

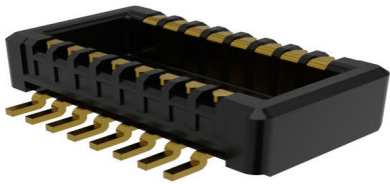
Part Number : [5003340160](#)

Product Description : 0.50mm Pitch SlimStack Plug,
Surface Mount, Dual Row, Vertical, 2.50mm Stack
Height, 16 Circuits

Series Number : 500334

Status : Active

Product Category : Board-to-Board Connectors



Documents and Resources

Drawings

[5003340160_sd.pdf](#)

3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

Specifications

[SPK-500334-001-001.pdf](#)

[PS-54102-010-001.pdf](#)

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 44; 33
China RoHS	per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2025)7771-DC (04 Feb 2026)
EU RoHS	Compliant per EU 2015/863

[Compliance Statements](#)

- EU RoHS
- REACH SVHC
- Low-Halogen

[Industry Documents](#)

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest

- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

Part Details

General

Status	Active
Category	Board-to-Board Connectors
Series	0.5, BB H2.5
Description	0.50mm Pitch SlimStack Plug, Surface Mount, Dual Row, Vertical, 2.50mm Stack Height, 16 Circuits
Application	Board-to-Board
Component Type	Plug
Product Name	SlimStack
UPC	756054527047

Agency

UL	E29179
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Electrical

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

Physical

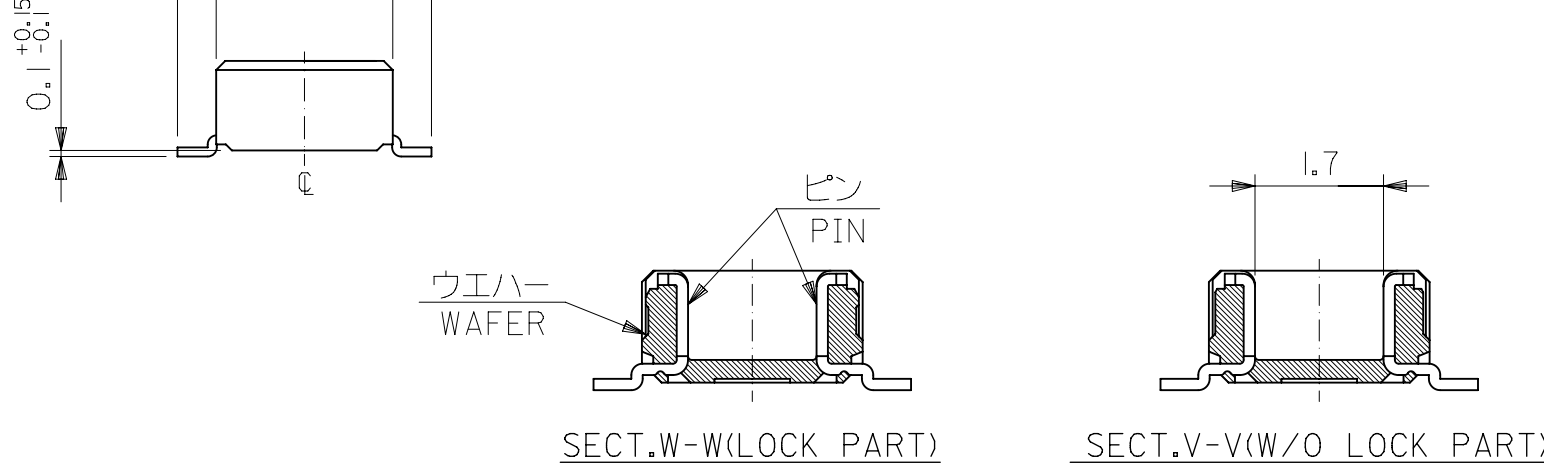
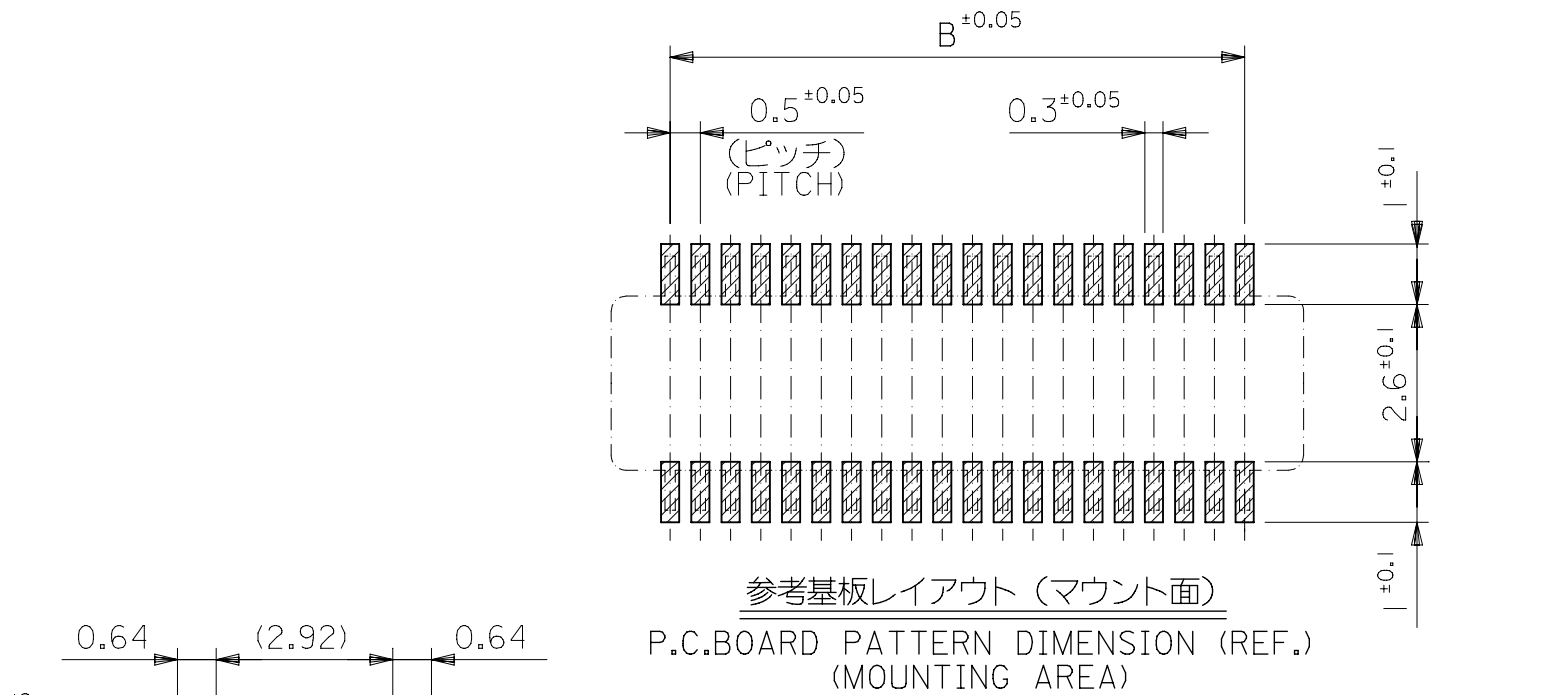
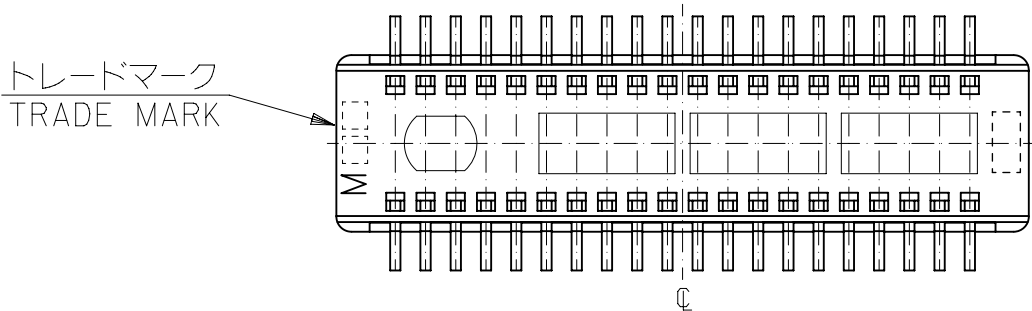
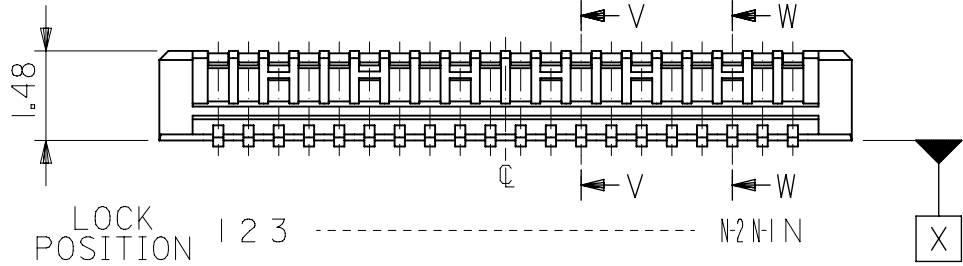
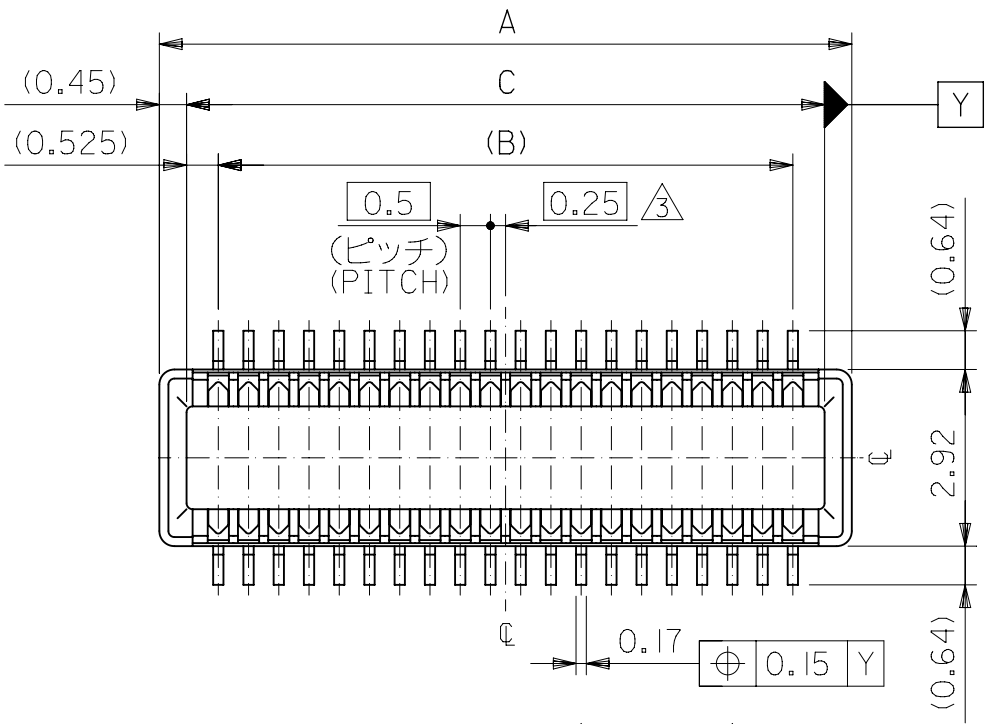
Breakaway	No
Circuits (Loaded)	16
Circuits (maximum)	16
Color - Resin	Black

Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Capable	No
Guide to Mating Part	No
Keying to Mating Part	No
Lock to Mating Part	Yes
Mated Height	2.50mm
Mated Width	5.30mm
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Net Weight	32.629/mg
Number of Rows	2
Orientation	Vertical
Packaging Type	Embossed Tape on Reel
PCB Locator	No
PCB Retention	No
Pitch - Mating Interface	0.50mm
Polarized to PCB	No
Temperature Range - Operating	-40° to +105°C
Termination Interface Style	Surface Mount

Mates With / Use With

Mates with Part(s)

Description	Part Number
0.50mm Pitch Vertical SlimStack Receptacles	<u>54102</u>

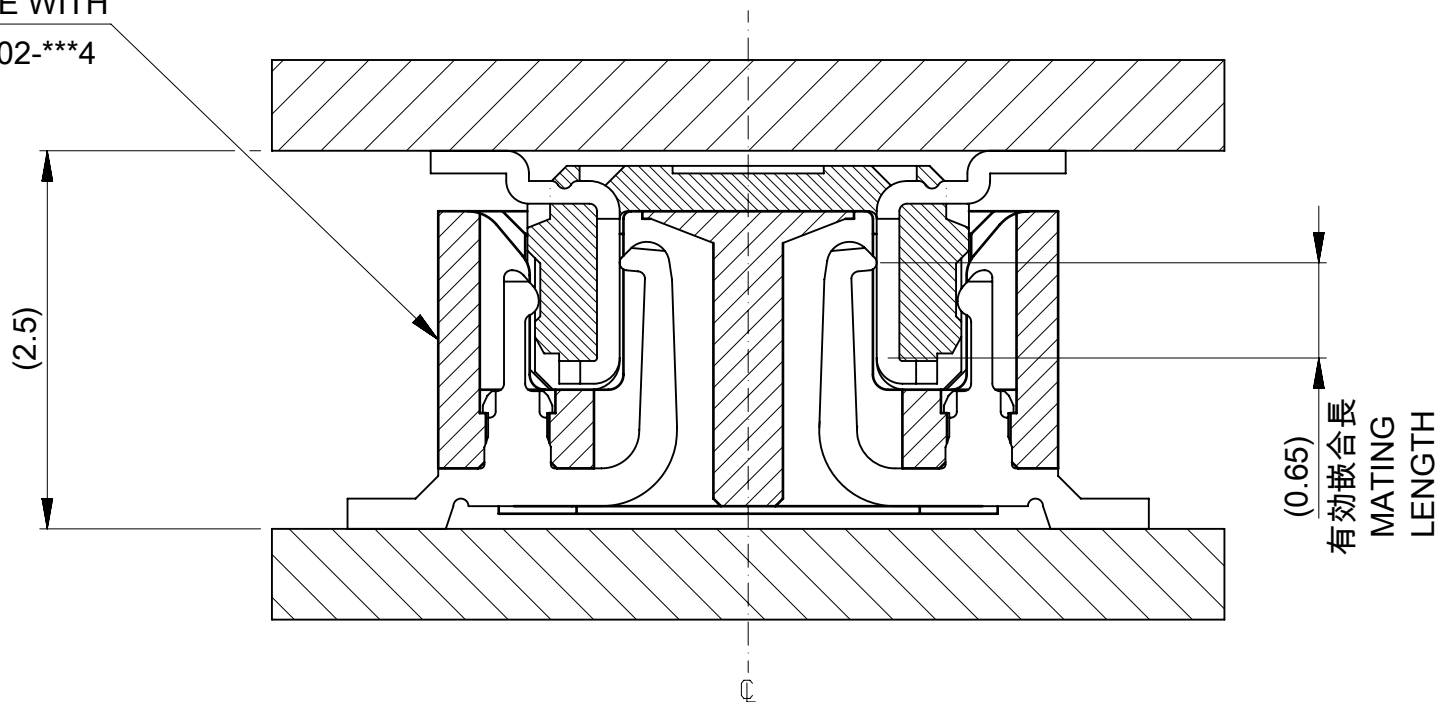


NONE	20.55	19.5	21.45	500334-0800	80
ALL	4.55	3.5	5.45	500334-0160	16
LOCK POSITION	C	B	A	EMBOSSED TAPE PACKAGE	CIRCUIT
				ORDER No.	

CONNECTOR SERIES No. 500334-***8

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC: REVISED				molex	
mm		8:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)		GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 642297 DRWN: BJAYARAM CHK'D: HSHIMOYAMA APPR: SHOSHIKAWA INITIAL REVISION: DRWN: TYASUI APPR: TOITO				0.5 MM PITCH B-TO-B CONN. HEIGHT = 2.5 PLUG	
		ANGULAR TOL ± 30°							
		4 PLACES ± 0.2							
		3 PLACES ± 0.25							
		2 PLACES ± 0.3							
1 PLACE ±		1 PLACE ±		2020/09/04 2020/11/30 2020/11/30				PRODUCT CUSTOMER DRAWING	
0 PLACES ±		0 PLACES ±							
ANGULAR ±3°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						A3-SIZE		500334	
GENERAL TOLERANCES (UNLESS SPECIFIED)		± 0.2		2020/09/04		DOCUMENT NUMBER SD-500334-001			
10 ^{UNDER}		± 0.25		2020/11/30					
10 ^{OVER} 30 ^{UNDER}		± 0.3		2020/11/30					
30 ^{OVER}		± 0.3		2020/04/17		2020/04/18		DOC TYPE PSD	
ANGULAR ±3°		0 PLACES ±		2020/04/17		2020/04/18		DOC PART 001	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SHEET NUMBER 1 OF 2	
						A3-SIZE		500334	
								SEE CHART	
								GENERAL	
								1 OF 2	

嵌合相手
MATE WITH
54102-***4



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 (テール部)
GOLD PLATING (SOLDER 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 (嵌合高さ = 2.5mm)
MATE WITH : 54102 SERIES. (HEIGHT =2.5mm)
5. テール平坦度は 0.1 以下。
TAIL COPLANARITY TO BE 0.1 MAXIMUM.

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REVISED			molex								
mm		20:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 642297 DRWN: BJAYARAM 2020/09/04 CHK'D: HSHIMOYAMA 2020/11/30 APPR: SHOSHIKAWA 2020/11/30 INITIAL REVISION: DRWN: TYASUI 2003/04/17 APPR: TOITO 2003/04/18			0.5 MM PITCH B-TO-B CONN. HEIGHT = 2.5 PLUG								
										PRODUCT CUSTOMER DRAWING					
							DOCUMENT NUMBER						DOC TYPE	DOC PART	REVISION
							SD-500334-001						PSD	001	C
							DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION		
						A3-SIZE		500334		SEE CHART		GENERAL		2 OF 2	

NOTES

1. 製品詳細寸法については図面 SD-500334-001 を参照下さい。
DETAIL DIMENSION, SEE SD-500334-001
2. 梱包数量：3000個／リール
NUMBER OF CONNECTORS：3000PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH

引き出し方向
PULL OUT
DIRECTION

引き出し方向
PULL OUT
DIRECTION

20PCS. MIN. トップテープ接着部 (空エンボス)
TOP TAPE BONDED PART. (EMPTY)

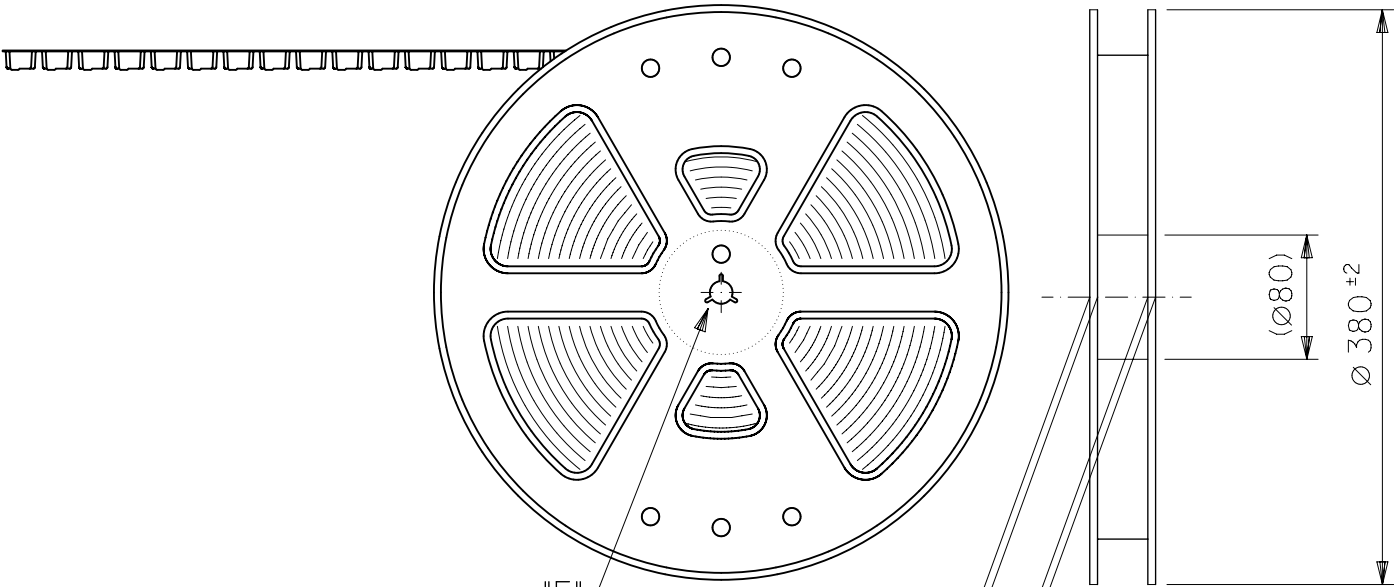
部品挿入部
COMPONENT
SUPPLIER

末端部
(空部)
TAIL PART
(EMPTY)
40 MIN.

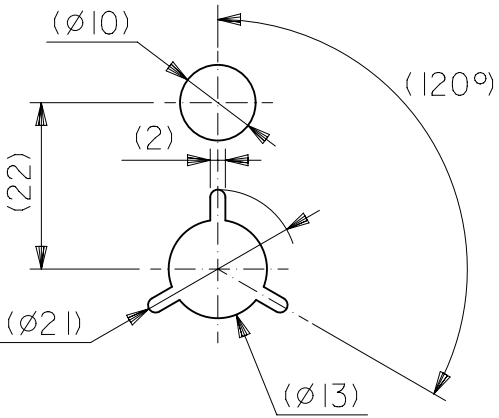
400 MIN.

4. カバーテープの剥離強度については、IEC60286-3に準拠
COVER TAPE PEEL FORCE IS DEFINED BY IEC60286-3.

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>

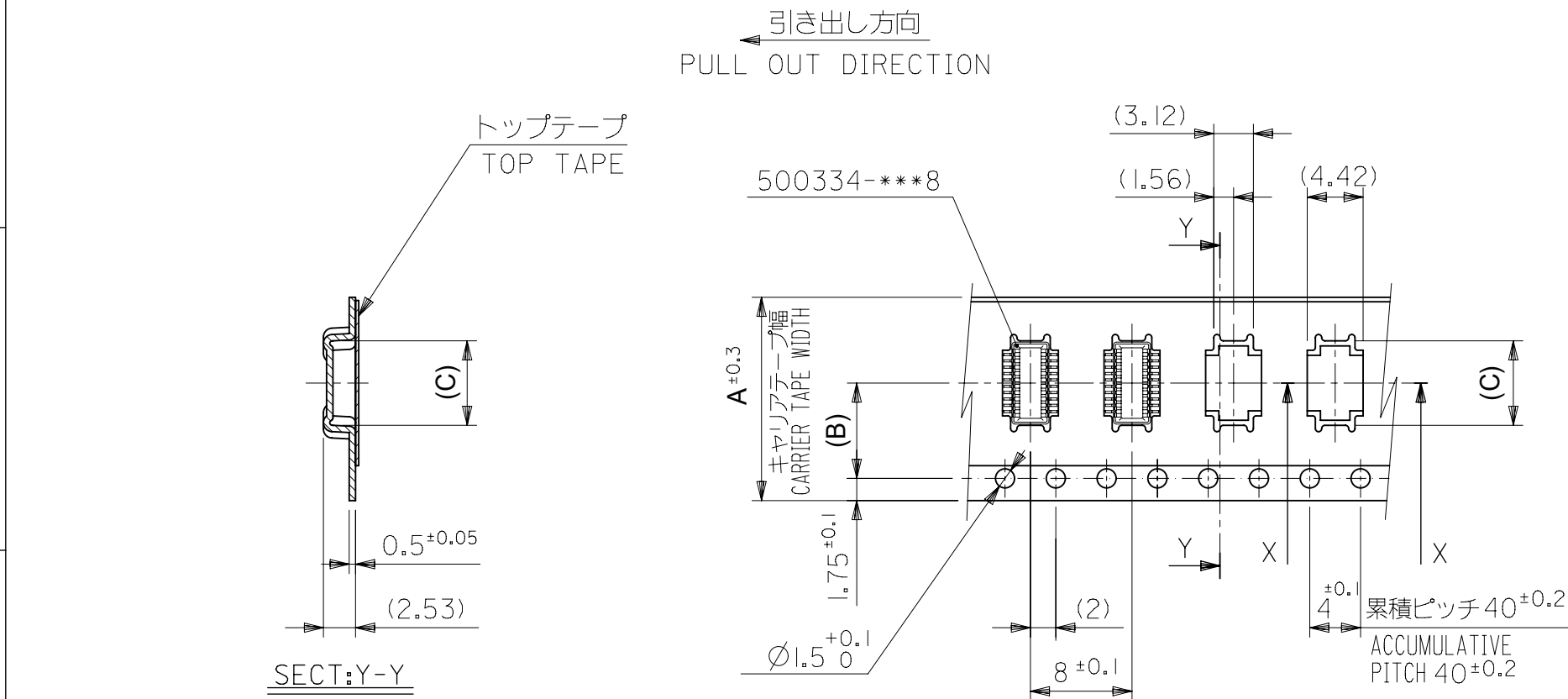


D ±1
E ±1



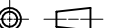
DETAIL "F"

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
CURRENT REV DESC: REVISED		molex 0.5 MM PITCH B-TO-B CONN. HEIGHT = 2.5 PLUG EMBOSS TAPE PACKAGE PRODUCT CUSTOMER DRAWING											
DIMENSION UNITS		SCALE		EC NO: 642297		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
mm		NTS		DRWN: BJAYARAM		SD-500334-002		PSD		001		D	
GENERAL TOLERANCES (UNLESS SPECIFIED)				2020/09/09									
ANGULAR TOL ± 30 °				CHK'D: HSHIMOYAMA									
4 PLACES ± 0.2				2020/11/30									
3 PLACES ± 0.25				APPR: SHOSHIKAWA		2020/11/30							
2 PLACES ± 0.3				INITIAL REVISION:									
1 PLACE ±				DRWN: TYASUI		2003/05/06							
0 PLACES ±				APPR: TOITO		2003/05/07							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				A3-SIZE		500334		SEE SHEET 2-3		GENERAL		1 OF 3	

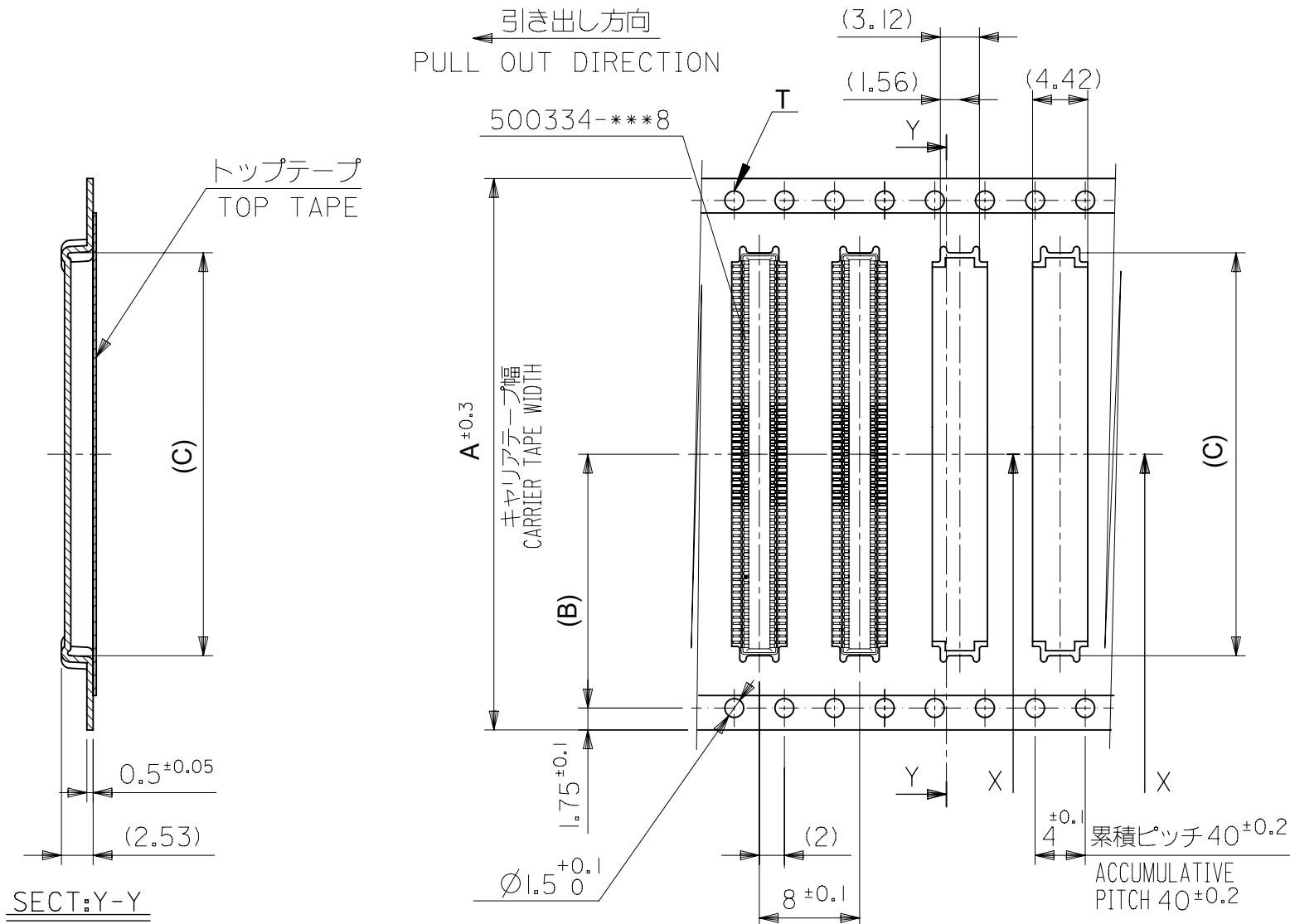


16mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

21.4	17.4	5.65	7.5	16	500334-0160	16
E	D	(C)	(B)	A	EMBOSSED TAPE PACKAGE	極数
					ORDER No.	CKT

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REVISED				molex	
mm		NTS							
GENERAL TOLERANCES (UNLESS SPECIFIED)								EC NO: 642297 DRWN: BJAYARAM 2020/09/09 CHK'D: HSHIMOYAMA 2020/11/30 APPR: SHOSHIKAWA 2020/11/30	
ANGULAR TOL		± 0.0 °							
4 PLACES		± 0.2							
GENERAL TOLERANCES (UNLESS SPECIFIED)		3 PLACES		± 0.25		INITIAL REVISION: DRWN: TYASUI 2003/05/06 APPR: TOITO 2003/05/07			
		2 PLACES		± 0.3					
10 ^{UNDER}		±0.2		1 PLACE		±		DOCUMENT NUMBER SD-500334-002	
10 ^{OVER} 30 ^{UNDER}		±0.25		0 PLACES		±			
30 ^{OVER}		±0.3		ANGULAR ±3°				DOC TYPE PSD	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DOC PART 001	
						DRAWING A3-SIZE		REVISION D	
						SERIES 500334		SHEET NUMBER 2 OF 3	
						MATERIAL NUMBER SEE CHART		CUSTOMER GENERAL	

DOCUMENT STATUS	P1	RELEASE DATE	2020/11/30	03:37:29
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44mm幅キャリアテープ
44mm WIDTH CARRIER TAPE

49.4	45.4	21.65	20.2	44	500334-0800	80
E	D	(C)	(B)	A	EMBOSSED TAPE PACKAGE	極数
					ORDER No.	CKT

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: REVISED		molex		
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 642297 DRWN: BJAYARAM CHK'D: HSHIMOYAMA APPR: SHOSHIKAWA		0.5 MM PITCH B-TO-B CONN. HEIGHT = 2.5 PLUG EMBOSS TAPE PACKAGE		
GENERAL TOLERANCES (UNLESS SPECIFIED)		INITIAL REVISION:		PRODUCT CUSTOMER DRAWING		
10 ^{UNDER}		DRWN: TYASUI		DOCUMENT NUMBER		
10 ^{OVER} 30 ^{UNDER}		APPR: TOITO		SD-500334-002		
30 ^{OVER}		THIRD ANGLE PROJECTION		DOC TYPE		
ANGULAR ±3°		DRAWING		PSD		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SERIES		001		
		MATERIAL NUMBER		D		
		CUSTOMER		3 OF 3		
		SHEET NUMBER				