

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

5021184591

Status:

Active

Description:

0.50mm (.020") Pitch Easy-On™ BackFlip™ FPC Connector, 0.90mm (.035") Height, Right Angle, SMT, Dual Contact Style, 45 Circuits, Lead-free

Documents:

Drawing (PDF)

Product Specification PS-502118-002 (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	FFC/FPC Connectors
Series	502118
Product Name	BackFlip™, Easy-On™
Physical	
Circuits (Loaded)	45
Color - Resin	Black, White
Contact Position	Dual
Durability (mating cycles max)	10
Entry Angle	90° Angle
Mated Height (in)	0.035 In
Mated Height (mm)	0.90 mm
Material - Metal	Phosphor Bronze
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)	0.020 In
Pitch - Mating Interface (mm)	0.50 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	0.5A
Voltage - Maximum	50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers	
Product Specification	PS-502118-002
Sales Drawing	SD-502118-003, SD-502118-004

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed



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.

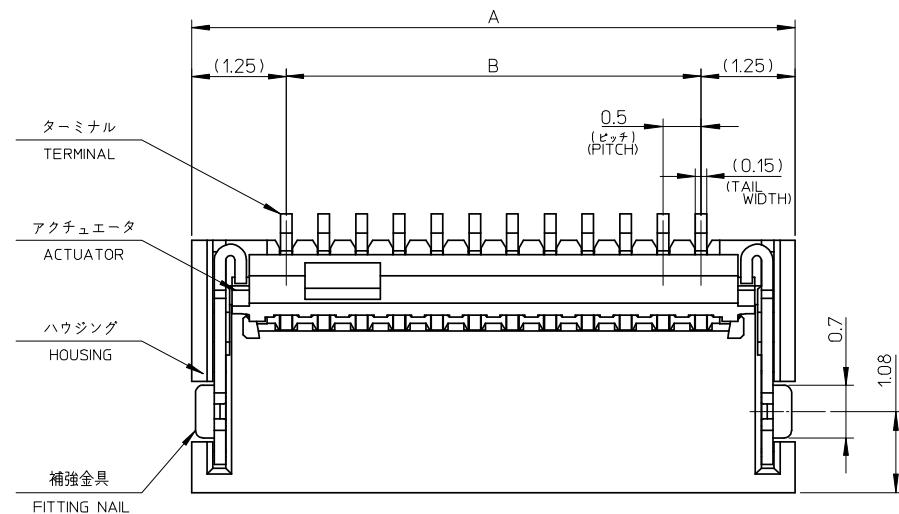
Search Parts in this Series

502118Series

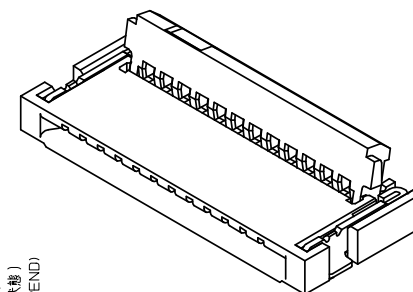
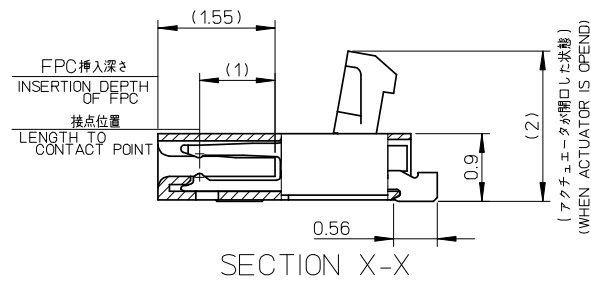
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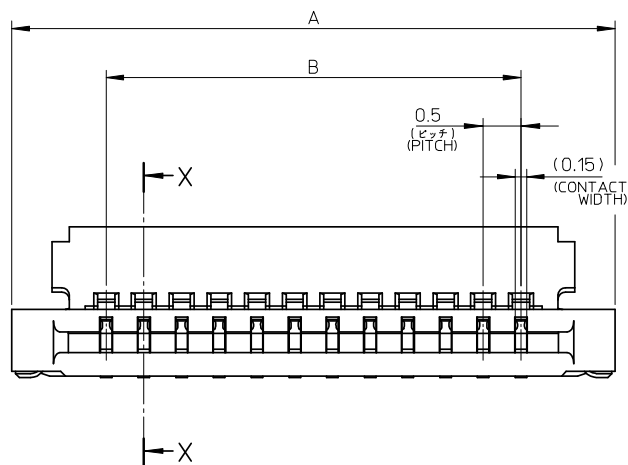
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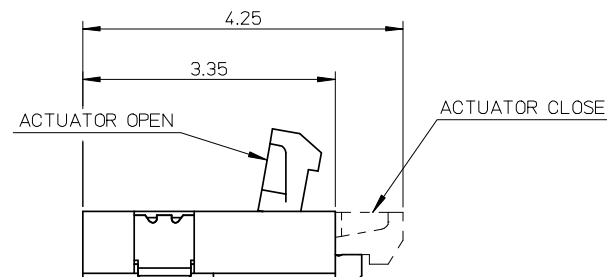
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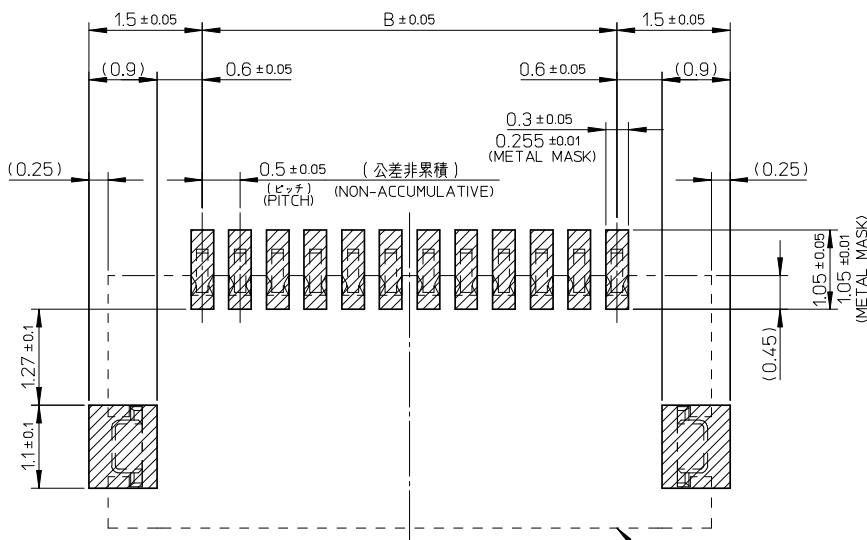


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25.5	24.5	27	502118-5090	502118-5011	50
C	B	A	EMBOSSED PACKAGING	MATERIAL NO.	CIRCUITS
			ORDER NO.	DESIGN UNITS	THIRD ANGLE PROJECTION
			SCALE	METRIC	

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RELEASED EC NO: J2009-0131 DRWN:HON001 CHKD:SHIMOMYAMA APPR:HIRATA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE //	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY HONO		DATE 2008/07/15	TITLE 0.5 FPC CONN BACK FLIP H=0.9 UPR/BTM CONT			
		10 OVER 30 UNDER	± 0.25	CHECKED BY HSHIMOMYAMA		DATE 2008/07/15				
		30 OVER	± 0.3	APPROVED BY HHIRATA		DATE 2008/07/15	MOLEX MOLEX INCORPORATED			
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-502118-001		1 OF 2			
	0	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



参考基板レイアウト
P.C BOARD PATTERN
DIMENSION (REF.)
(マウント面)
(MOUNTING SIDE)

コネクタ位置
CONNECTOR POSITION

推奨メタルマスク厚さ: 0.12mm
RECOMMENDED METAL MASK THICKNESS: 0.12mm

注 記 NOTE

1. 使用材料 MATERIAL

- ハウジング : ポリアミド樹脂, 色: ベージュ
HOUSING : GLASS FILLED, UL94V-0
POLYAMIDE, COLOR: BEIGE
GLASS FILLED, UL94V-0
- アクチュエータ : ポリアミド樹脂, 色: 茶
ACTUATOR : GLASS FILLED, UL94V-0
POLYAMIDE, COLOR: BROWN
GLASS FILLED, UL94V-0
- ターミナル : りん青銅 (t=0.15)
TERMINAL : PHOSPHOR BRONZE (t=0.15)
- 補強金具 : りん青銅 (t=0.15)
FITTING NAIL : PHOSPHOR BRONZE (t=0.15)

△ R0.3はFPC導体部にかからないこと。
R0.3 MUST NOT BE OVERLAPPED
TO PATTERN OF FPC.

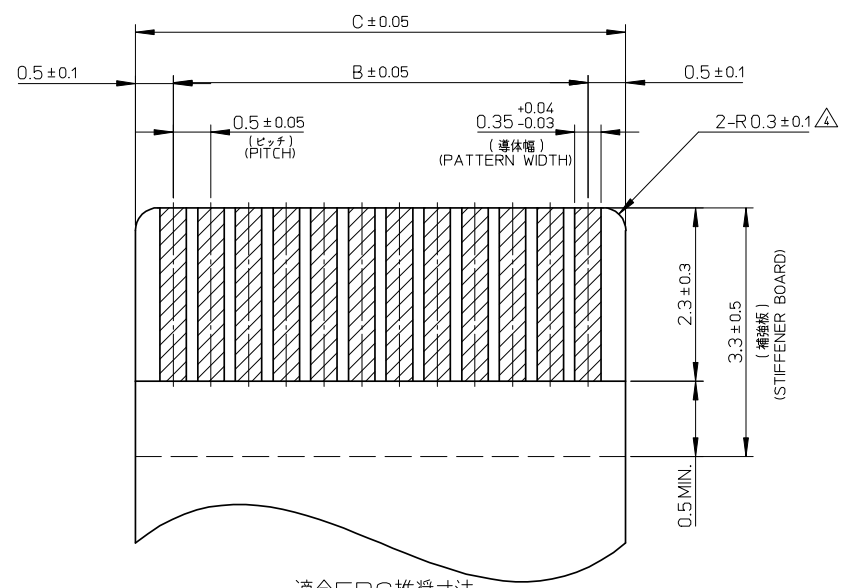
5. ELV及びRoHS適合品
ELV AND RoHS COMPLIANT.

6. 基板実装前にアクチュエータを操作しないで下さい。
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 DO NOT OPERATE THE ACTUATOR
BEFORE MOUNTING.
PLEASE OPERATE THE ACTUATOR AFTER MOUNTING ON
THE SUBSTRATE, AND MATING FPC.

2. めっき仕様 PLATING

- ターミナル
TERMINAL
ニッケル下地、部分金めっき (テールおよびコンタクト部)
SEPARATED GOLD TAIL AND CONTACT)
OVER NICKEL PLATING.
- 補強金具
FITTING NAIL
ニッケル下地、めっき
TIN OVER NICKEL PLATING.

3. 端子、補強金具の平坦度は0.1以下とする。
COPLANARITY OF SOLDER TAIL AND FITTING NAIL : 0.1 MAX.



適合FPC推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION
(仕上がり厚さ: 0.20 ± 0.03)
(THICKNESS : 0.20 ± 0.03)

FPCについて
ABOUT FPC

抜き方向は、導体側から補強板を推奨します。
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の無いよう、お願いします。

RECOMMENDED PUNCHER DIRECTION :
FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.
RECOMMENDED MATERIAL :
STIFFENER BOARD : 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.

RELEASED EC NO: J2009-0131 DRAWN:HONO01 CHKD:HSHIMOYAMA APPR:HHIRATA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE —//—	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
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		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-502118-001				2 OF 2
				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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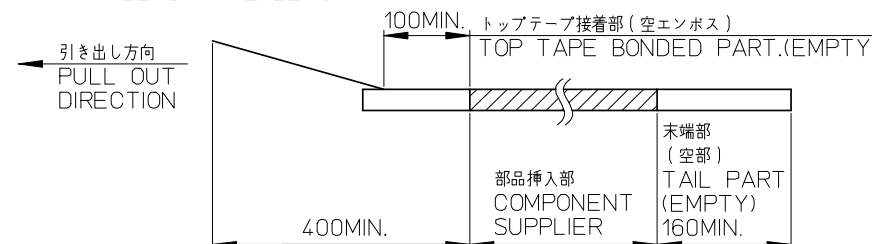
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NOTES

1. 製品詳細寸法については製品単体図面を参照下さい。
RE DETAILED DIMENSION, SEE PRODUCT DRAWING.
2. 梱包数量 : 2500個/リール
NUMBER OF CONNECTORS 2500PCS/REEL
3. リードテープ長さ
LEAD TAPE LENGTH



4. 材料

MATERIAL

キャリアテープ(CARRIRE TAPE) : ポリスチレン (POLYSTYRENE)

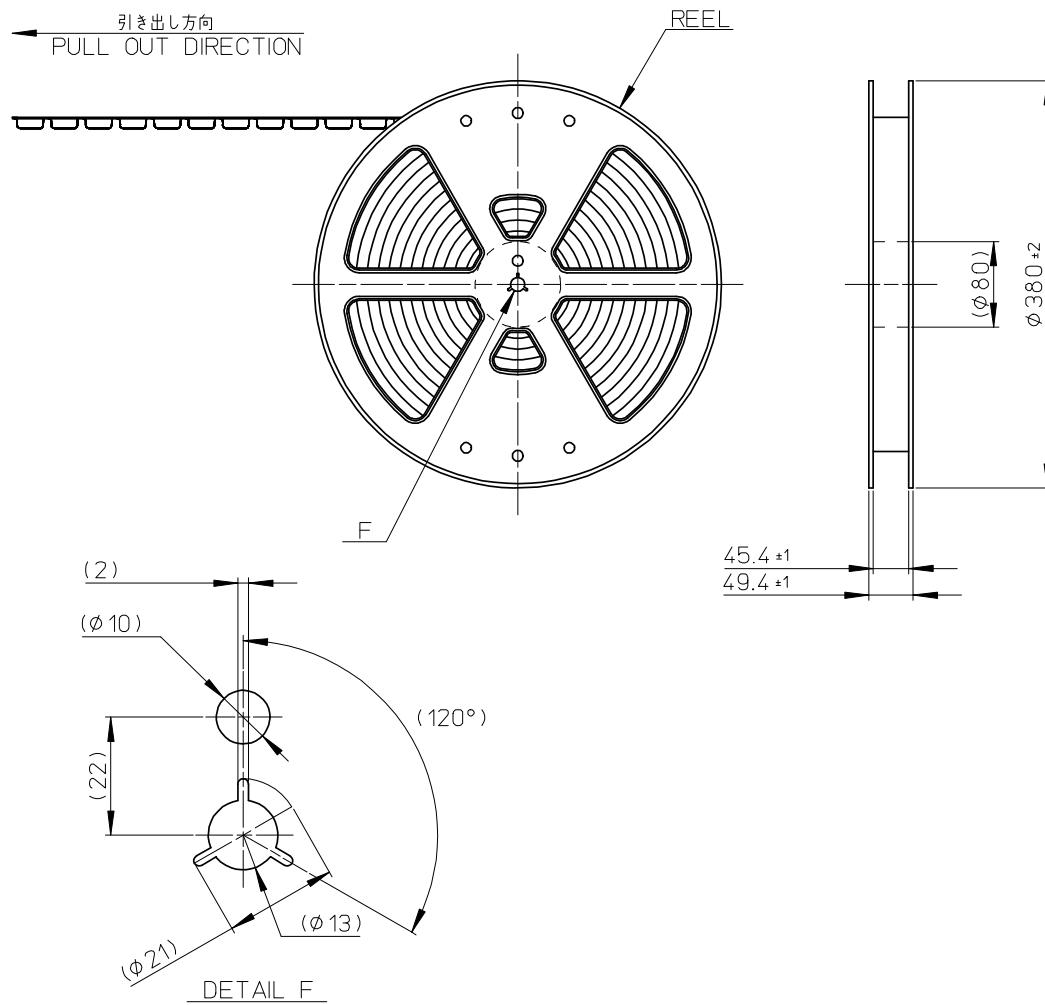
トップテープ(TOP TAPE) : PET, PE, PEF

リール(REEL) : ポリスチレン (PS) <リサイクル材を含む>

POLYSTYRENE(PS) <RECYCLE MATERIAL CONTAILED>

5. ELV及びRoHS適合品

ELV AND RoHS COMPLIANT.



RELEASED EC NO: J2009-0131 2008/07/18 DRWN:HON001 CH'KD:SHIMOYAMA 2008/07/18 APPR:HHIRATA 2008/07/18	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
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		30 OVER	± 0.3	APPROVED BY HHIRATA	DATE 2008/7/15	molex MOLEX INCORPORATED				
		ANGULAR ±1 °	MATERIAL NO. SEE CHART			DOCUMENT NO. SD-502118-002			SHEET NO. 1 OF 2	
	REV	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				

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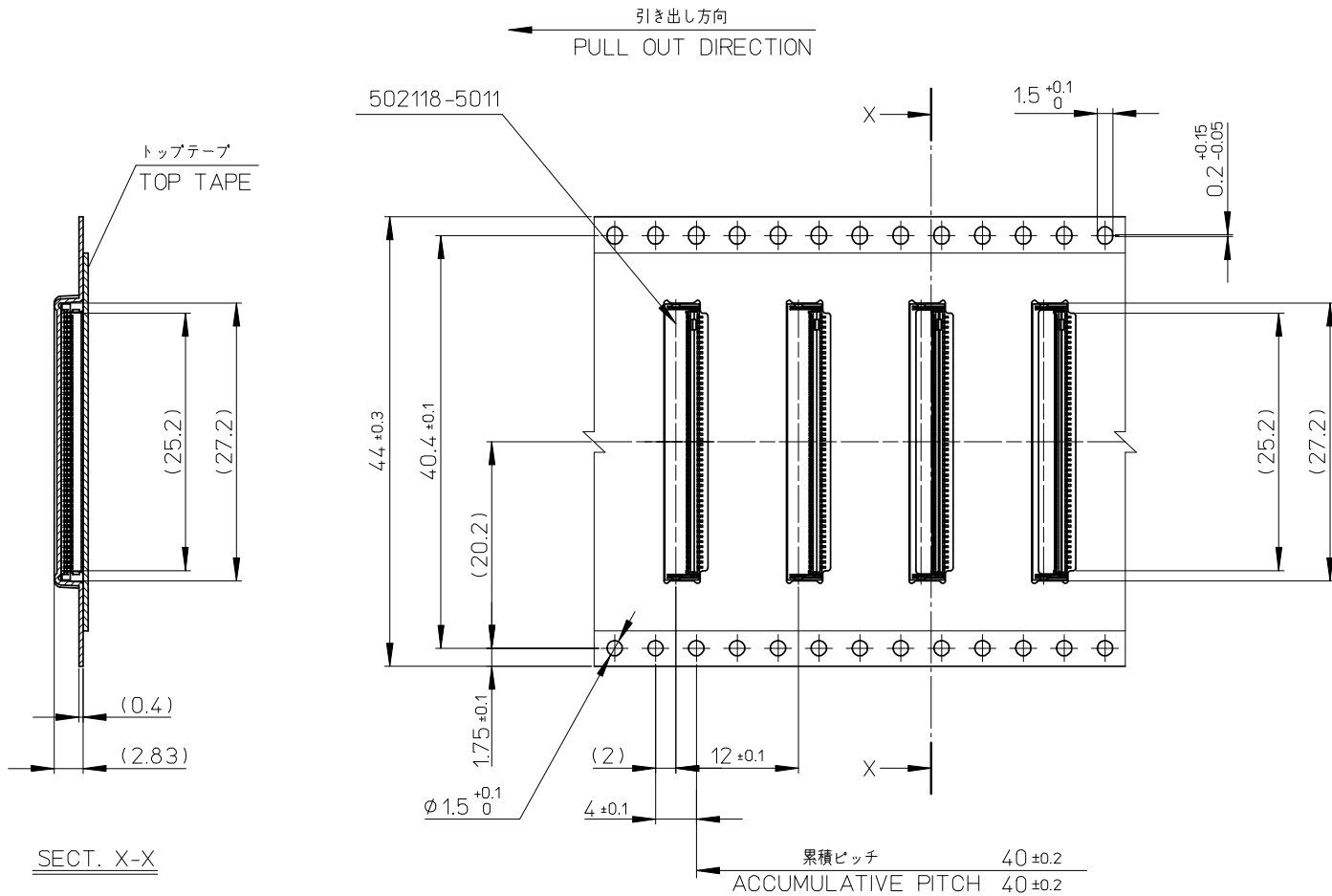
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502118-5090	50
MATERIAL NO.	CIRCUITS

RELEASED EC NO: J2009-0131 DRWN: HON001 CHKD: HSI MOYAMA APPR: HIRATA O	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				DRAWN BY HONO		DATE 2008/7/15	TITLE 0.5 FPC CONN BACK FLIP H=0.9 UPR/BTM CONT EMBSTP PKG				
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