

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [5020783310](#)
Status: **Active**
Description: 0.25mm (.010") Pitch Easy-On™ Type FPC Connector, 1.00mm (.039") Mated Height, Right Angle, SMT, Bottom Contact Style, 33 Circuits, Halogen Free

Documents:
[3D Model](#) [Product Specification PS-502078-002 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

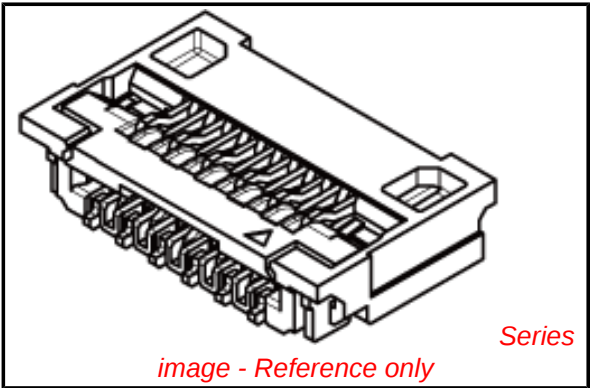
General	
Product Family	FFC/FPC Connectors
Series	502078
Product Name	Easy-On™
Physical	
Circuits (Loaded)	33
Contact Position	Bottom
Durability (mating cycles max)	10
Entry Angle	90° Angle
Mated Height (in)	0.039 In
Mated Height (mm)	1.00 mm
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
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)	0.010 In
Pitch - Mating Interface (mm)	0.25 mm
Polarized to PCB	Yes
Stackable	No
Temperature Range - Operating	-20°C to +85°C
Termination Interface: Style	Surface Mount
Wire/Cable Type	FPC only

Electrical	
Current - Maximum per Contact	0.2A
Voltage - Maximum	50V

Material Info

Reference - Drawing Numbers

Product Specification	PS-502078-002, RPS-502078-006, RPS-502078-007
Sales Drawing	SD-502078-003, SD-502078-004



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

China RoHS

Need more information on product environmental compliance?

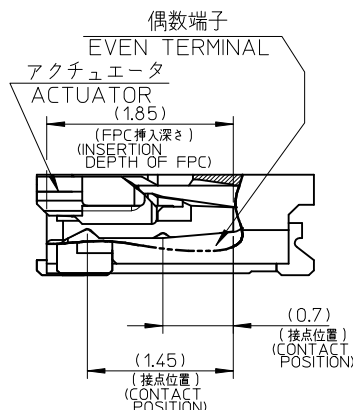
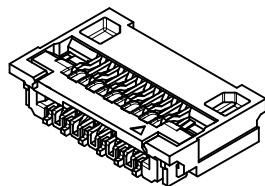
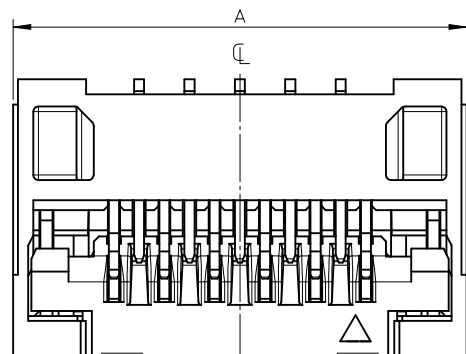
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

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

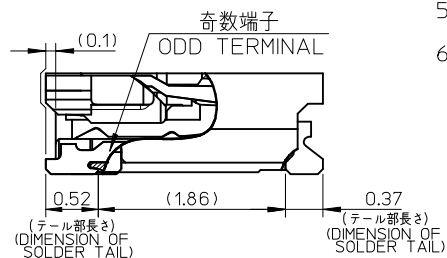
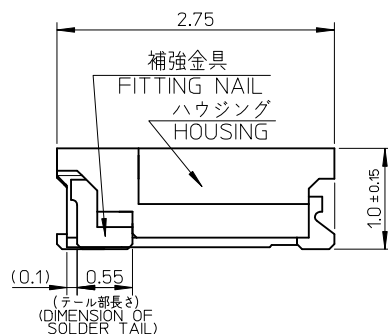
Search Parts in this Series
[502078Series](#)

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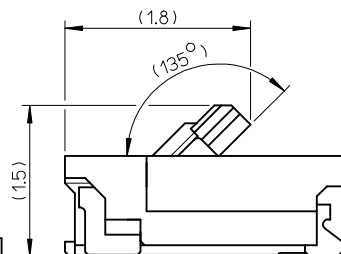
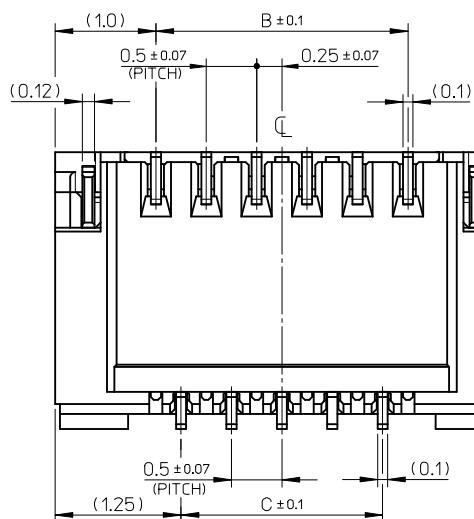
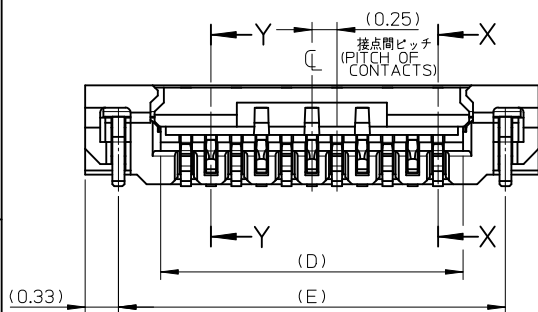
10 9 8 7 6 5 4 3 2 1



SECTION Y-Y



SECTION X-X



アクチュエータ開放位置

ACTUATOR OPENING POSITION

注記 NOTES

1. 使用材料 MATERIALS

- ハウジング : 耐熱性樹脂(UL94V-0、ベージュ)
アクチュエータ : 耐熱性樹脂(UL94HB、黒色)
奇数端子 : 銅合金、ニッケル下地、金メッキ
偶数端子 : 銅合金、ニッケル下地、金メッキ
補強金具 : 銅合金、ニッケル下地、スズメッキ
HOUSING : G.F. HEAT RESISTANCE PLASTIC (BEIGE)
ACTUATOR : G.F. HEAT RESISTANCE PLASTIC (BLACK)
ODD TERMINAL : COPPER ALLOY, Gold OVER Nickel PLATING
EVEN TERMINAL : COPPER ALLOY, Gold OVER Nickel PLATING
FITTING NAIL : COPPER ALLOY, Tin OVER Nickel PLATING

- △ 端子、補強金具のコプラナリティーは 0.1 以下とする
COPLANALITY OF SOLDER TAILS AND FITTING NAILS : 0.1MAX.

3. 一般公差 : ± 0.3
GENERAL TOLERANCES: ± 0.3

- △ アクチュエータの図示箇所にゲート逃の凹みがつきます
THERE ARE DENT SHAPES AT ACTUATOR FOR MOLDING GATE

5. ELV 及び RoHS 適合品
ELV AND RoHS COMPLIANT

6. 塩素系・臭素系難燃剤非使用
CHLORINATED AND BROMINATED FLAME RETARDANTS FREE

13.84	13	12	12.5	14.5	502078-5110	502078-5118	51
10.84	10	9	9.5	11.5	502078-3910	502078-3918	39
9.34	8.5	7.5	8	10	502078-3310	502078-3318	33
7.34	6.5	5.5	6	8	502078-2510	502078-2518	25
6.34	5.5	4.5	5	7	502078-2110	502078-2118	21
5.34	4.5	3.5	4	6	502078-1710	502078-1718	17
E	D	C	B	A	ORDER NO.	MATERIAL NO.	CKT.=N

502078-**-18

MODEL NO.

RELEASED EC NO: J2009-4529 DRAWN:YFUJITA CHKD:TKANEKO APPR:TKANEKO	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 20:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		10 UNDER	± ---	DRAWN BY YFUJITA	DATE 2008/12/15	TITLE 0.25 PITCH FPC CONN E/O HGT=1.0 BTM CONTACT TYPE			
		10 OVER 30 UNDER	± ---	CHECKED BY TKANEKO	DATE 2008/12/15				
		30 OVER	± ---	APPROVED BY AHORINO	DATE 2008/12/15				
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO.
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-502078-003		1 OF 2		
	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



(端子部仕上がり厚さ: 0.2 ± 0.03)
(THICKNESS: 0.2 ± 0.03)

① 補強板長さが図面通り確保できない場合は、カバーレイと補強板のオーバーラップ寸法を 0.5mm 以上とってください
WHEN STIFFENER BOARD DIMENSION CAN NOT SECURE AS DRAWING, PLEASE GIVE THE OVERLAP SIZE OF COVER FILM AND STIFFENER BOARD AS 0.5mm MINIMUM

- 2 推奨ペースト厚 : 100 μ m
 推奨マスク開口率 : 80%
 RECOMMEND SCREEN THICKNESS : 100 μ m
 RECOMMEND SCREEN OPEN RATIO : 80%

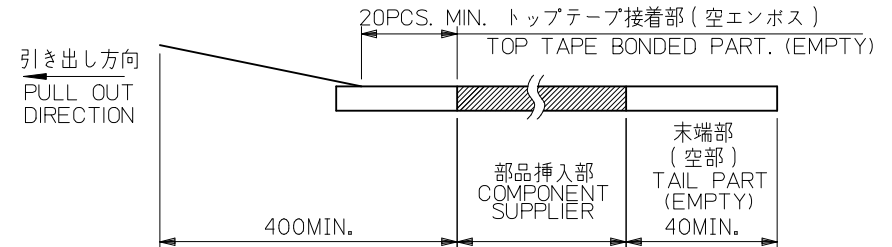
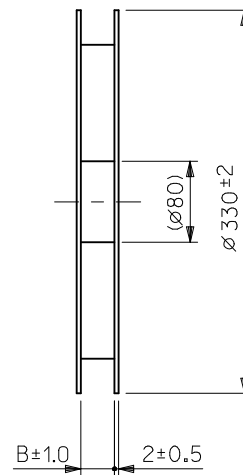
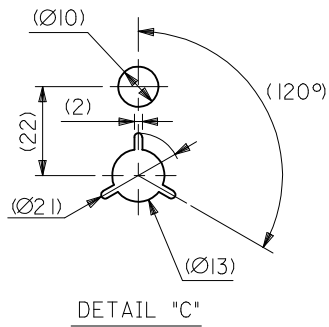
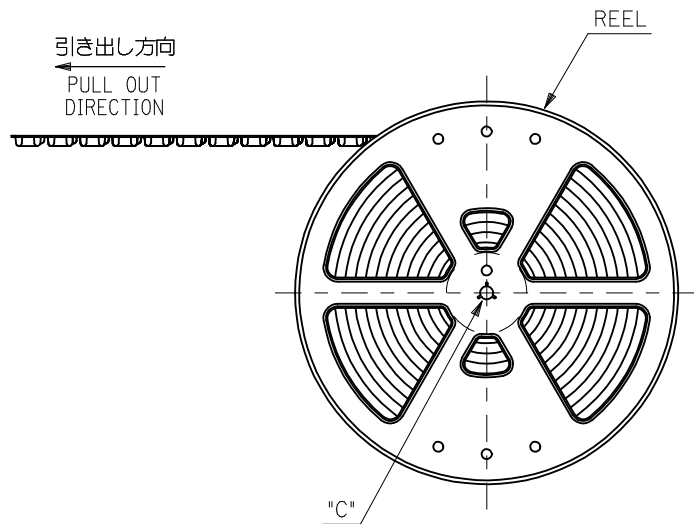


抜き方向は、導体側から補強板側を推奨します
 補強板材質は、ポリイミドを推奨します
 接着剤は熱硬化接着剤を推奨します
 なお、接着剤の接点部への付着は導通不良の
 原因となりますので染み出しがないよう、お願いします
 RECOMMENDED PUNCHER DIRECTION:
 FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE
 RECOMMENDED MATERIAL: POLYIMIDE
 STIFFENER BOARD: POLYIMIDE
 BONDING AGENT: THERMOSETTING AGENT
 PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON
 THE CONTACT AREA BECAUSE THE EXTRA ADHESIVE
 MAY CAUSE THE DEFECT IN ELECTRICAL CONTINUITY

RELEASED EC NO.: J2009-1529 DRWN: YFUJITA CHK'D: KANEKO APPR: KANEKO	DESCRIPTION 2008/12/15 2008/12/15 2008/12/15	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 20:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		10 UNDER	± ---	DRAWN BY YFUJITA	DATE 2008/12/15	TITLE 0.25 PITCH FPC CONN E/O HGT=1.0 BTM CONTACT TYPE			
		10 OVER 30 UNDER	± ---	CHECKED BY TKANEKO	DATE 2008/12/15				
		30 OVER	± ---	APPROVED BY AHORINO	DATE 2008/12/15	 MOLEX INCORPORATED			
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO.
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1 OF 2		SD-502078-003			2 OF 2	
	REV 0			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

注記 NOTES

- 製品詳細寸法については図面 SD-502078-003 を参照下さい。
RE DETAILED DIMENSION, SEE SD-502078-003
- 梱包数量 : 3000 個/リール
NUMBER OF CONNECTORS : 3000 PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



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

RELEASED	EC NO: J2009-1529 DRWN:YFUJITA CHKD:TKANEKO APPR:TKANEKO	2008/12/15 2008/12/15 2008/12/15	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	MODEL NO. 502078-**-10	 THIRD ANGLE PROJECTION		
				10 UNDER	± 0.2	DRAWN BY YFUJITA	DATE 2008/12/15	TITLE 0.25 FPC CONN E/O HSG ASSY EMBOSSED TAPE PACKAGE MOLEX INCORPORATED				
				10 OVER 30 UNDER	± 0.25	CHECKED BY TKANEKO	DATE 2008/12/15					
				30 OVER	± 0.3	APPROVED BY AHORINO	DATE 2008/12/15					
				ANGULAR ±1 °		MATERIAL NO.					DOCUMENT NO. SD-502078-004	SHEET NO. 1 OF 2
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
				REV		0						

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F

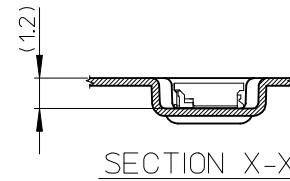
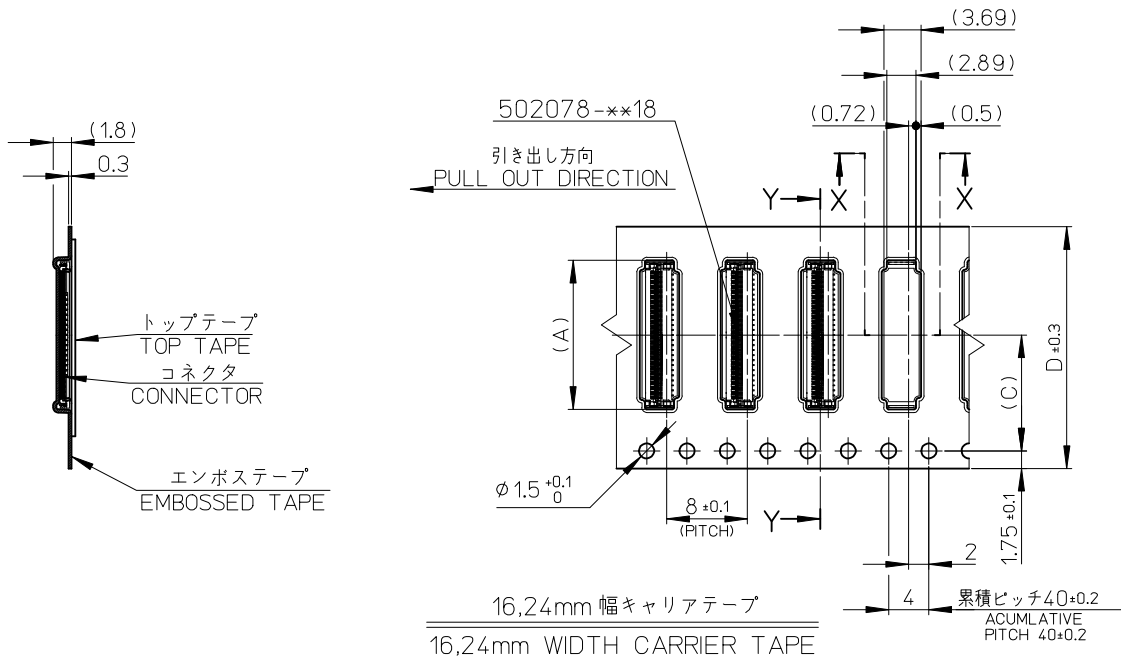
E

D

C

B

A



24	11.5	25.4	14.8	502078-5110	51
			11.8	502078-3910	39
			10.3	502078-3310	33
			8.3	502078-2510	25
			7.3	502078-2110	21
16	7.5	17.4	6.3	502078-1710	17
D キャリアテープ幅 CARRIER TAPE WIDTH	C	B	(A)	製品番号 MATERIAL NO.	極数 CKT.
MODEL NO.			502078-**10		
DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC		◎ ◯ THIRD ANGLE PROJECTION
DRAWN BY UJITA		TITLE 0.25MM FPC CONN E/O HSG ASSY EMBOSSED TAPE PACKAGE			
CHECKED BY ANEKO					
PROVED BY ORINO					
DATE 2008/12/15		MOLEX INCORPORATED			
DATE 2008/12/15					
MATERIAL NO. SEE CHART		DOCUMENT NO. SD-502078-004			SHEET NO. 2 OF 2
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

RELEASED EC NO: J2009-1529 DRWN:YFUJITA CHKD:TKANEKO APPR:TKANEKO REV O	2008/12/15 2008/12/15 2008/12/15	GENERAL TOLERANCES (UNLESS SPECIFIED)	
		10 UNDER	± 0.2
		10 OVER 30 UNDER	± 0.25
		30 OVER	± 0.3
		ANGULAR ±1 °	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	