

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [5022312400](#)
Status: **Active**
Description: 0.50mm (.020") Pitch Easy-On™ Type FFC/FPC Connector, For LVDS, 6.05mm (.238") Height, Vertical, SMT, ZIF, 24 Circuits, Lead-free

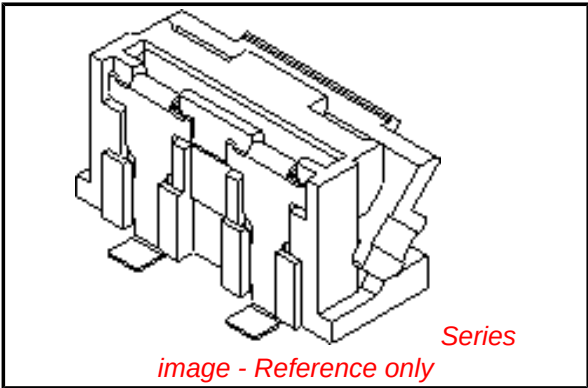
Documents:
[3D Model](#) [Product Specification PS-502231-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General	
Product Family	FFC/FPC Connectors
Series	502231
Product Name	Easy-On™
Physical	
Circuits (Loaded)	24
Color - Resin	Brown, Natural
Contact Position	Top
Durability (mating cycles max)	20
Entry Angle	Vertical
Mated Height (in)	0.238 In
Mated Height (mm)	6.05 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold, Tin
Material - Plating Termination	Gold, Tin
Number of Rows	1
Orientation	Vertical
PCB Locator	No
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.020 In
Pitch - Mating Interface (mm)	0.50 mm
Pitch - Term. Interface (in)	0.020 In
Pitch - Term. Interface (mm)	0.50 mm
Polarized to PCB	Yes
Stackable	No
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Surface Mount
Wire/Cable Type	FFC only

Electrical	
Current - Maximum per Contact	0.4A
Voltage - Maximum	50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers	
Product Specification	PS-502231-001, RPS-502231-001
Sales Drawing	SD-502231-001, SD-502231-002



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Not Reviewed

China RoHS



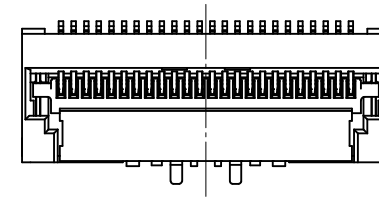
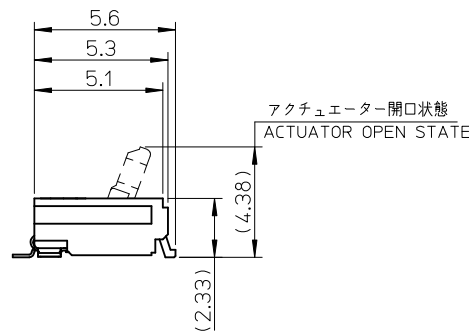
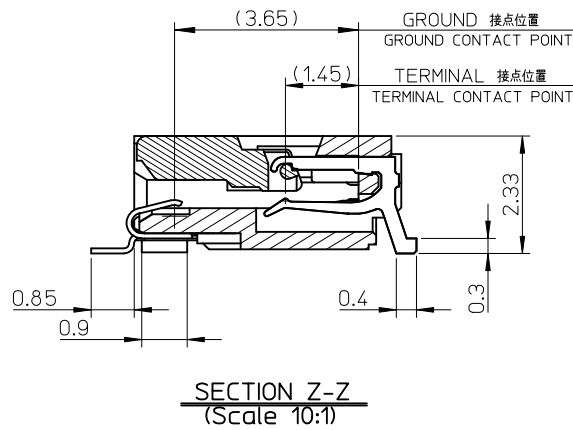
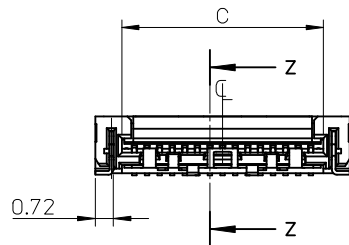
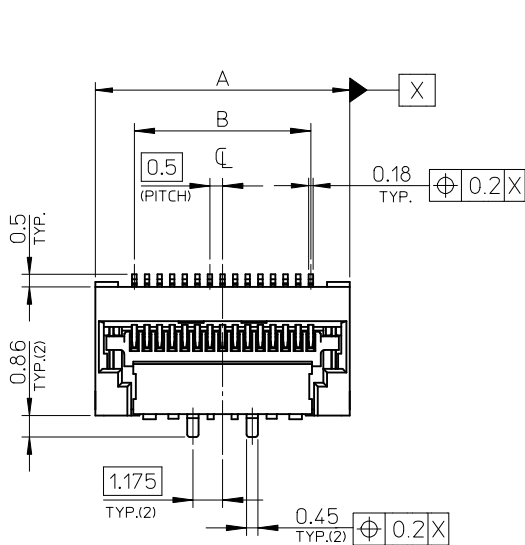
Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

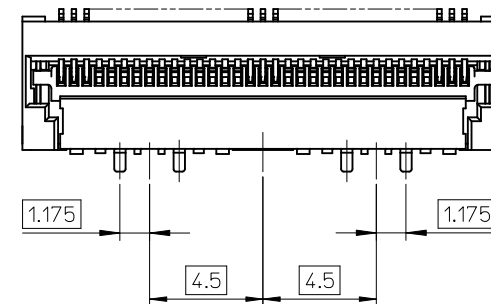
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[502231Series](#)

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



24極品形状



33極品形状

17	16	19.1	502244-3330	33
12.5	11.5	14.6	502244-2430	24
8	7	10.1	502244-1530	15
C	B	A	EMBOSSED TAPE	CIRCUIT
			ORDER No.	
CONNECTOR SERIES No.502244-**39				

REVISED EC NO. J2010-1947 DRWN: NISHI CHKD: MATSUURA APPR: KIMORI KAWA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		10 UNDER	± 0.2	DRAWN BY THANYU	DATE '06/03/10	TITLE 0.5 FFC CONN. FOR LVDS HOUSING ASSY (BOTTOM CONTACT)			
		10 OVER 30 UNDER	± 0.25	CHECKED BY SMARUYAMA	DATE '06/03/10				
		30 OVER	± 0.3	APPROVED BY SICHIKAWA	DATE '06/03/10	MOLEX INCORPORATED			
		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-502244-001		1 OF 3	
	REV				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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, ナチュラル (白)
HOUSING: LIQUID CRYSTAL POLYMER (LCP),
GLASS FILLED, UL94V-0, NATURAL (WHITE)

アクチュエーター ACTUATOR
(15, 33極): ポリアミド (PA), ガラス充填, UL94V-0, 黒
(24極): ポリフェニレンスルファイド (PPS), ガラス充填, UL94V-0, 黒
(15, 33CKT): POLYAMIDE (PA), GLASS FILLED, UL94V-0, BLACK
(24CKT): POLYPHENYLENESULFIDE (PPS), GLASS FILLED,
UL94V-0, BLACK

ターミナル: 焼青銅
TERMINAL: PHOSPHOR BRONZE
ネイル: 焼青銅
NAIL: PHOSPHOR BRONZE
グラウンド: 焼青銅
GROUND: PHOSPHOR BRONZE

2.メッキ仕様

PLATING SPECIFICATION

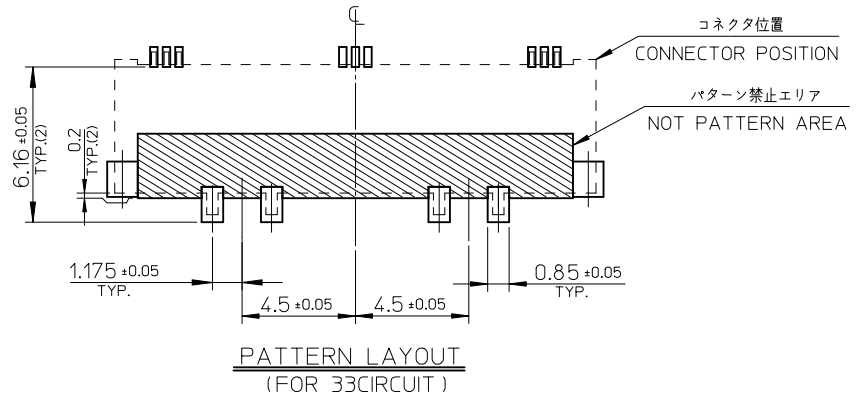
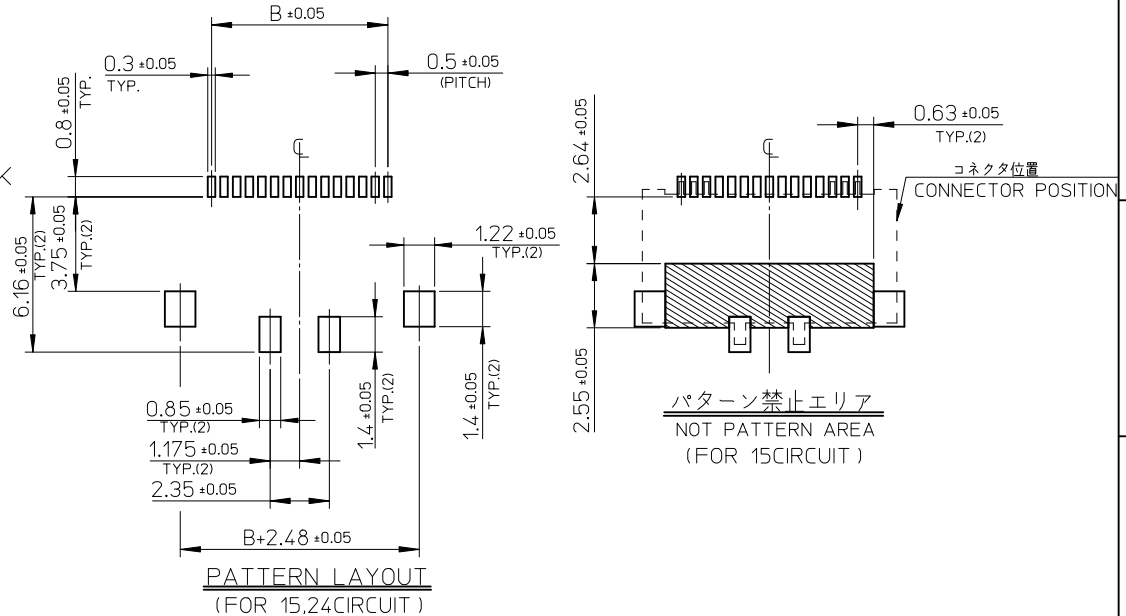
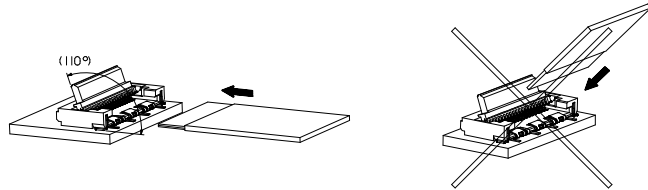
ターミナルコンタクト部: 部分金メッキ (0.1μm以上)
TERMINAL CONTACT: SEPARATED GOLD PLATING (0.1μmMIN.)
ターミナルテール部: 部分金メッキ (0.05μm以上)
TERMINAL TAIL: SEPARATED GOLD PLATING (0.05μmMIN.)
ターミナル下地: ニッケルメッキ (1.0μm以上)
TERMINAL UNDERPLATE: NICKEL PLATING (1.0μmMIN.)
ネイル: 銅メッキ (1.0μm以上)
NAIL: TIN PLATING (1.0μmMIN.)
ネイル下地: ニッケルメッキ (1.0μm以上)
NAIL UNDERPLATE: NICKEL PLATING (1.0μmMIN.)
グラウンド: 銅メッキ (1.0μm以上)
GROUND: TIN PLATING (1.0μmMIN.)
グラウンド下地: ニッケルメッキ (1.0μm以上)
GROUND UNDERPLATE: NICKEL PLATING (1.0μmMIN.)

3.エンボステープ梱包時は、アクチュエーターが閉じた状態とする。

IN THE PACKAGE, ACTUATOR SHOULD BE CLOSED.

△使用するFFCはターミナル用パターン導体部とグラウンドターミナル用パターン導体部が重ならないこと。
FFC IS NOT OVER LAP PATTERN OF TERMINAL
AND GROUND TERMINAL.

5.FFCの挿入はアクチュエーターが完全に開いた状態でを行い、挿入口より真っ直ぐ
ハウジングに突き当たるまで挿入してください。
DO WITH THE ACTUATOR OPENED COMPLETELY
AND INSERT IT IN THE INTERIOR OF THE INSERTION
ENTRANCE SURELY WHEN YOU INSERT FFC.
6.ELV AND RoSH COMPLIANT.



REVISED		DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO.	J2010-1947	DRWN:	NIISHI	2010/03/18		DRAWN BY	DATE	TITLE			
CH'KD:	WATSUURA	2010/03/18				CHECKED BY	DATE				
APPR:	KMORIKAWA	2010/03/29				APPROVED BY	DATE				
REV						SICHIKAWA	'06/03/10				
						MATERIAL NO.					
						SEE SHEET 1					
						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

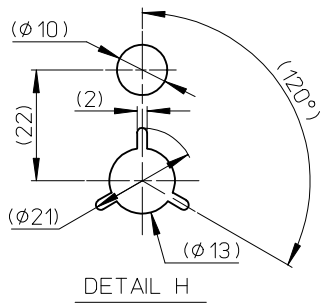
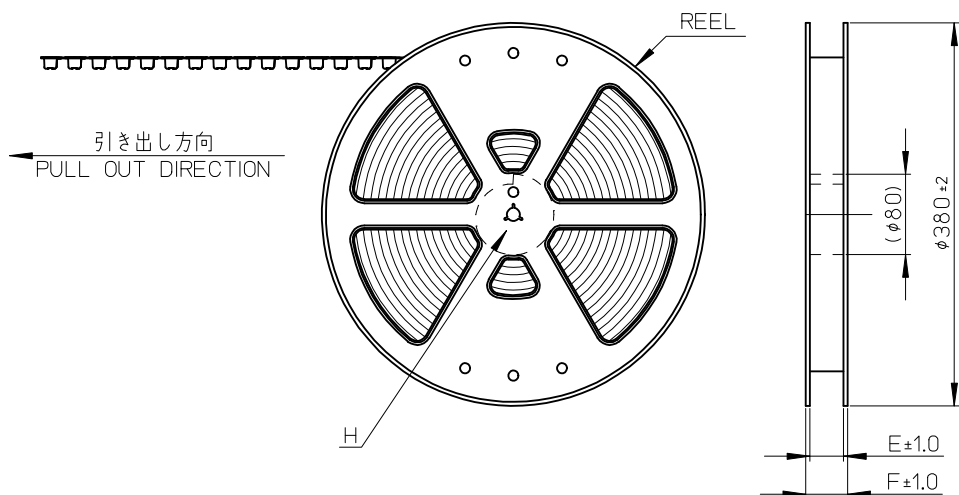
5

4

3

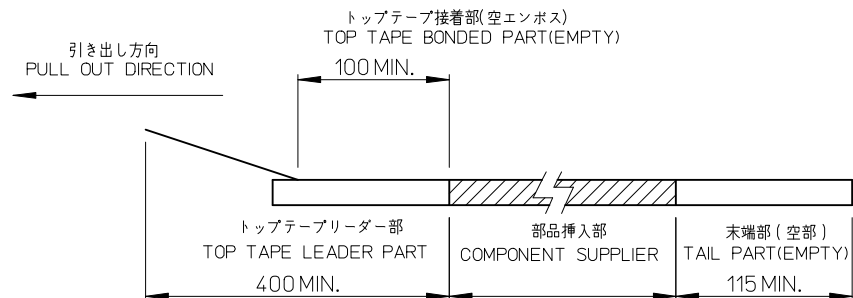
2

1



NOTES

- 製品詳細寸法につきましては、製品単体図面を参照して下さい。
FOR DETAIL OF CONNECTOR DIMENSIONS.
PLEASE SEE THE DRAWING OF CONNECTOR ITSELF (NOT PACKAGED).
- 梱包数量: 2500個/リール
NUMBER OF CONNECTORS : 2500PCS/REEL
- リードテープの長さ
LEAD TAPE LENGTH



- 材料
MATERIAL
キャリアテープ : ポリスチレン (PS)
CARRIER TAPE : POLYSTYRENE (PS)
トップテープ : PET, OTHER
TOP TAPE : PET, OTHER
リール : ポリスチレン (リサイクル材を含む)
REEL : POLYSTYRENE (RECYCLE MATERIAL CONTAINED)

5.ELV AND RoHS COMPLIANT

REVISED EC NO: J2009-1513 DRWN:MTAKASAKI CHKD:MIYASHI APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY NNISHI	DATE '06/5/22	TITLE 0.5 FFC CONN.FOR LVDS HOUSING ASSY EMBSTP PKG				
		10 OVER 30 UNDER	± 0.25	CHECKED BY SMARUYAMA	DATE '06/5/22					
		30 OVER	± 0.3	APPROVED BY SICHIKAWA	DATE '06/5/22	MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO. SEE SHEET 2		DOCUMENT NO. SD-502244-002		SHEET NO. 1 OF 3		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								
	REV		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

10 9 8 7 6 5 4 3 2 1

F

E

D

C

B

A

F

E

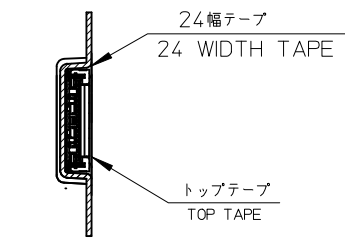
D

C

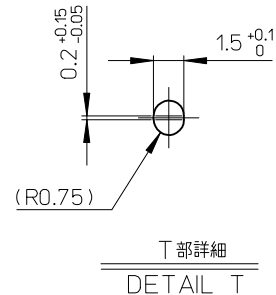
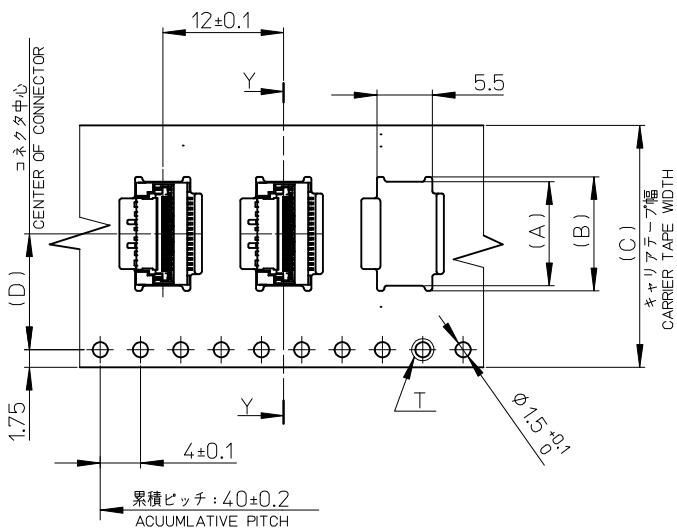
B

A

引き出し方向
PULL OUT DIRECTION



断面Y-Y
SECTION Y-Y



29.4	25.4	11.5	24	15.8	14.8	502244-2439	502244-2430	24
				11.3	10.3	502244-1539	502244-1530	15
F	E	(D)	(C)	(B)	(A)	製品単体 CONNECTOR	製品番号 MATERIAL NO.	極数 CIRCUITS

REVISED EC NO: J2009-1513 DRWN:MTAKASAKI CHKD:MHAYASHI APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY NNISHI	DATE '06/5/22	TITLE 0.5 FFC CONN.FOR LVDS HOUSING ASSY EMBSTP PKG				
		10 OVER 30 UNDER	±0.25	CHECKED BY SMARUYAMA	DATE '06/5/22					
		30 OVER	±0.3	APPROVED BY SICHIKAWA	DATE '06/5/22	MOLEX MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-502244-002				2 OF 3	
	REV				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

F

E

D

C

B

A

F

E

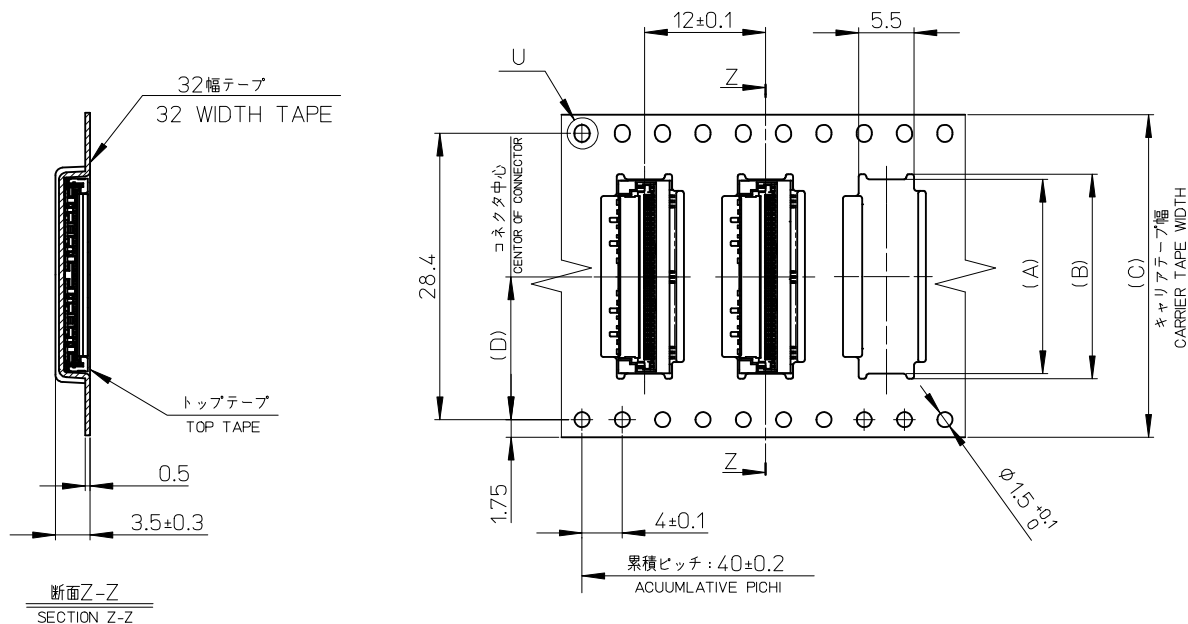
D

C

B

A

引き出し方向
PULL OUT DIRECTION



37.4	33.4	14.15	32	20.3	19.3	502244-3339	502244-3330	33
F	E	(D)	(C)	(B)	(A)	製品単体 CONNECTOR	製品番号 MATERIAL NO.	極数 CIRCUITS

REVISED EC NO: J2009-1513 DRWN:MTAKASAKI CHKD:MHAYASHI APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY NNISHI	DATE '06/5/22	TITLE 0.5 FFC CONN.FOR LVDS HOUSING ASSY EMBSTP PKG				
		10 OVER 30 UNDER	±0.25	CHECKED BY SMARUYAMA	DATE '06/5/22					
		30 OVER	±0.3	APPROVED BY SICHIKAWA	DATE '06/5/22	MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-502244-002		3 OF 3		
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								