

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [5022442430](#)
Status: **Active**
Description: 0.50mm (.020") Pitch Easy-On™ Type FFC/FPC Connector, For LVDS, 2.33mm (.092") Height, Right Angle, SMT, ZIF, Bottom Contact Style, 24 Circuits, Lead-free

Documents:

[3D Model](#) [Product Specification PS-502244-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family FFC/FPC Connectors
Series [502244](#)
Product Name Easy-On™

Physical

Circuits (Loaded) 24
Color - Resin Black, Natural
Contact Position Bottom
Durability (mating cycles max) 20
Entry Angle 90° Angle
Mated Height (in) 0.092 In
Mated Height (mm) 2.33 mm
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Gold
Number of Rows 1
Orientation Right Angle
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
Polarized to PCB Yes
Stackable No
Temperature Range - Operating -25°C to +85°C
Termination Interface: Style Surface Mount
Wire/Cable Type FFC only

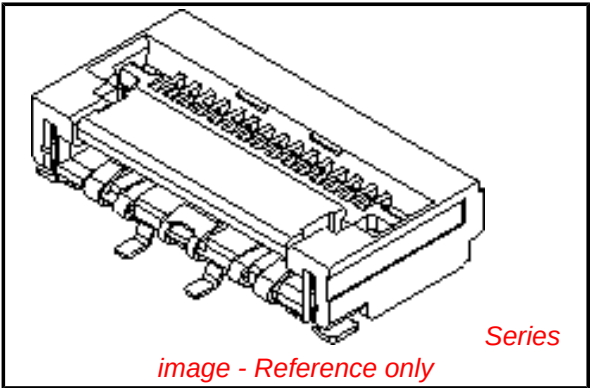
Electrical

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

Material Info

Reference - Drawing Numbers

Product Specification PS-502244-001, RPS-502244-001, RPS-502244-002, RPS-502244-003
Sales Drawing SD-502244-001, SD-502244-002



EU RoHS

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

China RoHS

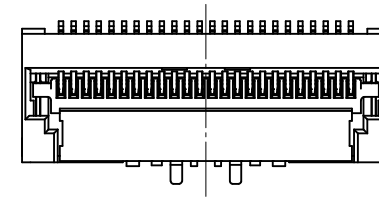
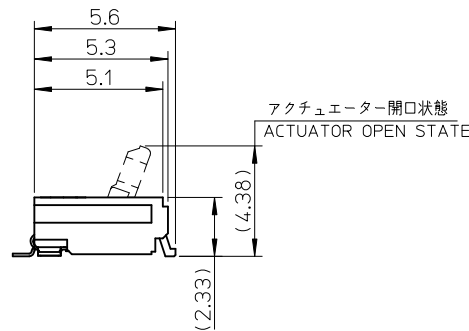
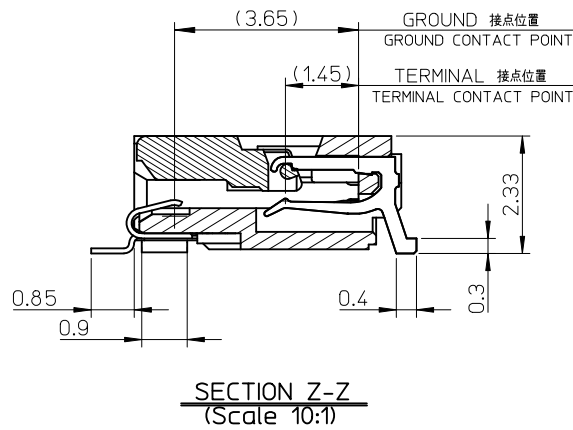
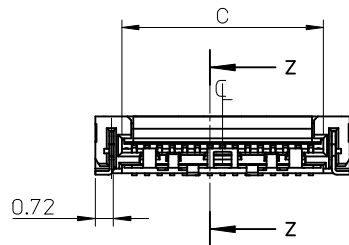
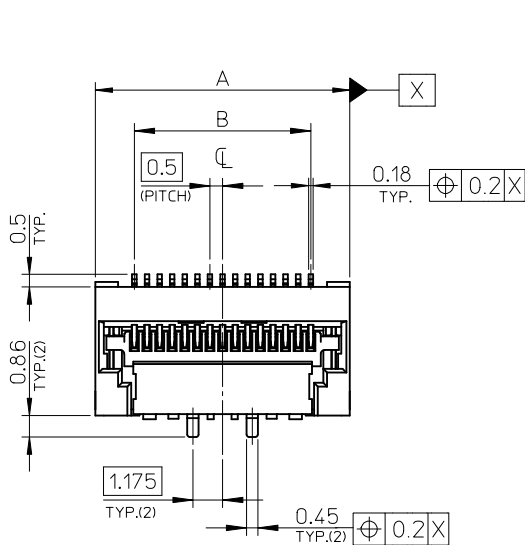


**Need more information on product
environmental compliance?**

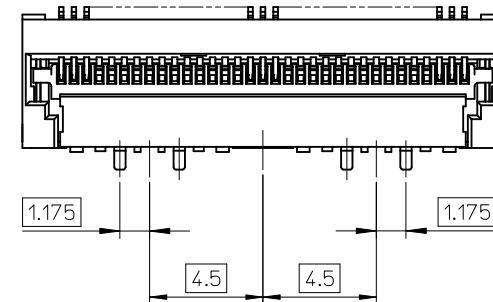
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

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

Search Parts in this Series
[502244Series](#)



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	2010/03/18	DRWN: NISHI	2010/03/18	CHKD: MATSUURA	2010/03/18	APPR: KIMORI KAWA	2010/03/29	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		TITLE 0.5 FFC CONN. FOR LVDS HOUSING ASSY (BOTTOM CONTACT)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
										10 UNDER	± 0.2	DRAWN BY THANYU	DATE '06/03/10	MOLEX INCORPORATED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
										10 OVER 30 UNDER	± 0.25	CHECKED BY SMARUYAMA	DATE '06/03/10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
										30 OVER	± 0.3	APPROVED BY SICHIKAWA	DATE '06/03/10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
										ANGULAR ± 3 °		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-502244-001					SHEET NO. 1 OF 3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
										DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
										REV	C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

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: 錫メッキ (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: 錫メッキ (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

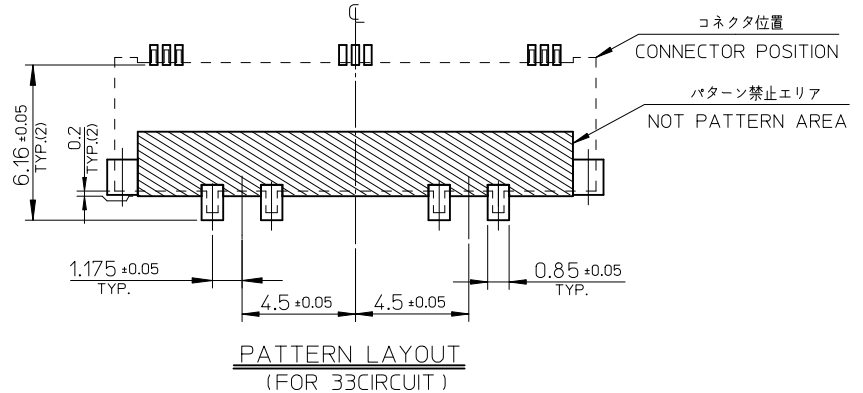
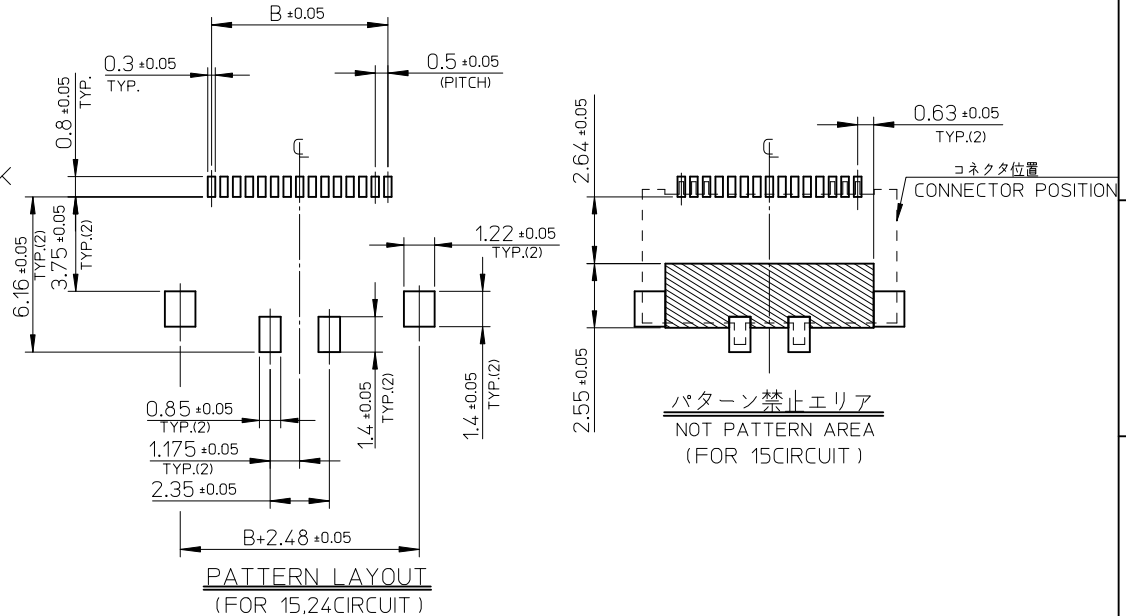
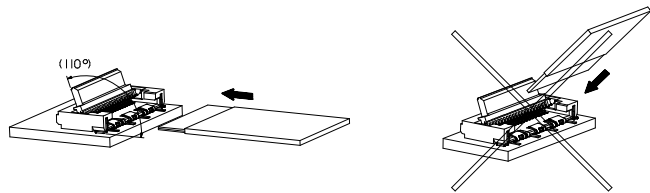
ハウジングに突き当たるまで挿入してください。

DO WITH THE ACTUATOR OPENED COMPLETELY

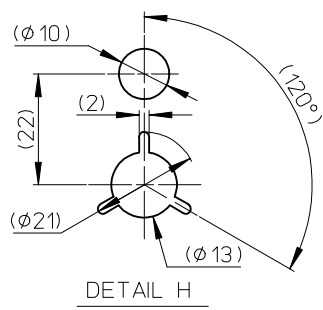
AND INSERT IT IN THE INTERIOR OF THE INSERTION

ENTRANCE SURELY WHEN YOU INSERT FFC.

6.ELV AND RoSH COMPLIANT.



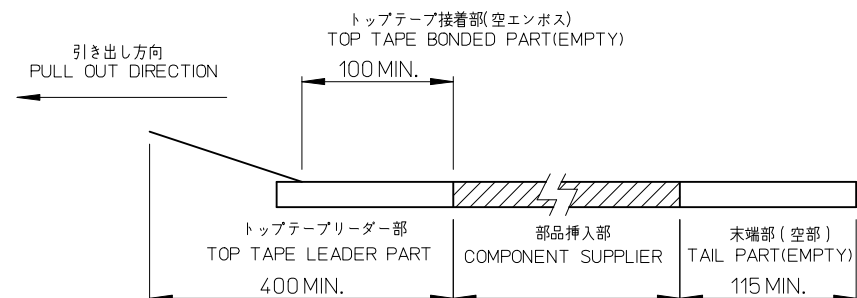
REVISED EC NO.: J2010-1947 DRWN: NISHI CHKD: MATSUURA APPR: KMORIKAWA	DESCRIPTION 2010/03/18 2010/03/18 2010/03/18 2010/03/29	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY THANYU	DATE '06/03/10	TITLE 0.5 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 MOLEX INCORPORATED				
		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-502244-001		2 OF 3		
		REV C		SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



1. 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).

2. 梱包数量：2500個/リール
NUMBER OF CONNECTORS : 2500PCS/REEL

3. リードテープの長さ
LEAD TAPE LENGTH



4. 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: J2009-4513 2008/12/11 DRAWN: M. TAKASAKI 2008/12/12 CHKD: M. YASHI APPR: N. KITA	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					
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 2		SD-502244-002		1 OF 3		
	REV		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

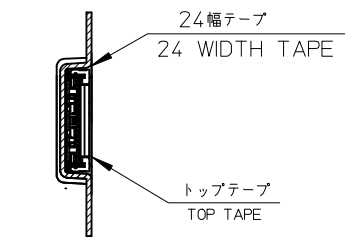
D

C

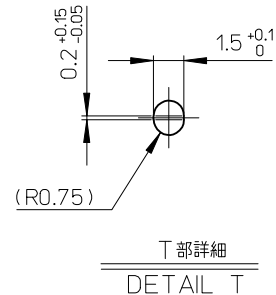
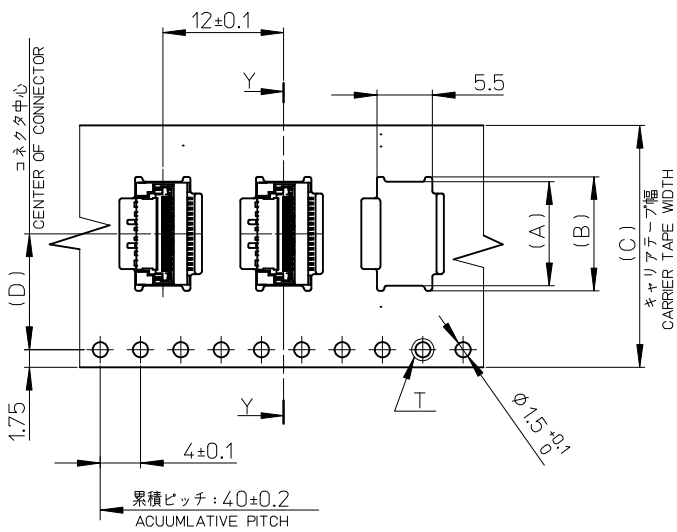
B

A

引き出し方向
PULL OUT DIRECTION



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

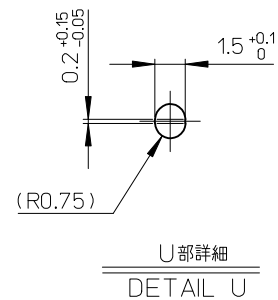
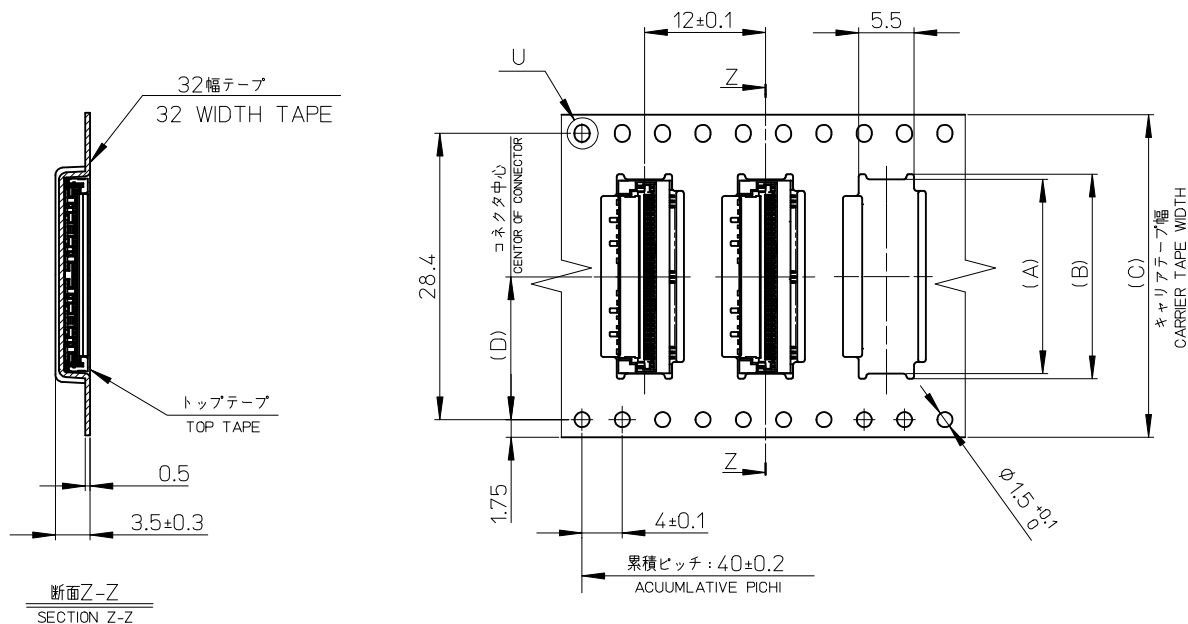
D

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: HAYASHI 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								