

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

5003340300

Status:

Active

Overview:

[slimstack_050mm_020_pitch](#)

Description:

0.50mm (.020") Pitch SlimStack™ Plug, Surface Mount, Dual Row, Vertical, 2.50mm (.098") Stack Height, 30 Circuits

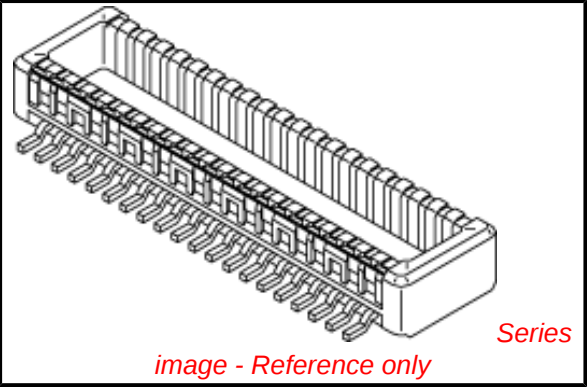


image - Reference only

Series

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-54102-010 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Headers
Series	500334
Application	Board-to-Board
Overview	slimstack_050mm_020_pitch
Product Name	SlimStack™

Physical

Breakaway	No
Circuits (Loaded)	30
Color - Resin	Black
Durability (mating cycles max)	30
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Mated Height (in)	0.098 In
Mated Height (mm)	2.50 mm
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Gold
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 PCB	No
Stackable	No
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	50V

Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-500334-001
Product Specification	PS-54102-010, RPS-54102-017
Sales Drawing	SD-500334-001, SD-500334-002

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
500334Series

Mates With
54102 SlimStack™ Receptacle

This document was generated on 05/26/2010

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DWG. NO.
SD-500334-001

F

D

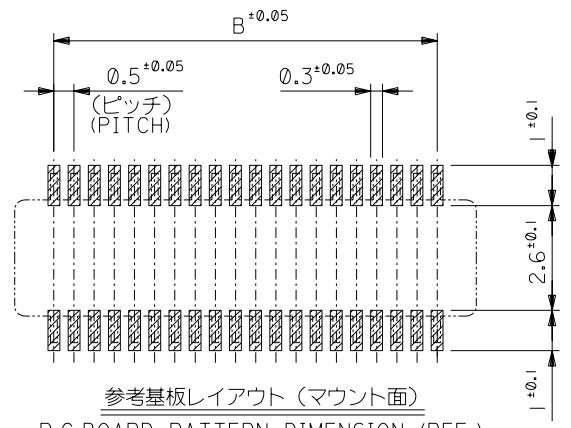
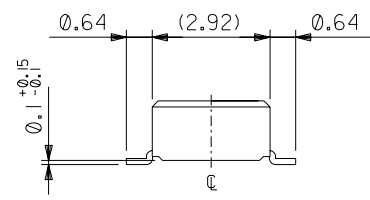
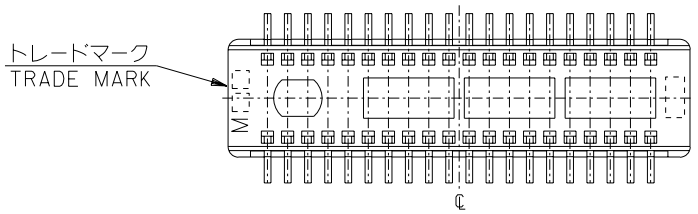
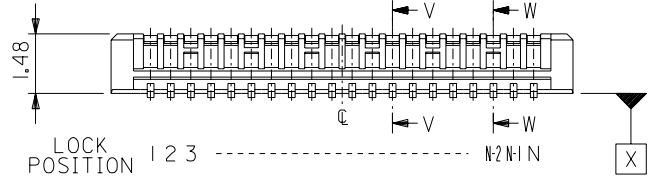
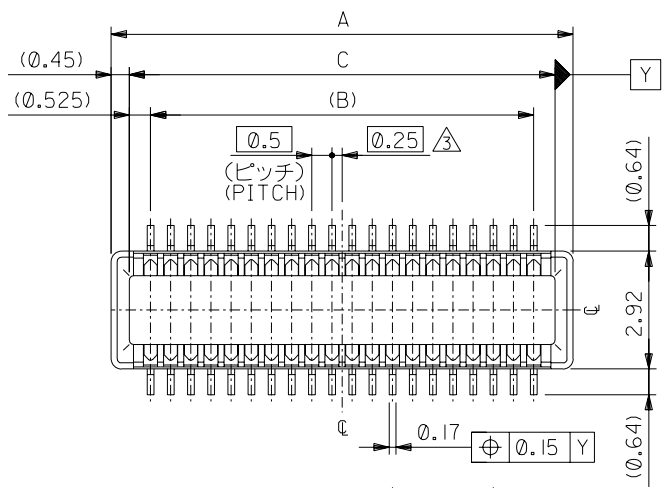
A

C

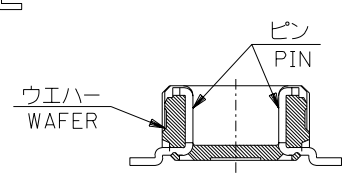
B

DO NOT SCALE DRAWING

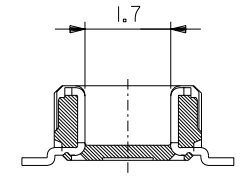
EC NO. DRWN: CH'K: APPR:	EC NO. DRWN: CH'K: APPR:	EC NO. DRWN: CH'K: APPR:	REVISED '04/03/22 EC NO. J2004-2899 DRWN: K.TOYODA CH'K: K.ASAKAWA APPR: S.ICHIKAWA	RELEASED '03/04/04 EC NO. J2003-2536 DRWN: T.YASUI CH'K: T.IITO APPR: T.YAMAGUCHI	DESCRIPTION	MATERIAL 材料	
					FINISH 仕上	注記参照 SEE NOTES	
					WIRE RANGE 適用電線範囲	—//—	
A				Q	REV	INS. RANGE 被覆外径	—//—



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



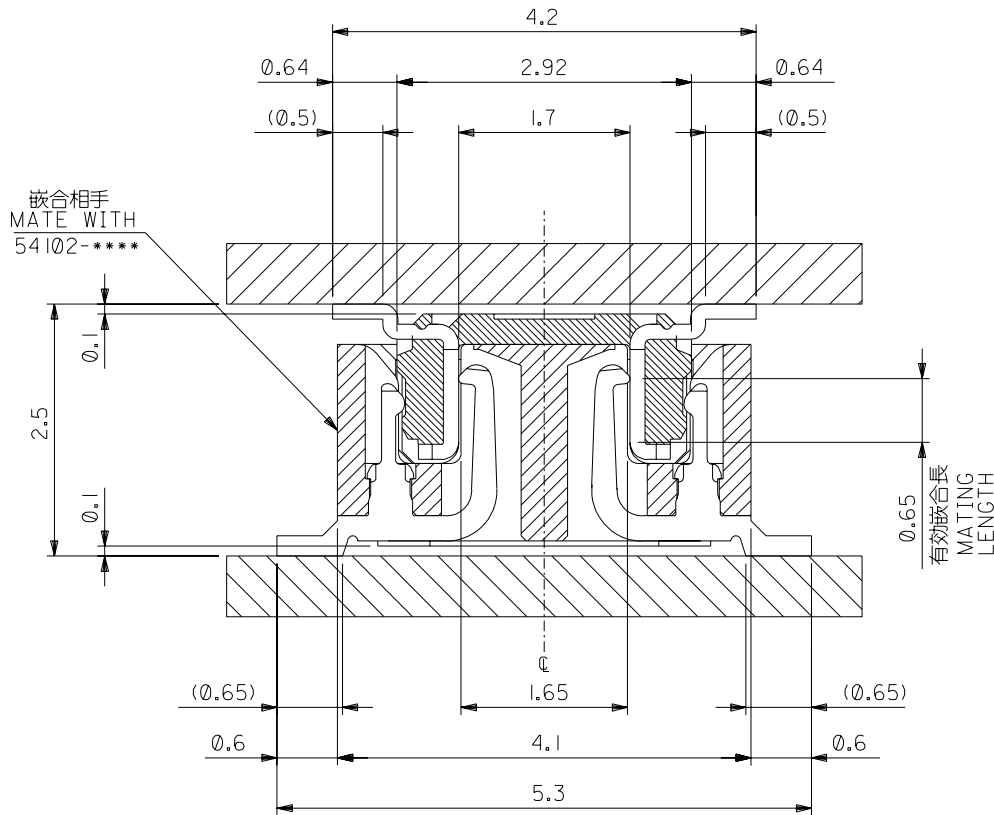
SECT.W-W(LOCK PART)



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

MODEL No. 500334-***8	DIMENSIONS: ☐ mm ☐ INCH ☒ mm ONLY	SHT REV
DESIGN UNITS ☒ mm ☐ INCH	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
DRAWN BY & DATE T.YASUI '03/ 4/ 4	TITLE: 0.5 BOARD TO BOARD Conn PLUG Assy (Hgt=2.5) -LEAD FREE-	
CHECKED BY & DATE T.IITO '03/ 4/ 7	MOLEX INCORPORATED	
APPROVED BY & DATE T.YAMAGUCHI '03/ 4/ 7	MATERIAL No. SEE CHART	DRAWING No. SD-500334-001
CAD FILENAME SD-500334-001.S01	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	
SHEET No. 1 OF 2		SIZE B



嵌合断面図 (参考)
MATED DRAWING (REF.)

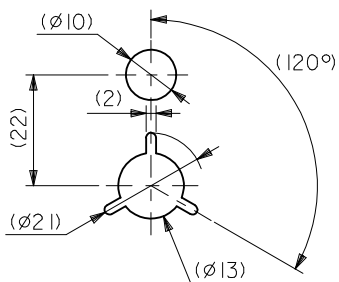
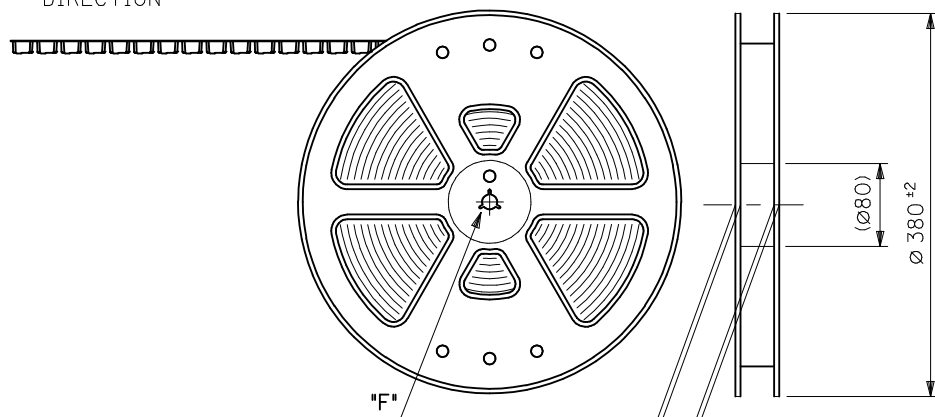
注記 NOTES:

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.

E64NO. DRWN: CHK: APPR:		E63NO. DRWN: CHK: APPR:		E62NO. DRWN: CHK: APPR:		E61NO. DRWN: CHK: APPR:		SEE SHEET 1 OF 2 E60NO. DRWN: CHK: APPR:		DESCRIPTION MATERIAL 材料 注記参照 SEE NOTES		GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差		SCALE —//		MODEL No. DESIGN UNITS 500334-***8 mm INCH mm INCH		DIMENSIONS: mm INCH mm INCH		SHT REV	
A		Q		FINISH 仕上げ —//		WIRE RANGE 適用電線範囲 —//		INS. RANGE 被覆外径 —//		ANGLE 角度 ±3°		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		TITLE: 0.5 BOARD TO BOARD Conn PLUG Assy (Hgt=2.5) -LEAD FREE-	
EN-02J(097) MXJ-54		MATERIAL NO. SEE CHART		DRAWING NO. SD-500334-001		SHEET NO. 2 OF 2		SIZE B		INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		MOLEX INCORPORATED									

10 9 8 7 6 5 4 3 2 1

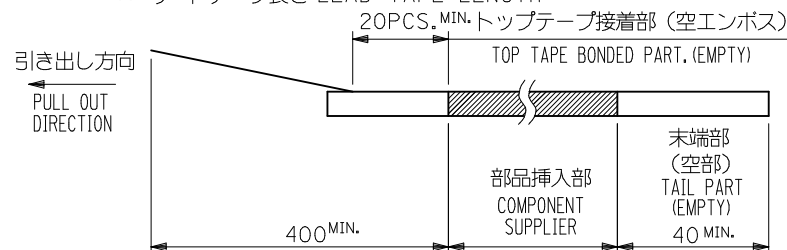
引き出し方向
PULL OUT
DIRECTION



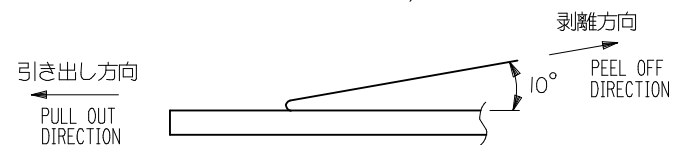
DETAIL "F"

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.



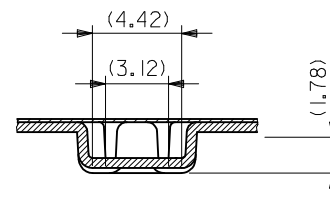
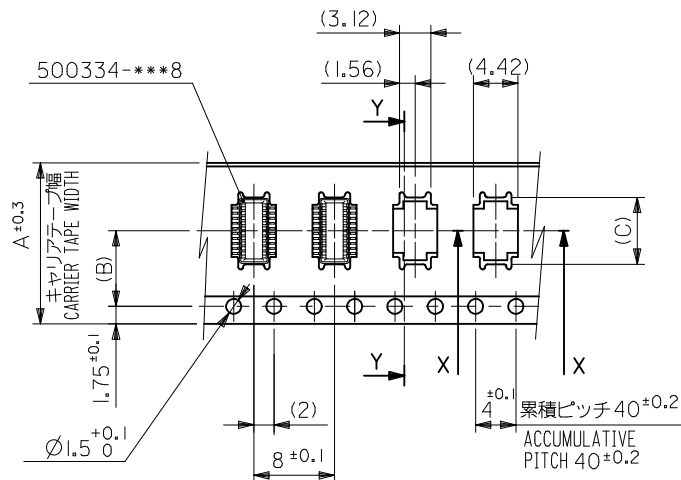
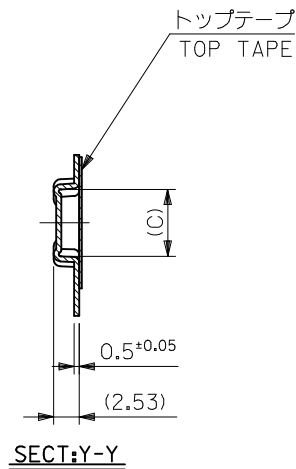
⑤ 5. 材料 MATERIAL

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 DRWN: YOSHIKAWA 2009/03/19 CHKD: M. HAYASHI 2009/03/23 APPR: NUKITA 2009/03/24	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION	
				MM ONLY		---	METRIC		
		10 UNDER	± 0.2	DRAWN BY N. YOSHIKAWA	DATE 2009/03/18	TITLE EMBSTP PKG FOR 0.5 B/B PLUG ASSY (HGT=2.5) -LEAD FREE-			
		10 OVER 30 UNDER	± 0.25	CHECKED BY M. HAYASHI	DATE 2009/03/18				
		30 OVER	± 0.3	APPROVED BY N. UKITA	DATE 2009/03/18	 MOLEX INCORPORATED			
	ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
	B	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-500334-002		1 OF 2
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

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.			DOCUMENT NO.			SHEET 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							