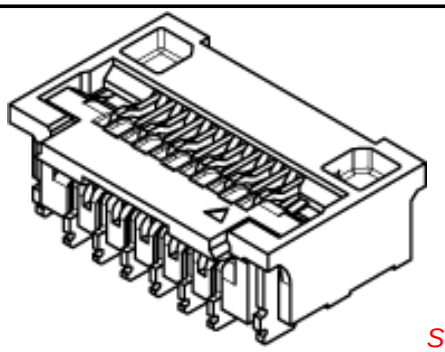
This document was generated on 04/02/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 5033203760

Status: Active

Description: 0.25mm (.010") Pitch Easy-On™ Type FPC Connector, 1.65mm (.065") Mated Height, Right Angle, SMT, Bottom Contact Style, 37 Circuits



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-503320-001 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	FFC/FPC Connectors
Series	503320
Product Name	Easy-On™

Physical

Circuits (Loaded)	37
Contact Position	Bottom
Durability (mating cycles max)	10
Entry Angle	90° Angle
Mated Height (in)	0.065 In
Mated Height (mm)	1.65 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	-40°C to +85°C
Termination Interface: Style	Surface Mount
Wire/Cable Type	FPC only

Electrical

Current - Maximum per Contact	0.3A
Voltage - Maximum	50V

Material Info

Reference - Drawing Numbers

Product Specification	PS-503320-001, RPS-503320-001
Sales Drawing	SD-503320-001, SD-503320-002

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not Reviewed

China RoHS

Need more information on product environmental compliance?

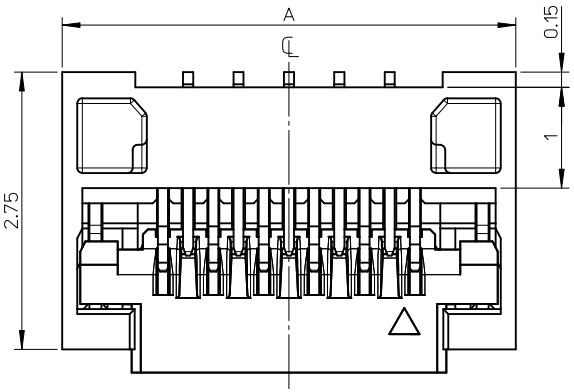
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

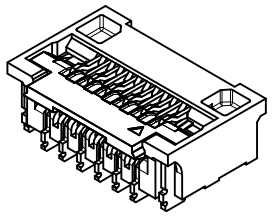
Please visit the Contact Us section for any non-product compliance questions.

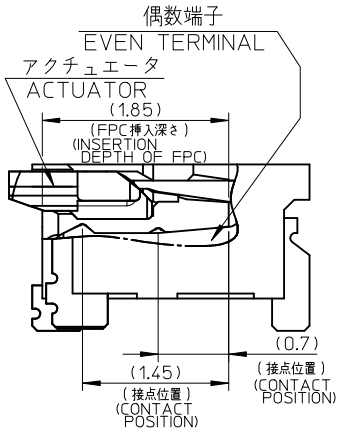
Search Parts in this Series
503320Series

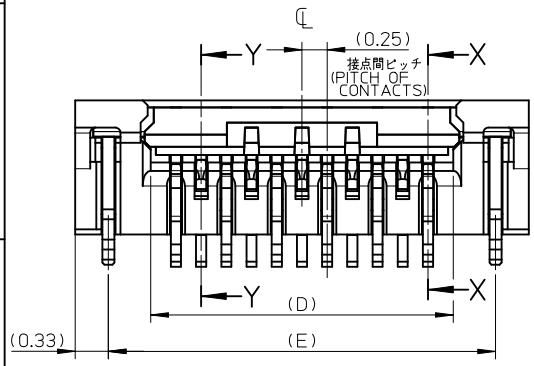
This document was generated on 04/02/2010

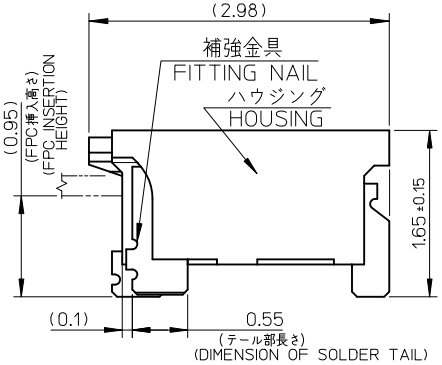
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



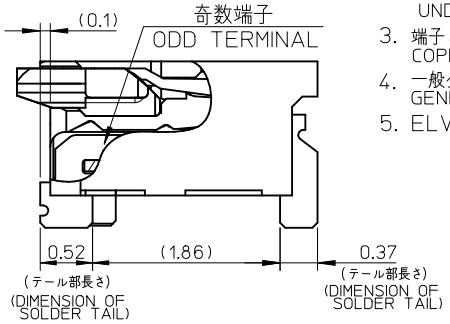


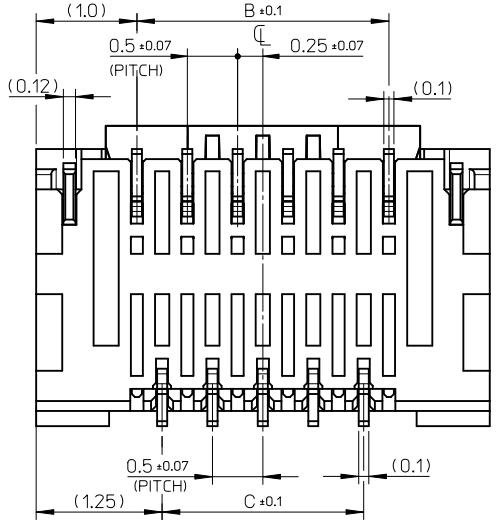


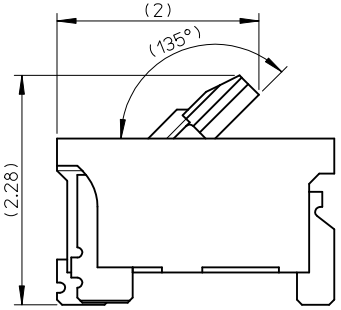




SECTION Y-Y







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 : 液晶ポリマー(ガラス充填、UL94V-0 、ベージュ)
   - アクチュエータ : ポリアミド(ガラス充填、UL94V-0 、黒色)
   - 奇数端子 : 銅合金
   - 偶数端子 : 銅合金
   - 補強金具 : 銅合金
   - HOUSING : LIQUID CRYSTAL POLYMER (GLASS FILLED, BEIGE)
   - ACTUATOR : POLYAMIDE (GLASS FILLED, BLACK)
   - ODD TERMINAL : COPPER ALLOY
   - EVEN TERMINAL : COPPER ALLOY
   - FITTING NAIL : COPPER ALLOY
2. メッキ仕様 PLATING
   - 端子 TERMINAL
     - テール部 : 部分金メッキ
     - 接点部 : 部分金メッキ 0.1μm MIN.
     - 下地 : ニッケルメッキ 1.0μm MIN.
     - TAIL AREA : SEPARATED GOLD PLATING
     - CONTACT AREA : SEPARATED GOLD PLATING 0.1μm MIN.
     - UNDER PLATING : NICKEL PLATING 1.0μm MIN.
   - 金具 FITTING NAIL
     - テール部 : スズメッキ 0.5μm MIN.
     - 下地 : ニッケルメッキ 1.0μm MIN.
     - TAIL AREA : TIN PLATING 0.5μm MIN.
     - UNDER PLATING : NICKEL PLATING 1.0μm MIN.
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. ELV & RoHS COMPLIANT.

11.34	10.5	9.5	10.0	12.0	503320-4160	41
10.34	9.5	8.5	9.0	11.0	503320-3760	37
7.34	6.5	5.5	6.0	8.0	503320-2560	25
E	D	C	B	A	EMBOSSED PACKAGE / オーダー番号 ORDER NO.	極数 CIRCUITS

CONNECTOR SERIES NO. 503320-**68

REVISED
EC NO: J2010-1518 2010/02/03
DRWN:YFUJITA 2010/02/04
CH'KD:SHOSHIKAWA 2010/02/04
APPR:SHOSHIKAWA 2010/02/04
DESCRIPTION
REV
A

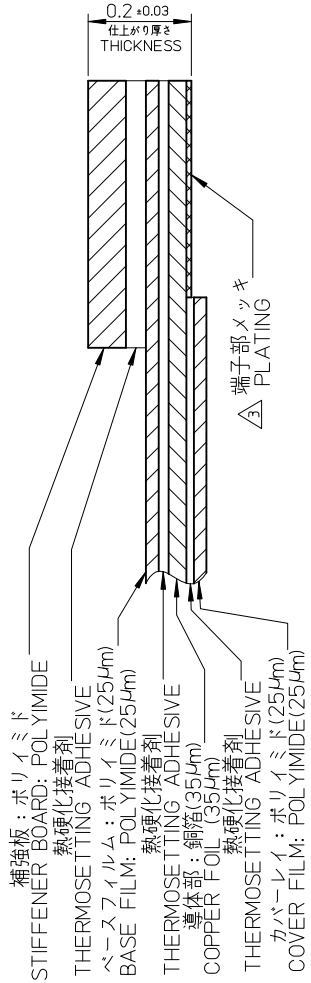
GENERAL TOLERANCES (UNLESS SPECIFIED)

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

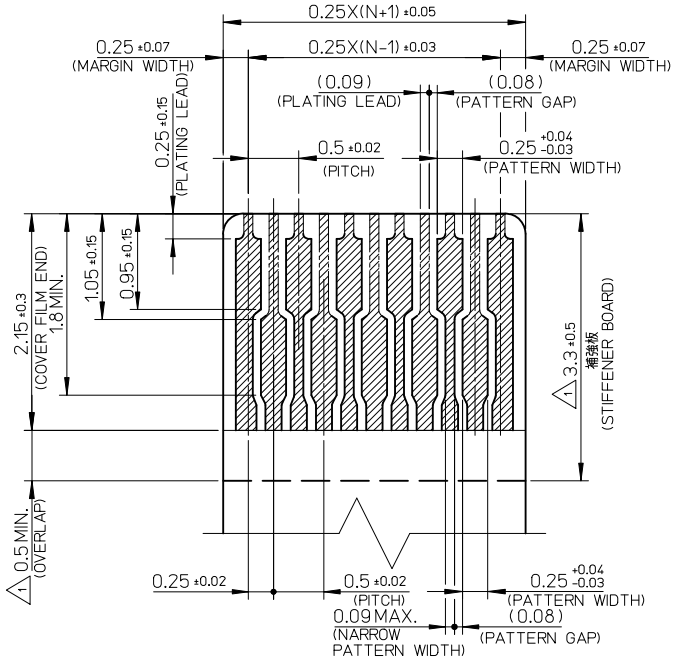
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	20:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	M.TAKASAKI 2009/05/20
CHECKED BY / DATE	M.HAYASHI 2009/05/20
APPROVED BY / DATE	N.UKITA 2009/05/20
MATERIAL NO.	SEE CHART
TITLE	0.25 PITCH FPC CONN E/O HGT=1.65 BTM CONTACT
	MOLEX INCORPORATED
DOCUMENT NO.	SD-503320-001
SHEET NO.	1 OF 2
SIZE	A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

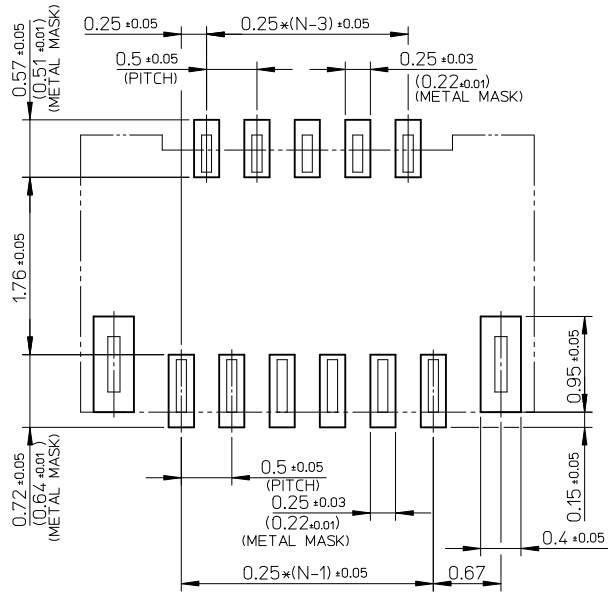


FPC構成材料例
EXAMPLE OF FPC COMPOSITION MATERIAL



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 推奨マスク厚 ：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: J2010-1518 2010/02/03
DRWN:YFUJITA 2010/02/04
CH'KD:SHOSHIKAWA 2010/02/04
APPR:SHOSHIKAWA 2010/02/04
DESCRIPTION
REV
A

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

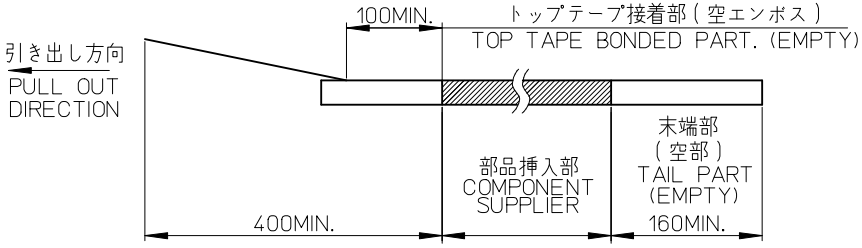
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

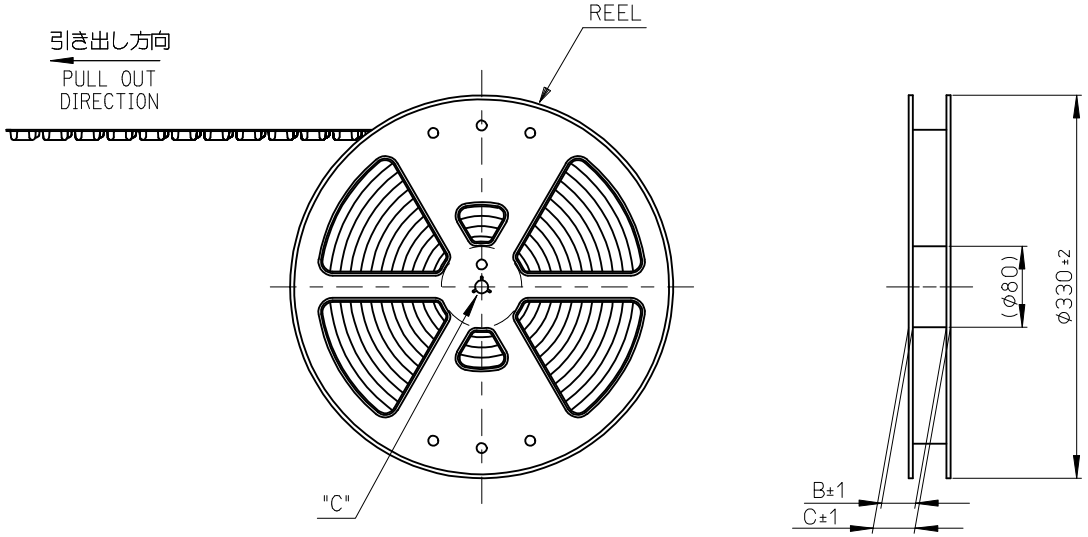
DIMENSION STYLE	MM ONLY
SCALE	20:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	M.TAKASAKI 2009/05/20
CHECKED BY / DATE	M.HAYASHI 2009/05/20
APPROVED BY / DATE	N.UKITA 2009/05/20
MATERIAL NO.	SEE SHEET 1
TITLE	0.25 PITCH FPC CONN E/O HGT=1.65 BTM CONTACT
	MOLEX INCORPORATED
DOCUMENT NO.	SD-503320-001
SHEET NO.	2 OF 2
SIZE	A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

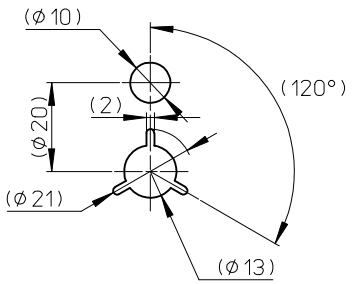
注記 NOTES

1. 製品詳細寸法については図面 SD-503320-001 を参照下さい。
   RE DETAILED DIMENSION, SEE SD-503320-001
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





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>
5. ELV & RoHS COMPLIANT



DETAIL "C"

RELEASED	EC NO: J2010-0413	2009/09/15	
	DRWN:C.ARIZONO	2009/09/15	
	CH'KD:T.HARUYAMA	2009/09/15	
	APPR:NUKITA		DESCRIPTION
0			REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

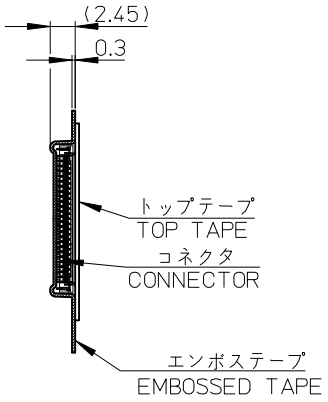
10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR ±--- °	

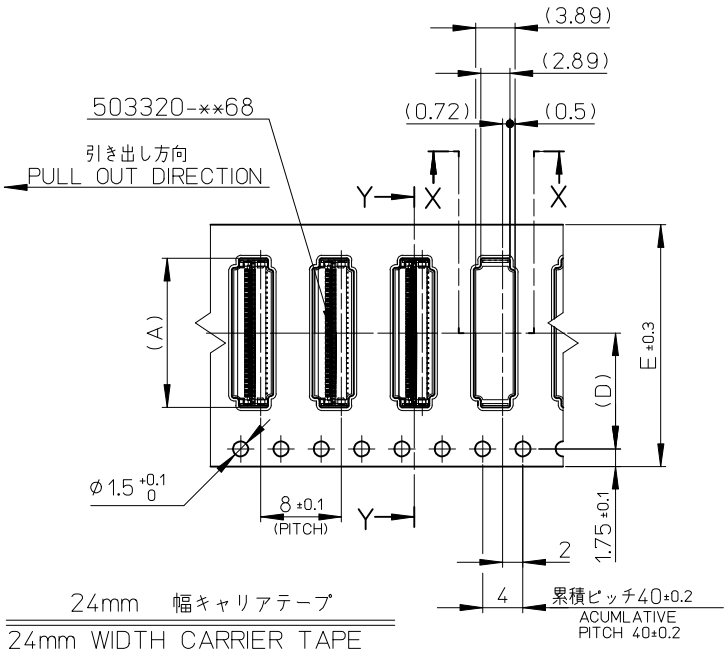
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY	SCALE: ---	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: C.ARIZONO	DATE: 2009/05/20	TITLE: 0.25MM PITCH FPC CONN HGT=1.65 HSG ASSY EMBOSSED TAPE PACKAGE	
CHECKED BY: T.HARUYAMA	DATE: 2009/05/20		
APPROVED BY: N.UKITA	DATE: 2009/05/20	MOLEX INCORPORATED	
MATERIAL NO.: SEE CHART		DOCUMENT NO.: SD-503320-002	SHEET NO.: 1 OF 2
MATERIAL NO.	503320-**60		

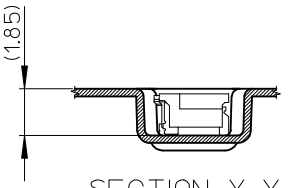
SIZE A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION





24mm 幅キャリアテープ
24mm WIDTH CARRIER TAPE



SECTION X-X

24	11.5	29.4	25.4	12.3	503320-4160	41
				11.3	503320-3760	37
				8.3	503320-2560	25
E キャリアテープ幅 CARRIER TAPE WIDTH	(D)	C	B	(A)	EMBOSSED PACKAGE オーダー番号 ORDER NO.	極数 CKT.
					MATERIAL NO. 503320-**60	

RELEASED
EC NO: J2010-0413 2009/09/15
DRWN:C.ARIZONO 2009/09/15
CH'KD:T.HARUYAMA 2009/09/15
APPR:N.UKITA 2009/09/15
DESCRIPTION
REV
0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: C.ARIZONO DATE: 2009/05/20
CHECKED BY: T.HARUYAMA DATE: 2009/05/20
APPROVED BY: N.UKITA DATE: 2009/05/20

TITLE: 0.25MM PITCH FPC CONN HGT=1.65 HSG ASSY EMBOSSED TAPE PACKAGE

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-503320-002
SHEET NO.: 2 OF 2

SIZE A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION