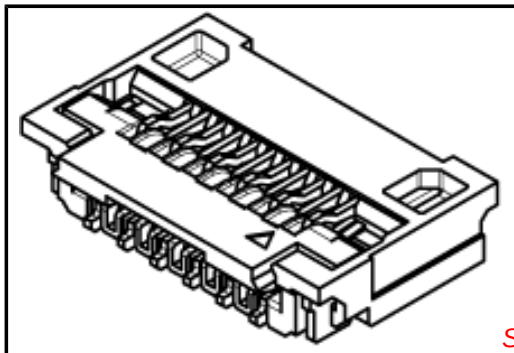
This document was generated on 05/18/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 5020783960

Status: Active

Description: 0.25mm (.010") Pitch Easy-On™ Type FPC Connector, 1.00mm (.039") Mated Height, Right Angle, SMT, Bottom Contact Style, with Extended Actuator, 39 Circuits, Halogen Free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-502078-003 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	FFC/FPC Connectors
Series	502078
Product Name	Easy-On™

Physical

Circuits (Loaded)	39
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	Phosphor Bronze
Material - Plating Mating	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-502078-003
Sales Drawing	SD-502078-005, SD-502078-006

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Halogen-Free

China RoHS

Need more information on product environmental compliance?

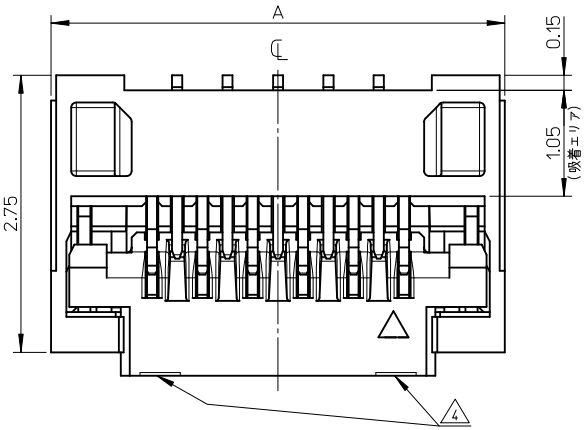
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

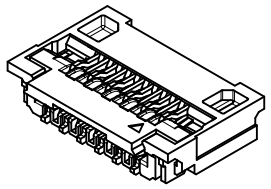
Please visit the Contact Us section for any non-product compliance questions.

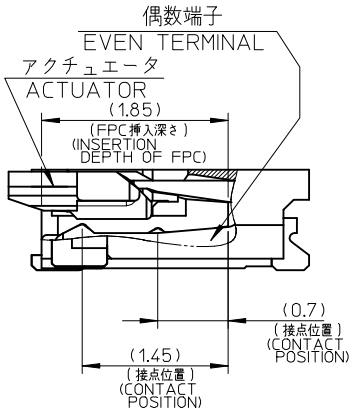
Search Parts in this Series
502078Series

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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



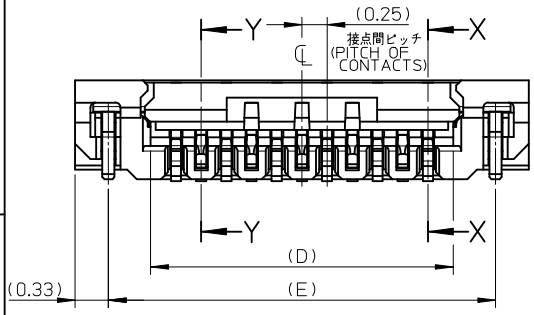


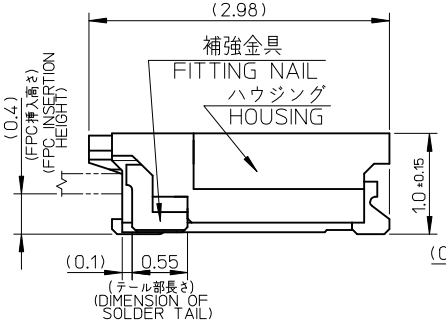


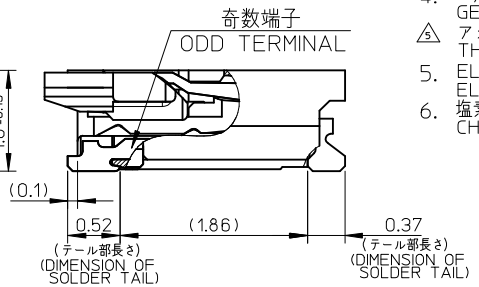
SECTION Y-Y

注記 NOTES

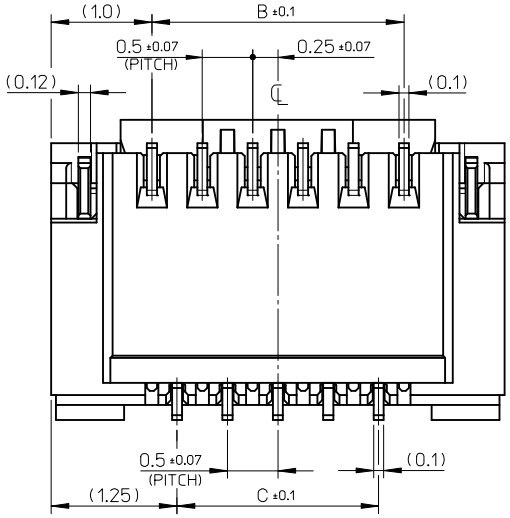
1. 使用材料 MATERIALS
   ハウジング ：液晶ポリマー(UL94V-0、ベージュ)
   アクチュエータ：ポリアミド(UL94HB 、黒色)
   端子 ：リン青銅
   補強金具 ：リン青銅
   HOUSING : LCP (BEIGE)
   ACTUATOR : PA (BLACK)
   TERMINAL : PHOSPHOR BRONZE
   FITTING NAIL : PHOSPHOR BRONZE
2. メッキ仕様 PLATING
   端子 TERMINAL
   接点部：金メッキ0.1μm以上
   下地：ニッケルメッキ1.0μm以上
   CONTACT AREA : Gold PLATING 0.1μm MINIMUM
   UNDER PLATING : Nickel PLATING 1.0μm MINIMUM
   金具FITTING NAIL
   表面：スズメッキ 0.5μm以上
   下地：ニッケルメッキ1.0μm以上
   ALL OVER : Tin PLATING 0.5μm MINIMUM
   UNDER PLATING : Nickel PLATING 1.0μm MINIMUM
3. 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.
4. 一般公差：± 0.3
   GENERAL TOLERANCES: ±0.3
   ⚠5 アクチュエータの図示箇所にゲート逃げの凹みがつきます
   THERE ARE DENT SHAPES AT ACTUATOR FOR MOLDING GATE
5. ELV & RoHS適合品
   ELV & RoHS COMPLIANT
6. 塩素系・臭素系難燃剤非使用
   CHLORINATED AND BROMINATED FLAME RETARDANTS FREE

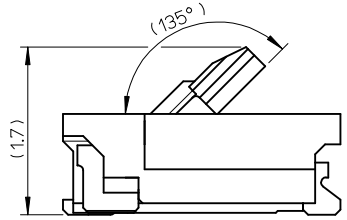






SECTION X-X





アクチュエータ開放位置

ACTUATOR OPENING POSITION

16.34	15.5	14.5	15	17	502078-6160	502078-6168	61
10.84	10	9	9.5	11.5	502078-3960	502078-3968	39
10.34	9.5	8.5	9	11	502078-3760	502078-3768	37
E	D	C	B	A	ORDER NO.	MATERIAL NO.	CKT. =N
					502078-**68	MODEL NO.	

REVISED
EC NO: J2010-0687 2009/10/05
DRWN:YFUJITA 2009/10/05
CH'KD:SHOSHIKAWA 2009/10/05
APPR:SHOSHIKAWA 2009/10/05
DESCRIPTION
REV
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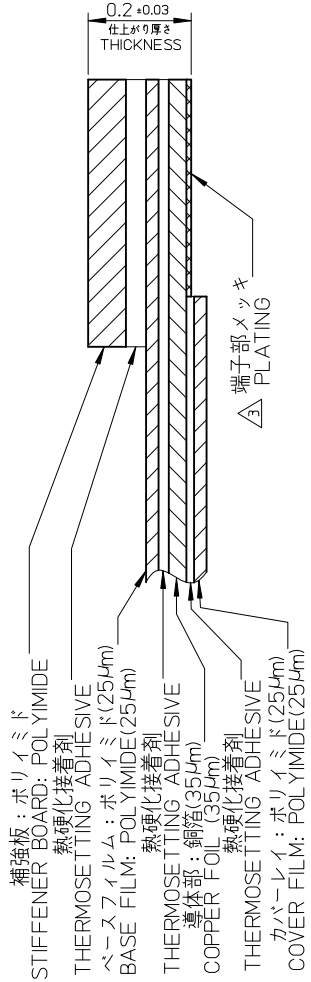
GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	± ---
10 OVER 30 UNDER	± ---
30 OVER	± ---
ANGULAR ±1 °	

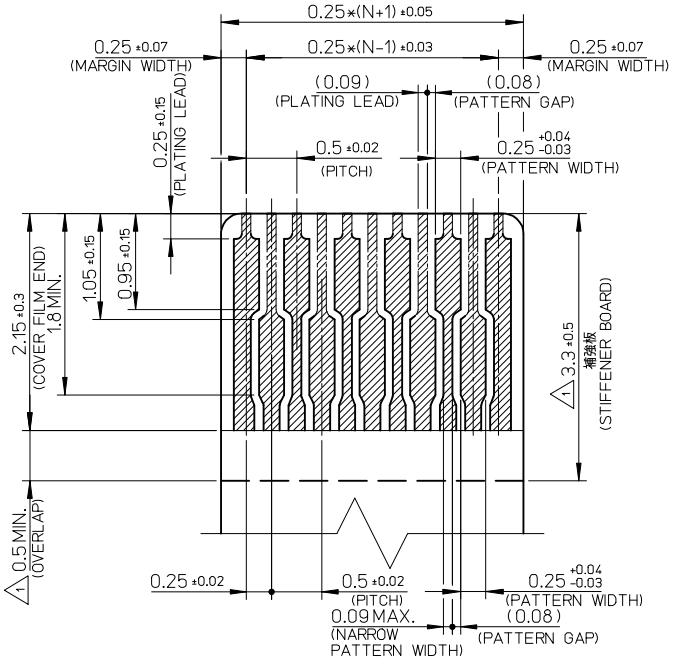
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	20:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	YFUJITA 2009/08/07
CHECKED BY / DATE	SHOSHIKAWA 2009/08/07
APPROVED BY / DATE	AHORINO 2009/08/07
MATERIAL NO.	SEE CHART
TITLE	0.25 PITCH FPC CONN E/O HGT=1.0 BTM CONTACT TYPE
	MOLEX INCORPORATED
DOCUMENT NO.	SD-502078-005
SHEET NO.	1 OF 2
SIZE	A3

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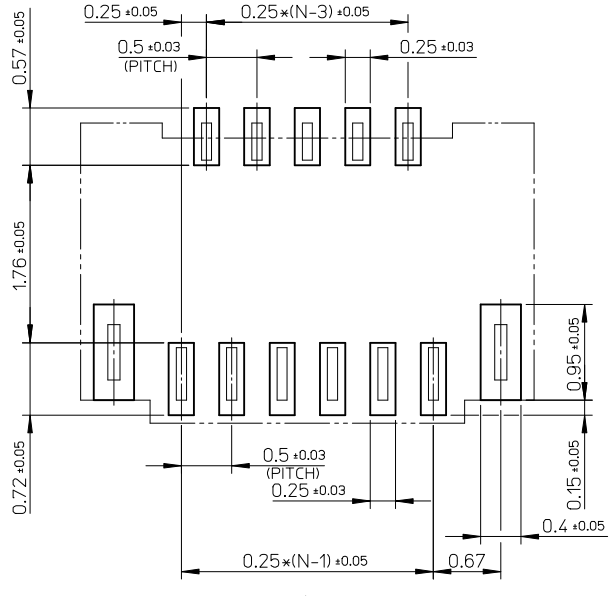


FPC構成材料例
EXAMPLE OF FPC COMPOSITION MATERIAL



適合するFPC 推奨寸法
APPLICABLE FPC RECOMMENDED DIMENSION

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



FPC挿入側
FPC INSERSION SIDE
参考基板レイアウト
RECOMMENDED PCB PATTERN DIMENSIONS (REF.)

注記 NOTES

△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 以上としてください
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　：100μm
推奨マスク開口率　：80%
RECOMMEND SCREEN THICKNESS　: 100μm
RECOMMEND SCREEN OPEN RATIO : 80%

△3 FPCパターンのメッキ仕様は
金メッキ：　0.1μm以上
下地ニッケルメッキ：2~6μm
FPC PATTERN PLATING
GOLD PLATING　: 0.1μm MINIMUM
NICKEL UNDER PLATING : 2~6μm

4 FPCについて(ABOUT FPC)
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 BORAD SIDE
RECOMMENDED MATERIAL:
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

REVISED
EC NO: J2010-0687
DRWN:YFUJITA 2009/10/05
CHKD:SHOSHIKAWA 2009/10/05
APPR:SHOSHIKAWA 2009/10/05
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GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	± ---
10 OVER 30 UNDER	± ---
30 OVER	± ---
ANGULAR ±1 °	

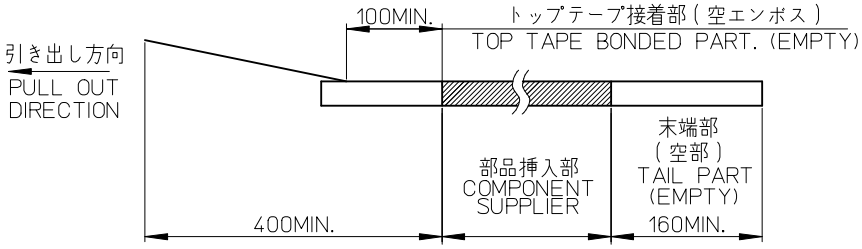
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

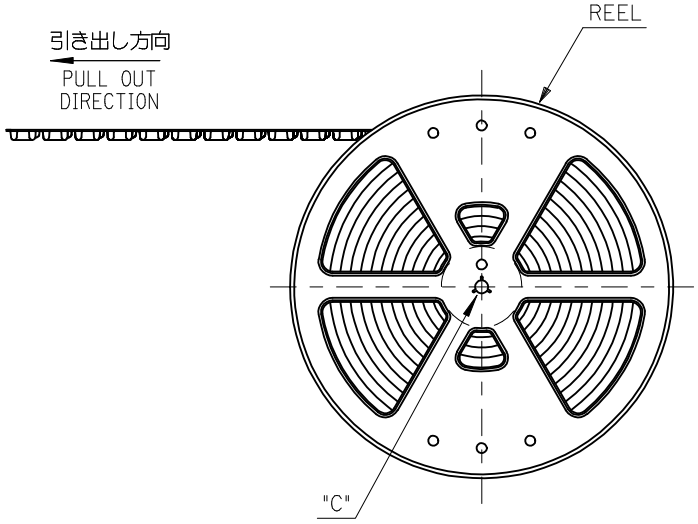
DIMENSION STYLE	MM ONLY
SCALE	20:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	YFUJITA 2009/08/07
CHECKED BY / DATE	SHOSHIKAWA 2009/08/07
APPROVED BY / DATE	AHORINO 2009/08/07
MATERIAL NO.	SEE SHEET 1 OF 2
TITLE	0.25 PITCH FPC CONN E/O HGT=1.0 BTM CONTACT TYPE
	MOLEX INCORPORATED
DOCUMENT NO.	SD-502078-005
SHEET NO.	2 OF 2
SIZE	A3

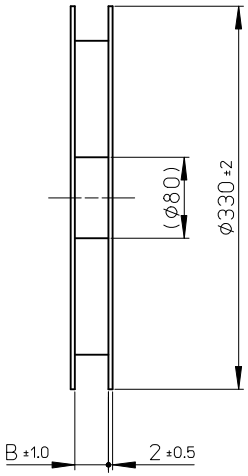
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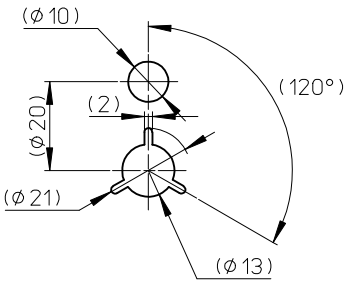
注記 NOTES

1. 製品詳細寸法については図面 SD-502078-005 を参照下さい。
   RE DETAILED DIMENSION, SEE SD-502078-005
2. 梱包数量：3000 個／リール
   NUMBER OF CONNECTORS : 3000 PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH









DETAIL "C"

4. 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>

REVISED				
EC NO: J2010-0687				
DRWN:YFUJITA	2009/10/05			
CH'KD:SHOSHIKAWA	2009/10/05			
APPR:SHOSHIKAWA	2009/10/05			
A		DESCRIPTION	REV	

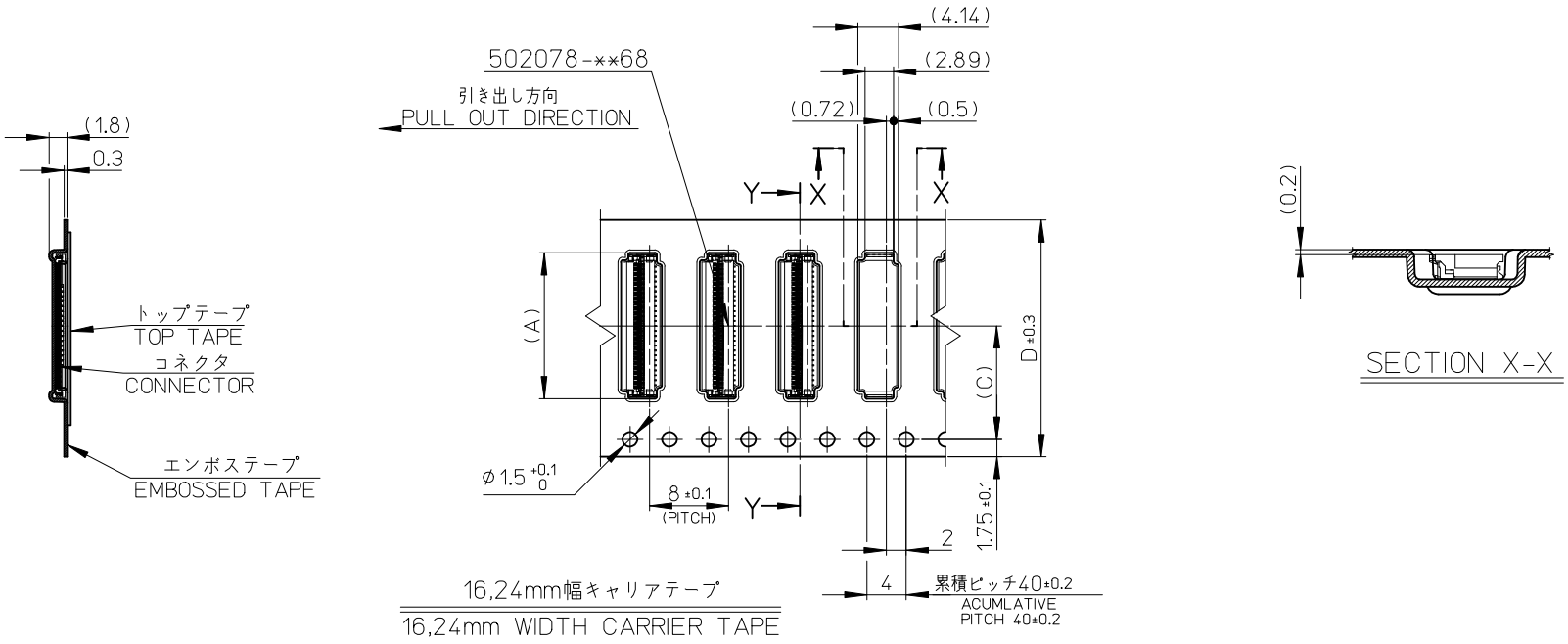
GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	± ---
10 OVER 30 UNDER	± ---
30 OVER	± ---
ANGULAR ±1 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY	SCALE: 1:1	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: YFUJITA DATE: 2009/08/07	TITLE: 0.25MM PITCH FPC CONN HGT=1.0 HSG ASSY EMBOSSED TAPE PACKAGE		
CHECKED BY: SHOSHIKAWA DATE: 2009/08/07			
APPROVED BY: AHORINO DATE: 2009/08/07	molex MOLEX INCORPORATED		
MATERIAL NO.: SEE CHART	DOCUMENT NO.: SD-502078-006	SHEET NO.: 1 OF 3	
SIZE: A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

MODEL NO. 502078-**60



16,24mm幅キャリアテープ
16,24mm WIDTH CARRIER TAPE

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-**60	
24	11.5	25.4	11.8	502078-3960	39
			11.3	502078-3760	37

REVISED				REV	DESCRIPTION
EC NO: J2010-0687	DRWN:YFUJITA	CH'KD:SHOSHIKAWA	APPR:SHOSHIKAWA		
2009/10/05	2009/10/05	2009/10/05	2009/10/05		
A					

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR ±1 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

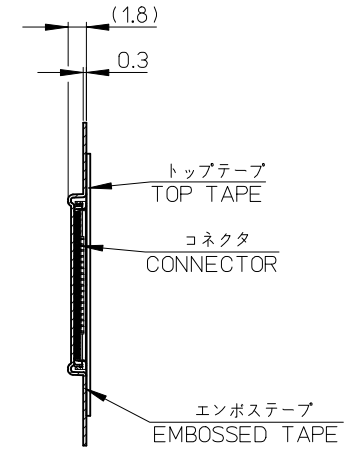
DIMENSION STYLE: MM ONLY	SCALE: 1:1	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: YFUJITA	DATE: 2009/08/07		
CHECKED BY: SHOSHIKAWA	DATE: 2009/08/07		
APPROVED BY: AHORINO	DATE: 2009/08/07		
MATERIAL NO.: SEE CHART			
DOCUMENT NO.: SD-502078-006			SHEET NO.: 2 OF 3

TITLE: 0.25MM PITCH FPC CONN HGT=1.0 HSG ASSY EMBOSSED TAPE PACKAGE

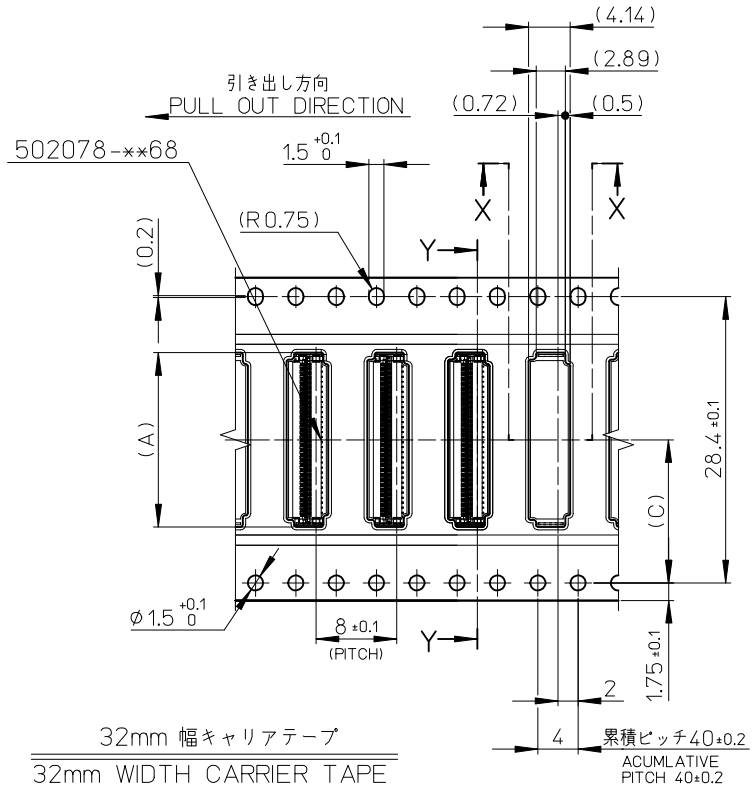
molex MOLEX INCORPORATED

SIZE A3

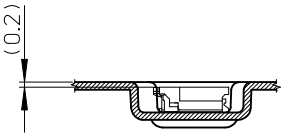
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SECTION Y-Y



32mm 幅キャリアテープ
32mm WIDTH CARRIER TAPE



SECTION X-X

14.2	33.4	17.3	502078-6160	61
C	B	(A)	製品番号 MATERIAL NO.	極数 CKT.
MODEL NO.			502078-**60	

REVISED
EC NO: J2010-0687 2009/10/05
DRWN:YFUJITA 2009/10/05
CH'KD:SHOSHIKAWA 2009/10/05
APPR:SHOSHIKAWA 2009/10/05
DESCRIPTION
REV
A

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	± ---
10 OVER 30 UNDER	± ---
30 OVER	± ---
ANGULAR ±1 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	1:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	YFUJITA
DATE	2009/08/07
CHECKED BY	SHOSHIKAWA
DATE	2009/08/07
APPROVED BY	AHORINO
DATE	2009/08/07
MATERIAL NO.	SEE CHART
DOCUMENT NO.	SD-502078-006
SHEET NO.	3 OF 3
SIZE	A3

TITLE
0.25MM PITCH FPC CONN
HGT=1.0 HSG ASSY
EMBOSSED TAPE PACKAGE

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