

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

5022443330

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, 33 Circuits, Lead-free

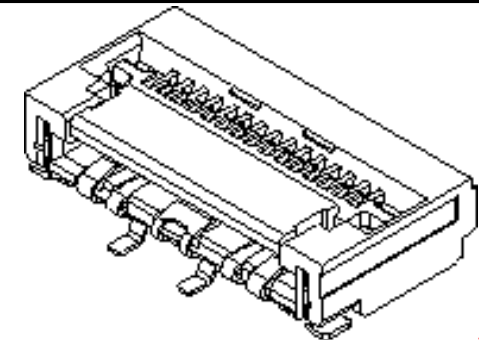


image - Reference only

Series

Documents:

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

General

Product Family

Series

Product Name

FFC/FPC Connectors

502244

Easy-On™

Physical

Circuits (Loaded)

Color - Resin

Contact Position

Durability (mating cycles max)

Entry Angle

Mated Height (in)

Mated Height (mm)

Material - Metal

Material - Plating Mating

Material - Plating Termination

Number of Rows

Orientation

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Polarized to PCB

Stackable

Temperature Range - Operating

Termination Interface: Style

Wire/Cable Type

33

Black, Natural

Bottom

20

90° Angle

0.092 In

2.33 mm

Phosphor Bronze

Gold

Gold

1

Right Angle

No

Yes

Embossed Tape on Reel

0.020 In

0.50 mm

Yes

No

-25°C to +85°C

Surface Mount

FFC only

Electrical

Current - Maximum per Contact

Voltage - Maximum

0.4A

50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Product Specification

Sales Drawing

PS-502244-001, RPS-502244-001, RPS-502244-002, RPS-502244-003

SD-502244-001, SD-502244-002

EU RoHS

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

China RoHS



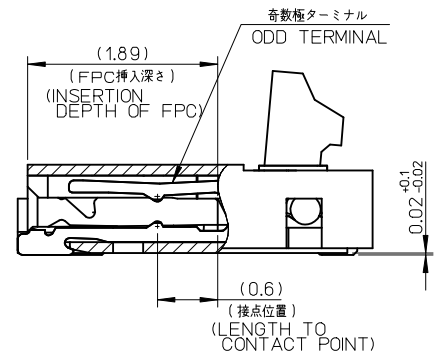
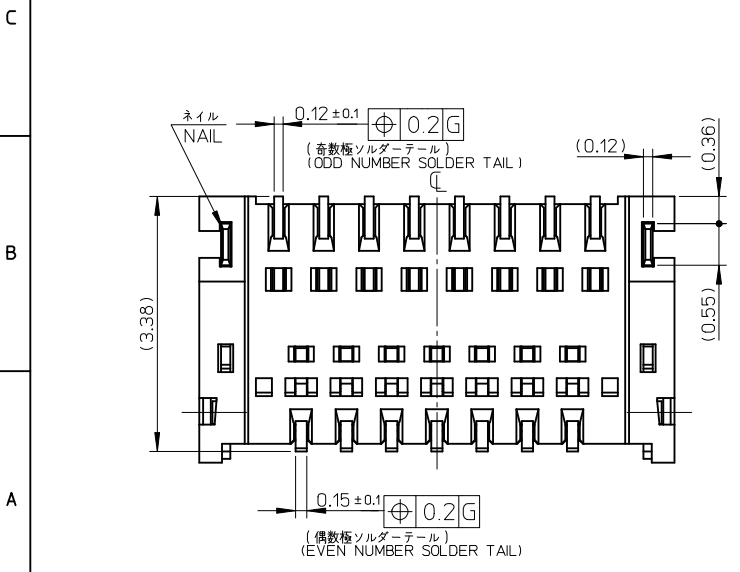
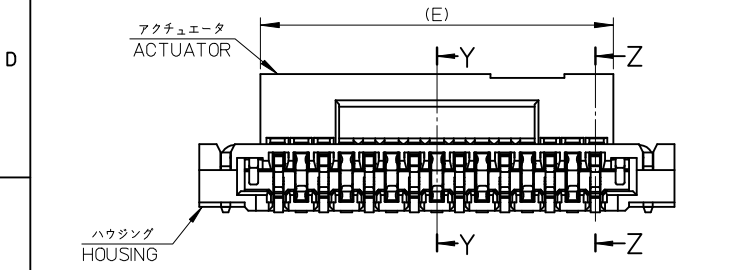
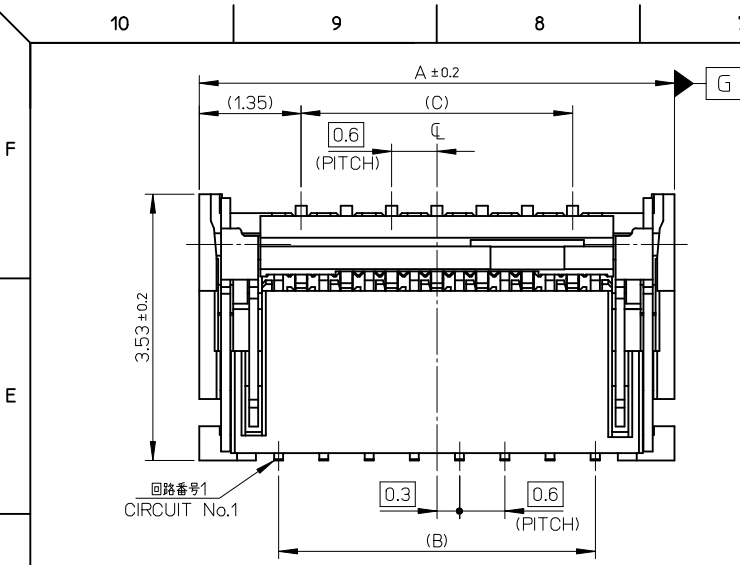
**Need more information on product
environmental compliance?**

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

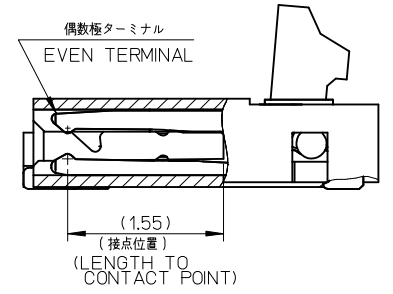
Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series
502244Series

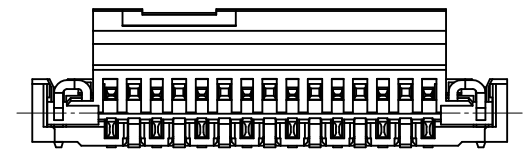
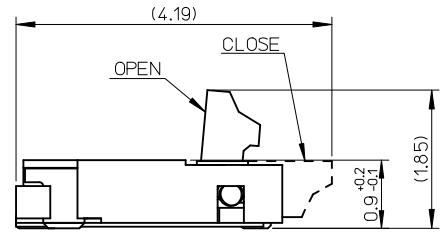
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



SECT. Z-Z



SECT. Y-Y



15.3	15.48	15.9	14.4	15.0	17.1	502250-5191	502250-5120	51
12.3	12.48	12.9	11.4	12.0	14.1	502250-4191	502250-4120	41
11.7	11.88	12.3	10.8	11.4	13.5	502250-3991	502250-3920	39
10.5	10.68	11.1	9.6	10.2	12.3	502250-3591	502250-3520	35
9.9	10.08	10.5	9.0	9.6	11.7	502250-3391	502250-3320	33
8.1	8.28	8.7	7.2	7.8	9.9	502250-2791	502250-2720	27
6.9	7.08	7.5	6.0	6.6	8.7	502250-2391	502250-2320	23
6.3	6.48	6.9	5.4	6.0	8.1	502250-2191	502250-2120	21
5.1	5.28	5.7	4.2	4.8	6.9	502250-1791	502250-1720	17
F	E	D	C	B	A	EMBOSSED TAPE PKG ORDER NO.	MATERIAL No.	CIRCUITS

REVISED EC NO: J2009-1500 DRAWN: TAKASAKI CHKD: HAYASHI APPR: NUKITA	DESCRIPTION REV D	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 15:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		10 UNDER ± 0.2		DRAWN BY T. HIRAYAMA		DATE 2008/01/31		TITLE 0.3 FPC CONN E/O B/F HSG ASSY HGT=0.9MM	
		10 OVER 30 UNDER ± 0.25		CHECKED BY K. MORIKAWA		DATE 2008/01/31		MOLEX INCORPORATED	
		30 OVER ± 0.3		APPROVED BY H. HIRATA		DATE 2008/01/31		DOCUMENT NO. SD-502250-003	
ANGULAR ± 3		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SEE TABLE		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							

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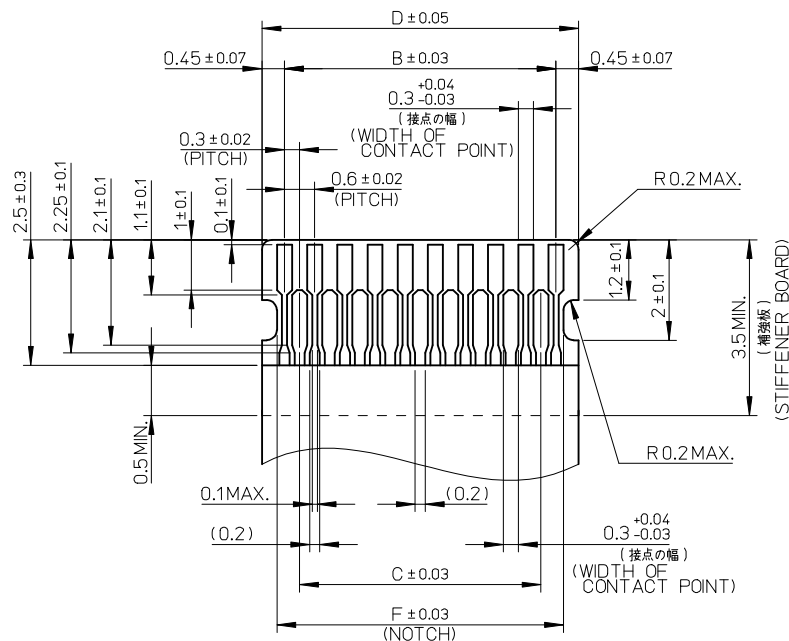
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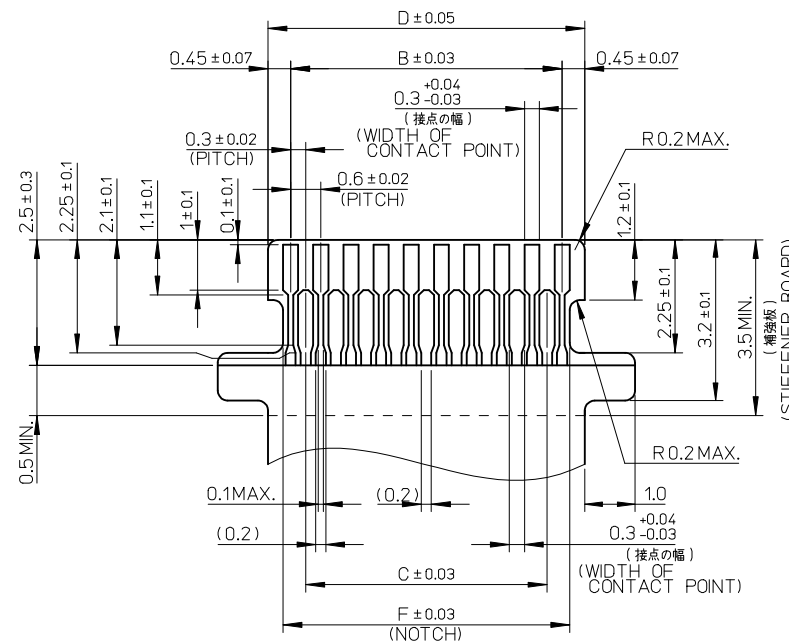
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標準 FPC
STANDARD



挿入位置確認用耳つきFPC
WITH EARS FOR FPC INSERTION ALIGNMENT

嵌合FPC推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION
(仕上がり厚さ: 0.2±0.03)
(THICKNESS: 0.2±0.03)

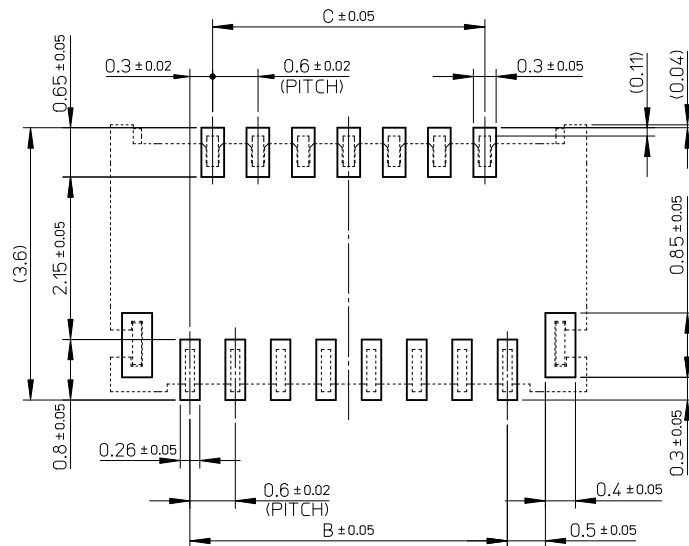
FPCについて:

抜き方向は、導体側から補強板側を推奨致します。
補強フィルム材質は、ポリイミドを推奨致します。
接着剤は熱硬化接着剤を推奨します。
尚、接着剤の接点部への付着は導通不良の原因になりますので、
染み出しが無い様、お願い致します。

ABOUT FPC:

RECOMMENDED PUNCHER DIRECTION:
FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.
RECOMMENDED MATERIAL:
STIFFENER FILM: POLYIMIDE
BONDING AGENT: THERMOSETTING AGENT
PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON ADHEREND
BECAUSE THERE IS A POSSIBILITY THAT THE EXTRA ADHESIVE
CAUSES THE DEFECT IN ELECTRICAL CONTINUITY.

SEE SHEET 1	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		10 UNDER	± 0.2	DRAWN BY T. HIRAYAMA	DATE 2008/01/31	TITLE 0.3 FPC CONN E/O B/F HSG ASSY HGT=0.9MM			
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. MORIKAWA	DATE 2008/01/31				
		30 OVER	± 0.3	APPROVED BY H. HIRATA	DATE 2008/01/31	MOLEX INCORPORATED			
		ANGULAR	± 3 °	MATERIAL NO.		DOCUMENT NO.			SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-502250-003			2 OF 3
		REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



推奨基板レイアウト図 (マウント面)
P.C BOARD PATTERN
RECOMMENDED DIMENSION
(MOUNTING AREA)

注記 NOTES

1. 使用材料 MATERIAL

ハウジング : 液晶ポリマー ガラス充填 UL94V-0 (ナチュラル)

HOUSING : LIQUID CRYSTAL POLYMER (GLASS FILLED)

UL94V-0(COLOR:NATURAL)

アクチュエータ : ポリフェニレンサルファイド ガラス充填 UL94V-0 (黒)

ACTUATOR : POLYPHENYLENE SULFIDE (GLASS FILLED)

UL94V-0(COLOR:BLACK)

ターミナル : 銅ニッケルスズ合金、ニッケル下地部分金メッキ (接触部及びテール部)

TERMINAL : COPPER NICKEL TIN ALLOY,

PARTLY GOLD(CONTACT,TAIL) OVER NICKEL PLATING

ネイル : リン青銅、ニッケル下地 錫めっき

FITTING NAIL : PHOSPHOR-BRONZE, TIN OVER NICKEL PLATING

2. ソルダータール半田付け面、及びネイル半田付け面の平坦度 : 0.1mmMAX.

COPLANARITY OF SOLDER TAILS AND FITTING NAILS

TO BE 0.1mm MAX.

3. 基板実装前にアクチュエータを操作しないで下さい。

PLEASE DO NOT OPERATE THE ACTUATOR BEFORE MOUNTING.

必ず基板に実装し、FPCを挿入してからアクチュエータを操作して下さい。

PLEASE OPERATE THE ACTUATOR AFTER MOUNTING ON

THE SUBSTRATE,AND MATING FPC.

4. 推奨メタルマスク RECOMMENDED METAL MASK SPECIFICATION

マスク厚 : 0.1mm MASK THICKNESS : 0.1mm

なお、貴社にて上記以外でご利用頂く場合は、事前に確認頂きますようお願い致します。

WHEN USE IT OTHER THAN THE ABOVE IN YOUR COMPANY,

PLEASE CONFIRM IT BEFOREHAND.

5. ELV 及び RoHS適合品

ELV AND RoHS COMPLIANT.

SEE SHEET 1 EC NO.: J2009-1500 DRAWN: M. TAKASAKI CHKD: M. YASHI APPR: NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		10 UNDER	±0.2	DRAWN BY T. HIRAYAMA	DATE 2008/01/31	TITLE 0.3 FPC CONN E/O B/F HSG ASSY HGT=0.9MM			
		10 OVER 30 UNDER	±0.25	CHECKED BY K. MORIKAWA	DATE 2008/01/31				
		30 OVER	±0.3	APPROVED BY H. HIRATA	DATE 2008/01/31	 MOLEX INCORPORATED			
		ANGULAR ±3 °		MATERIAL NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-502250-003		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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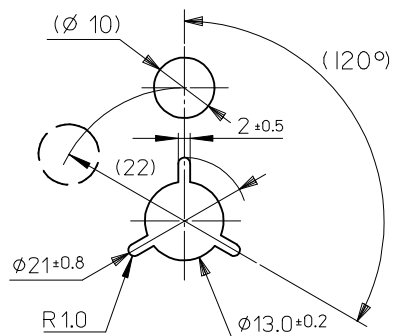
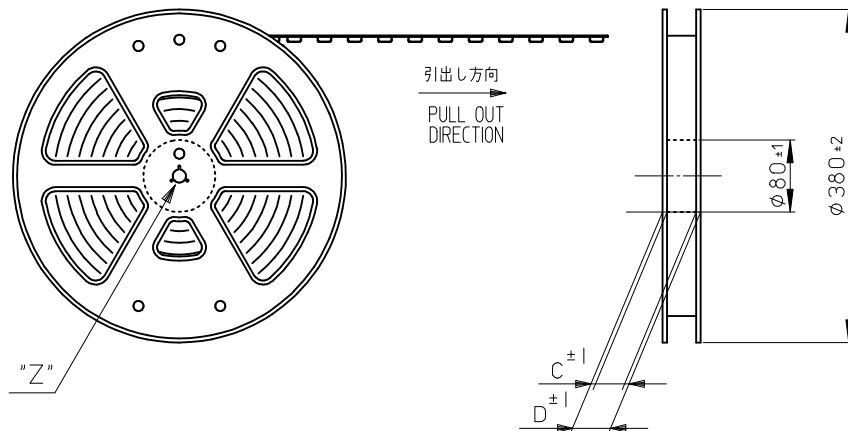
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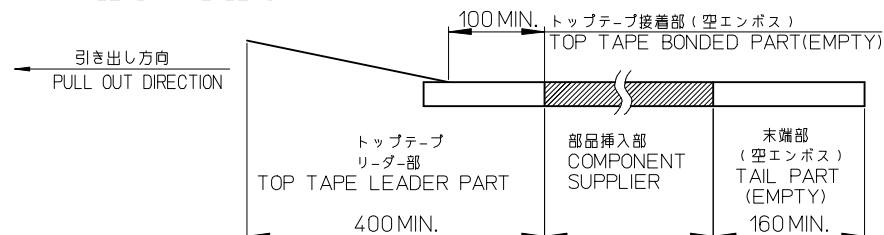
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DETAIL "Z"

NOTES

- 製品 (502250-**20) の詳細寸法については、
図面SD-502250-003をご参照ください。
IN THE PACKAGE, PART NO. 502250-**20 DETAILED DIMENSIONS,
REFER TO SALES DRAWING NO. SD-502250-003.
- 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, OTHER
リール (REEL): ポリスチレン (POLYSTYRENE) <リサイクル材を含む>
<RECYCLE MATERIAL CONTAINED>
- ELV 及び RoHS 適合品
ELV AND RoHS COMPLIANT.

REVISED EC NO: J2009-1500 DRWN:MTAKASAKI 2008/12/09 CHKD:MHAYASHI 2008/12/11 APPR:NUKITA 2008/12/11 C	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
		10 UNDER	± 0.2	T. HIRAYAMA	2008/01/31	TITLE 0.3 FPC CONN E/O B/F HGT=0.9MM EMBSTP PKG		MOLEX INCORPORATED	SHEET NO. 1 OF 3
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. MORIKAWA	2008/01/31				
		30 OVER	± 0.3	APPROVED BY H. HIRATA	2008/01/31				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-502250-004				
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

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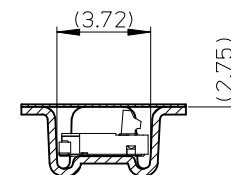
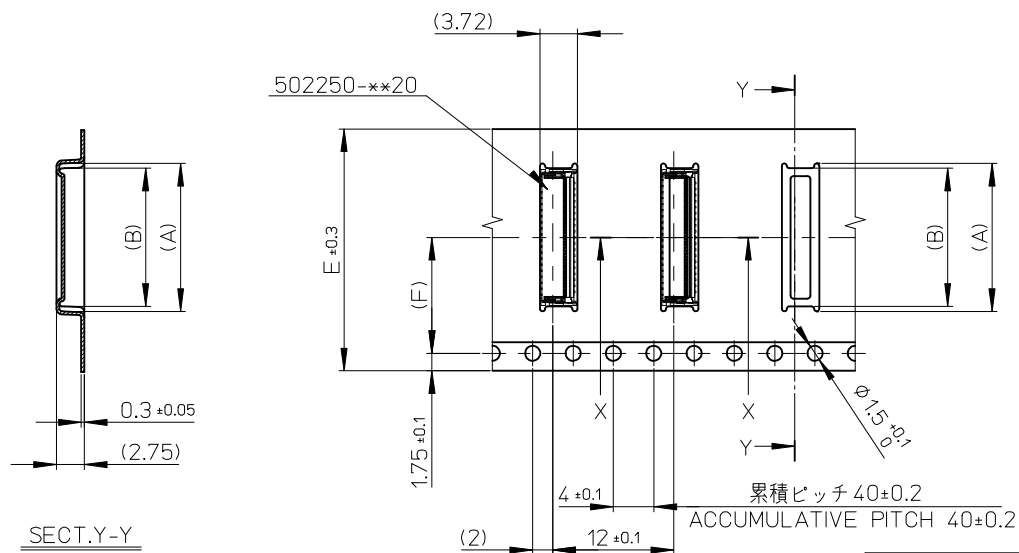
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引き出し方向
PULL OUT DIRECTION



SECT.X-X

SECT.Y-Y

24	11.5	24	29.4	25.4	14.3	15.3	502250-4191	41
					13.7	14.7	502250-3991	39
					12.5	13.5	502250-3591	35
					11.9	12.9	502250-3391	33
					10.1	11.1	502250-2791	27
					8.9	9.9	502250-2391	23
					8.3	9.3	502250-2191	21
16	7.5	16	21.4	17.4	7.1	8.1	502250-1791	17
キャリアテープ幅 CARRIER TAPE WIDTH					(F)	E	D	C
					(B)	(A)	製品番号 MATERIAL NO.	極数 CIRCUIT

MODEL No. 502250-**-91

DESIGN UNITS
METRICTHIRD ANGLE
PROJECTION

SEE SHEET 1 EC NO.: J2009-1500 DRWN: MTAKASAKI 2008/12/09 CHKD: HAYASHI 2008/12/11 APPR: NUKITA 2008/12/11	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
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		ANGULAR ±3 °		MATERIAL NO.						DOCUMENT NO.	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-502250-004					2 OF 3	
REV			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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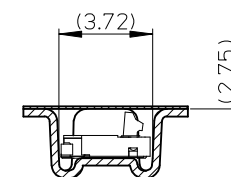
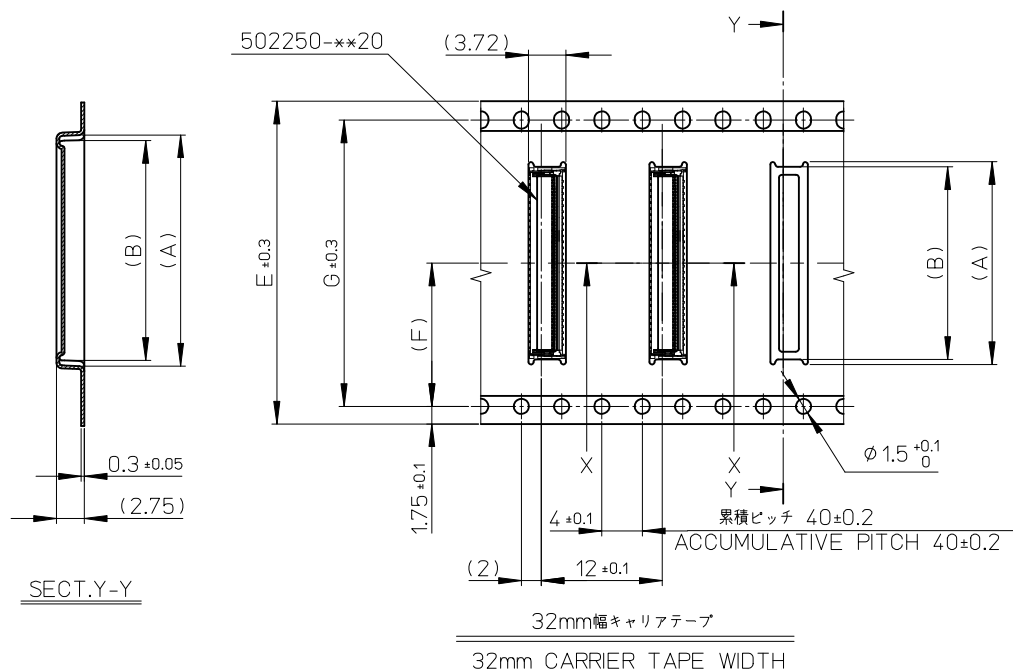
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引き出し方向
PULL OUT DIRECTION



SECT.X-X

SECT.Y-Y

32	28.4	14.2	32	37.4	33.4	17.3	18.3	502250-5191	51
キャリアテープ幅 CARRIER TAPE WIDTH	G	(F)	E	D	C	(B)	(A)	製品番号 MATERIAL NO.	極数 CIRCUIT

SEE SHEET 1 EC NO.: J2009-1500 DRWN: MTAKASAKI 2008/12/09 CHKD: HAYASHI 2008/12/11 APPR: NUKITA 2008/12/11	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
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