上 30 UNDER 未満 ±0.25				PLUG Assy (Hgt=2.5)
30 OVER 以上 ±0.3				-LEAD FREE-
ANGLE 角度 ±3°				

MATERIAL 材料	注記参照 SEE NOTES	FINISH 仕上げ	WIRE RANGE 適用電線範囲	INS. RANGE 被覆外径

DESCRIPTION	SEE SHEET 1 OF 2	REV

84 NO. DRAWN: CH'K: APPR:	63 NO. DRAWN: CH'K: APPR:	62 NO. DRAWN: CH'K: APPR:	61 NO. DRAWN: CH'K: APPR:	A	0
------------------------------	------------------------------	------------------------------	------------------------------	---	---

10

9

8

7

6

5

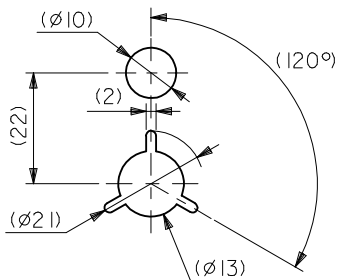
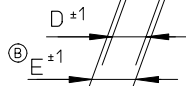
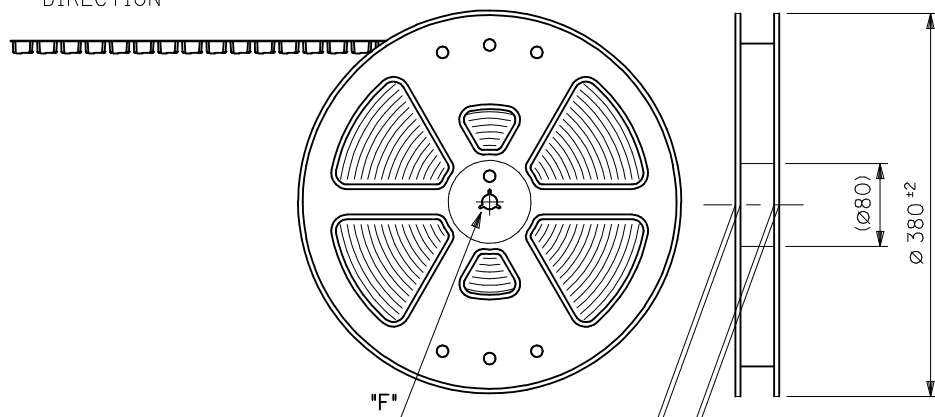
4

3

2

1

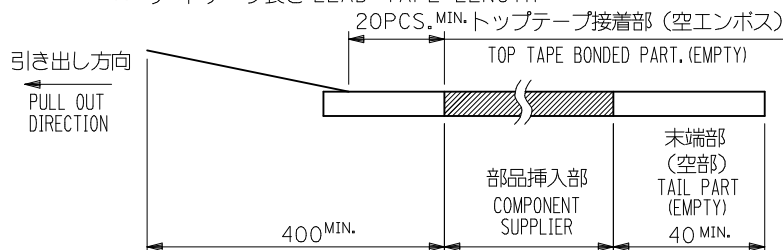
引き出し方向

PULL OUT
DIRECTION

DETAIL "F"

NOTES

- 製品詳細寸法については図面 SD-500334-001 を参照下さい。
RE DETAILED DIMENSION, SEE SD-500334-001
- 梱包数量：3000個／リール
NUMBER OF CONNECTORS：3000PCS/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 ～ 0.7N(10.2gf ～ 71.4gf)
(剥離方向は下図参照)

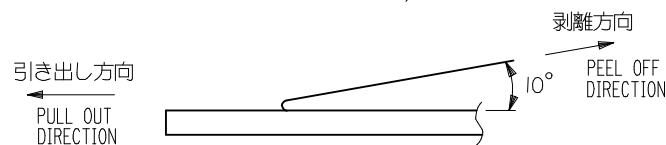
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)

PEELING OFF FORCE OF TOP TAPE：0.1N ～ 0.7N(10.2gf ～ 71.4gf)

(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)

THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.

PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTATION.



⑤ 5. 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：ポリエステル (PET)、ポリエチレン (PE)、ポリエチレンフォーム (PEF)

TOP TAPE：POLYESTER (PET)、POLYETHYLENE (PE)、POLYETHYLENEFOAM (PEF)

リール：ポリスチレン (PS) <リサイクル材を含む>

REEL：POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>

REVISED EC NO: J2009-2132 DRAWN: YOSHIKAWA 2009/03/19 CHKD: M. HAYASHI 2009/03/23 APPR: NUKITA 2009/03/24	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	N. YOSHIKAWA	2009/03/18	TITLE EMBSTP PKG FOR 0.5 B/B PLUG ASSY (HGT=2.5) -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	M. HAYASHI	2009/03/18					
		30 OVER	± 0.3	N. UKITA	2009/03/18	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-500334-002		1 OF 2		
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

9

8

7

6

5

4

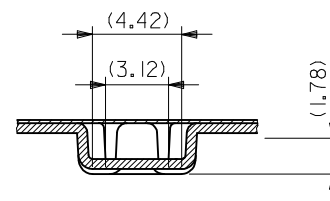
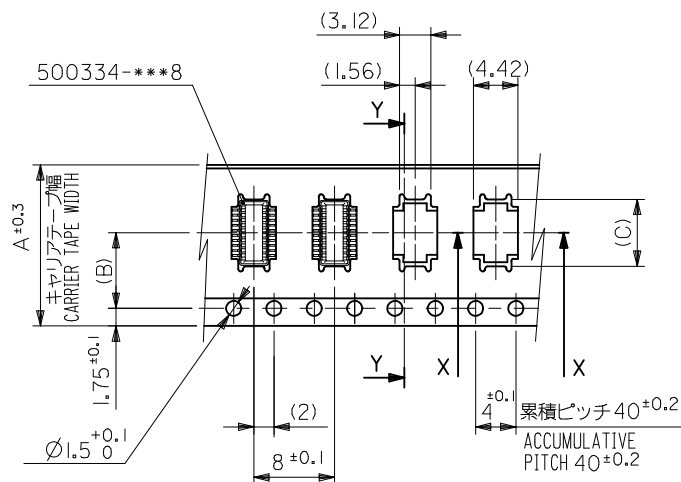
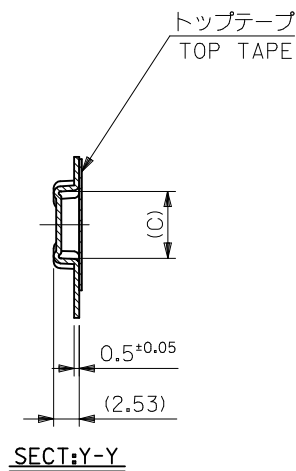
3

2

EN-02JA(021)

10 9 8 7 6 5 4 3 2 1

引き出し方向
PULL OUT DIRECTION



16mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

500334-***0	29.4	25.4	9.15	11.5	24	500334-0300	30
	21.4	17.4	6.65	7.5	16	500334-0200	20 ⑥
	21.4	17.4	5.65	7.5	16	500334-0160	16
MODEL NO.	⑥ E	⑥ D	(C)	(B)	A	MATERIAL No.	極致 CKT.

REVISED EC NO: J2009-2132 DRWN:YOSHIKAWA 2009/03/19 CHK'D:M. HAYASHI 2009/03/23 APPR:NUKITA 2009/03/24	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	N. YOSHIKAWA	2009/03/19	TITLE EMBSTP PKG FOR 0.5 B/B PLUG ASSY (HGT=2.5) -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	M. HAYASHI	2009/03/19					
		30 OVER	± 0.3	N. UKITA	2009/03/19	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-500334-002		2 OF 2			
	B	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							