

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

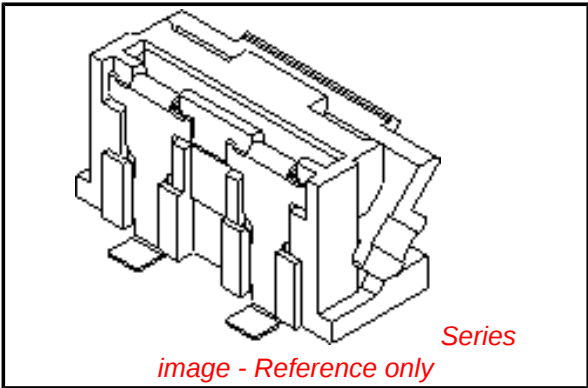
Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Product Specification PS-502231-001 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

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



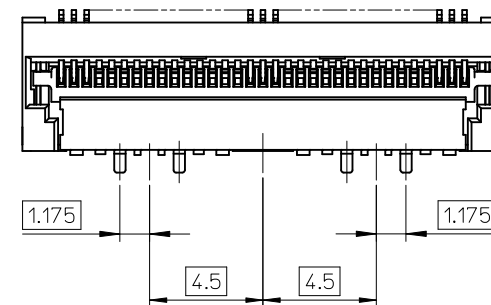
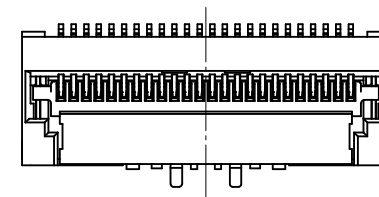
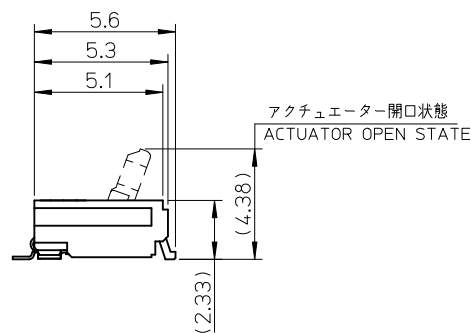
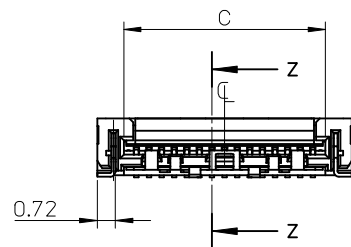
Need more information on product environmental compliance?

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](#)

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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	EMBOSSSED TAPE	CIRCUIT
			ORDER No.	
CONNECTOR SERIES No.502244-**39				

EN-02DA(021)

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

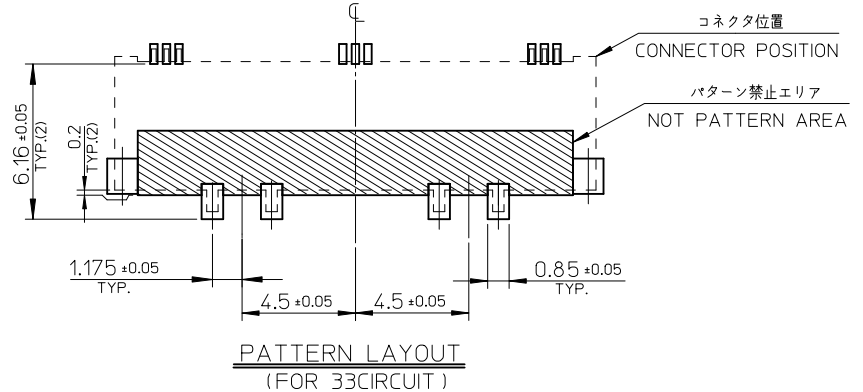
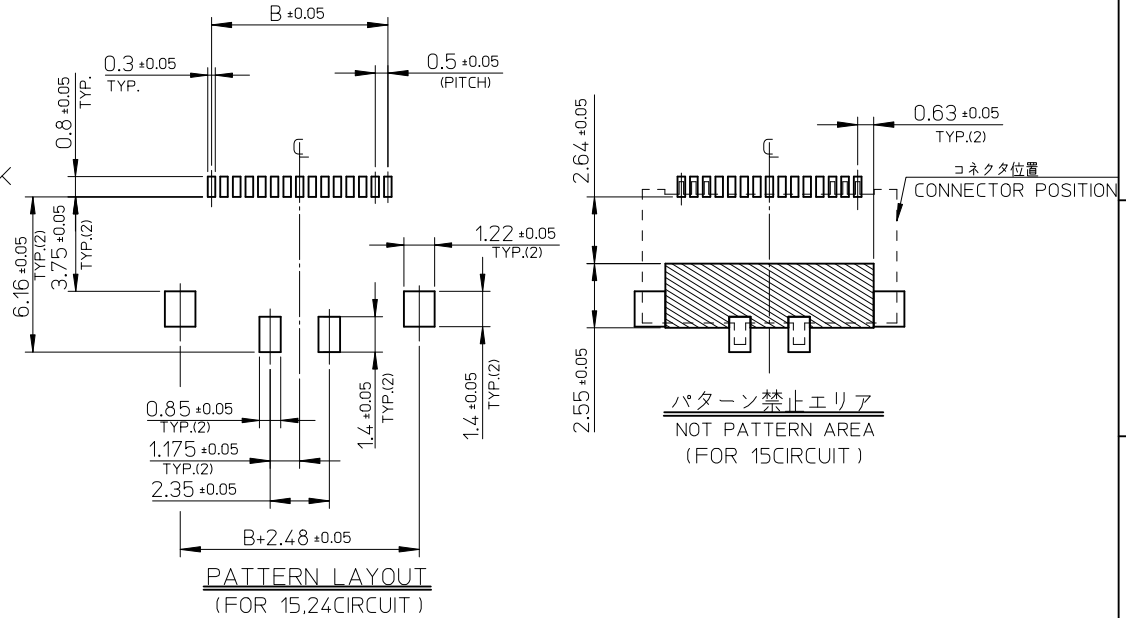
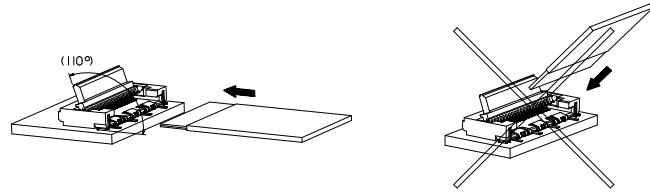
ハウジングに突き当たるまで挿入してください。

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	10 UNDER	± 0.2	DRAWN BY	DATE	5:1	METRIC	0.5 FFC CONN. FOR LVDS HOUSING ASSY (BOTTOM CONTACT)
CH'KD	WATSUURA	2010/03/18	10 OVER 30 UNDER	± 0.25	CHECKED BY	DATE	THANYU	'06/03/10			
APPR	KMORIKAWA	2010/03/29	30 OVER	± 0.3	APPROVED BY	DATE	SMARUYAMA	'06/03/10			MOLEX INCORPORATED
REV			ANGULAR	± 3 °	SICHIKAWA	'06/03/10	MATERIAL NO.				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		DOCUMENT NO.				SD-502244-001
											SHEET NO.
											2 OF 3

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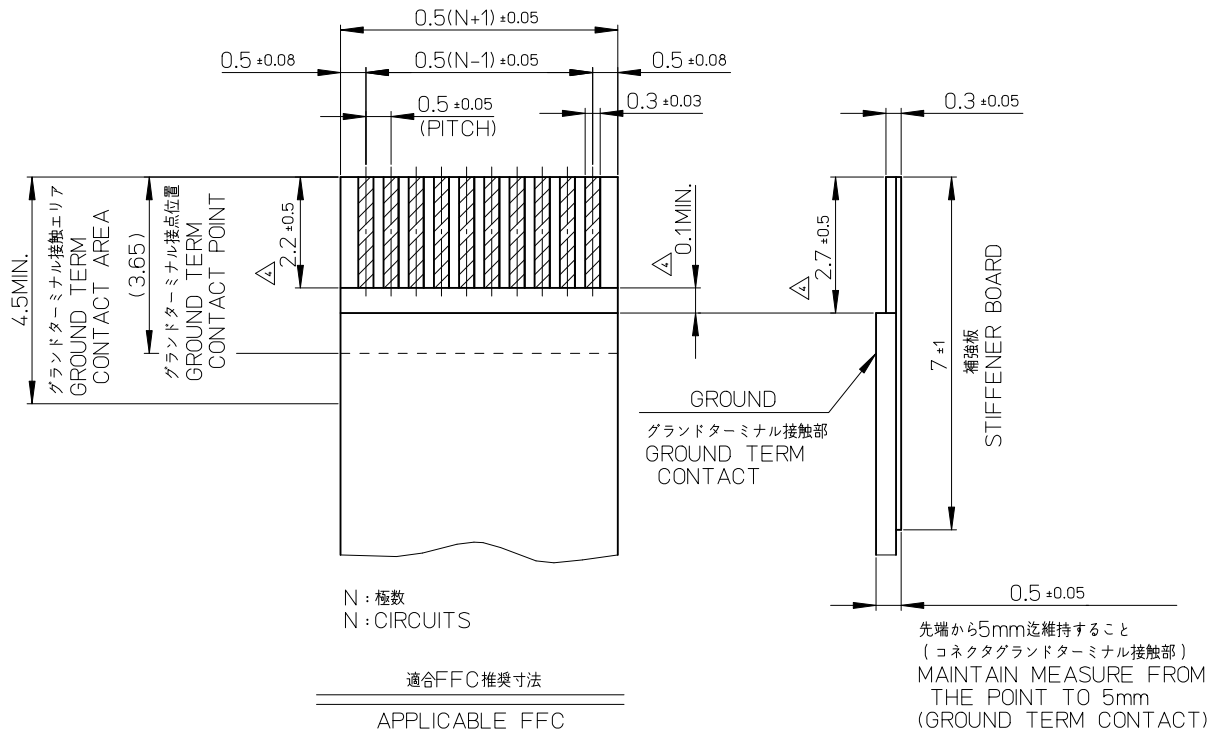
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FFCについて:

抜き方向は導体側から補強板側を推奨致します。

導体部については、軟銅箔: 35マイクロメートル又は50マイクロメートル

金めっきを推奨致します。

ABOUT FFC:

RECOMMENDED PUNCHER DIRECTION:

FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE

RECOMMENDED CONDUCTOR SPEC:

THICKNESS OF SOFT COPPER: 35 MICROMETER OR 50 MICROMETER

GOLD PLATING

REVISED	EC NO. J2010-1947	DRWN: NISHI 2010/03/18	CHKD: MATSUURA 2010/03/18	APPR: KMORI KAWA 2010/03/29	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION
							MM ONLY		5:1	METRIC	
					DESCRIPTION	10 UNDER	± 0.2	DRAWN BY	DATE	TITLE 0.5 FFC CONN. FOR LVDS HOUSING ASSY (BOTTOM CONTACT)	
						10 OVER 30 UNDER	± 0.25	CHECKED BY	DATE		
						30 OVER	± 0.3	APPROVED BY	DATE		
						ANGULAR ± 3 °	MATERIAL NO.	DOCUMENT NO.			
REV	C				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-502244-001		3 OF 3
					SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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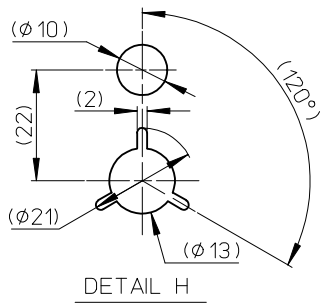
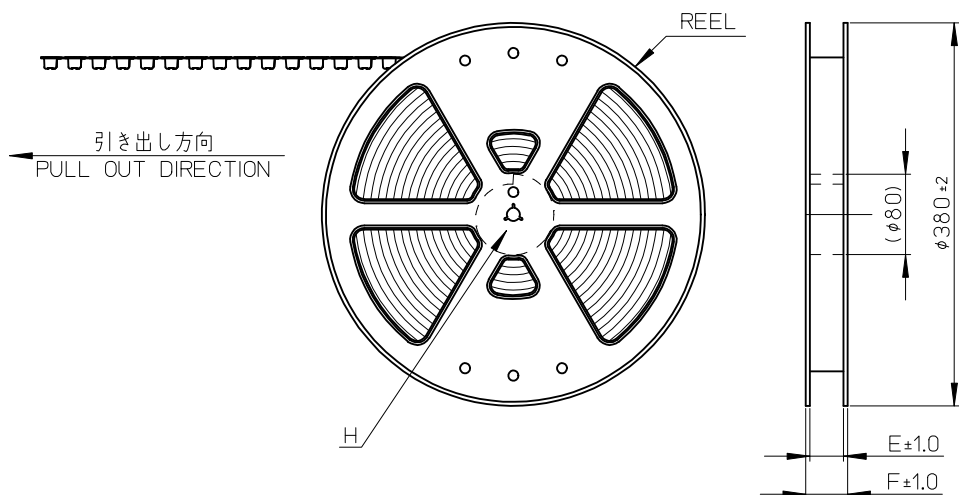
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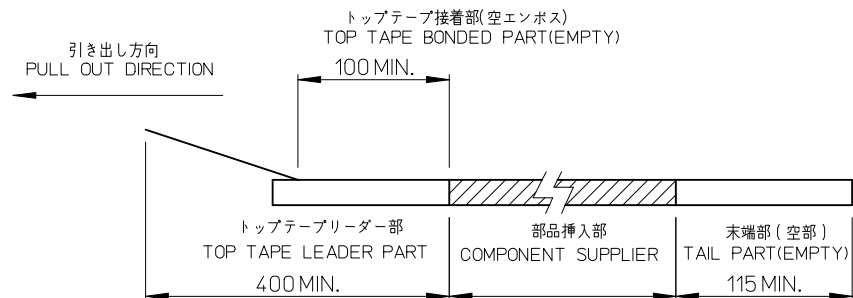
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NOTES

- 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: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. SEE SHEET 2		DOCUMENT NO. SD-502244-002		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									

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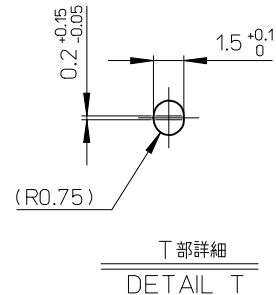
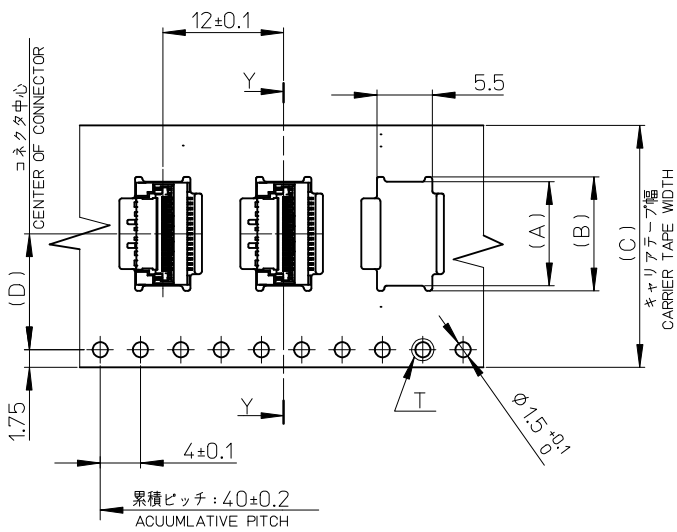
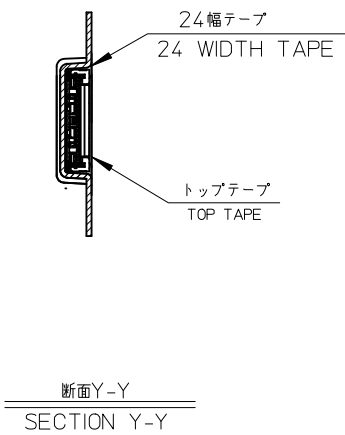
D

C

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A

引き出し方向
PULL OUT DIRECTION



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		
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		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.						
	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

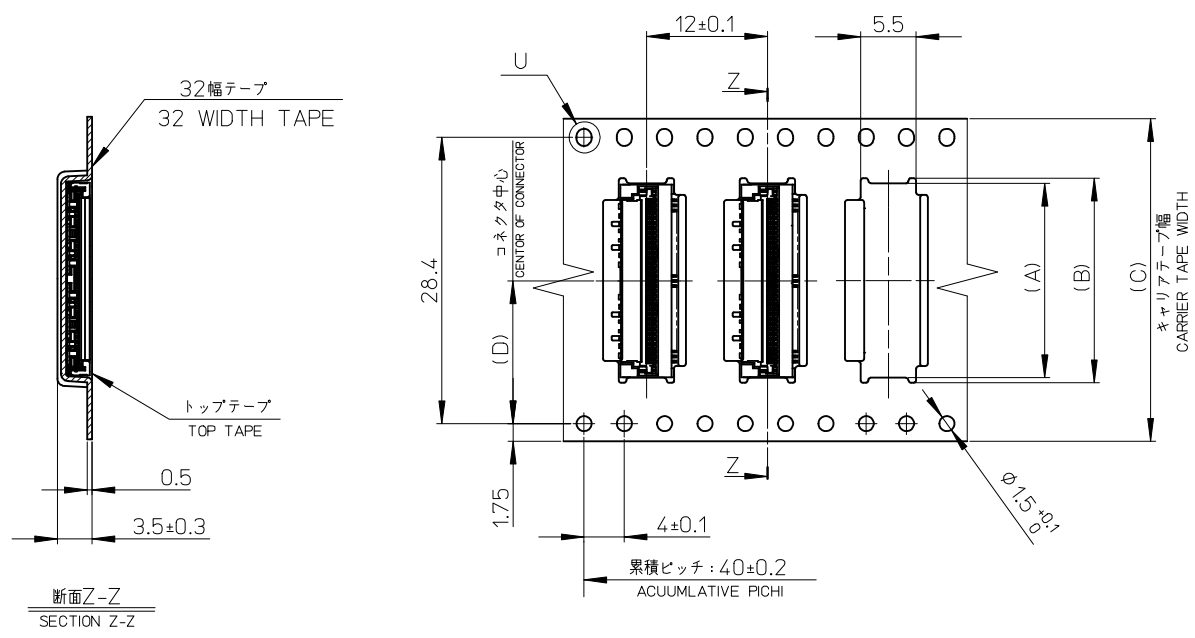
D

C

B

A

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

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		ANGULAR	±1 °	MATERIAL NO.							DOCUMENT NO.
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-502244-002				3 OF 3		
	REV			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

Данный компонент на территории Российской Федерации

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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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