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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 \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-502118-002 \(PDF\)](#)

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

China RoHS



Need more information on product environmental compliance?

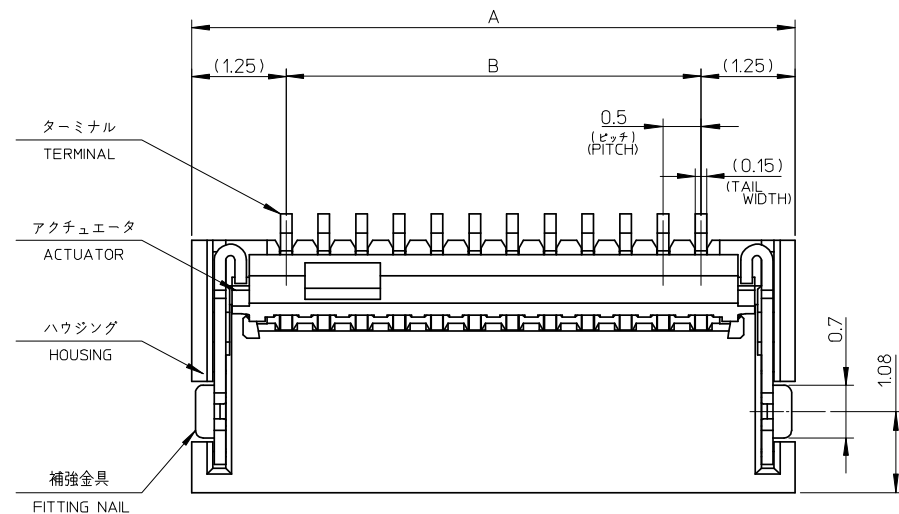
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

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

Search Parts in this Series
[502118Series](#)

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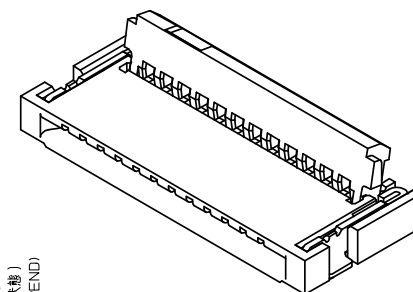
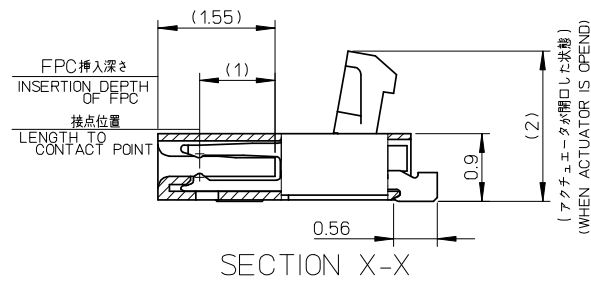
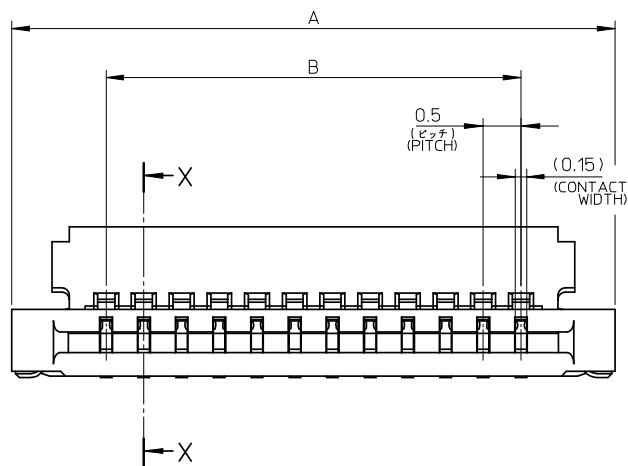
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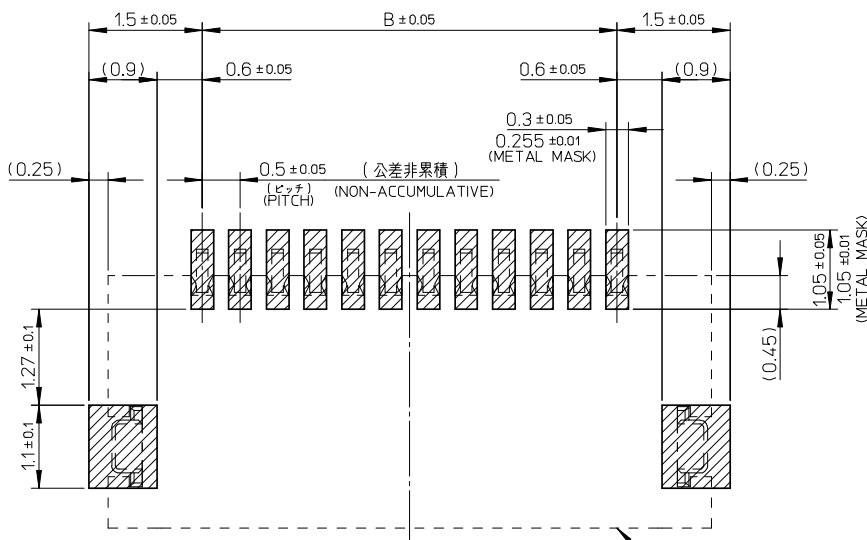
25.5		24.5	27	502118-5090	502118-5011	50
C		B	A	EMBOSSED PACKAGING	MATERIAL NO.	CIRCUITS
				ORDER NO.	DESIGN UNITS	THIRD ANGLE PROJECTION
				SCALE	METRIC	
				DRAWN BY	DATE	TITLE
				HONO	2008/07/15	0.5 FPC CONN BACK FLIP H=0.9 UPR/BTM CONT
				CHECKED BY	DATE	
				HSHIMOYAMA	2008/07/15	
				APPROVED BY	DATE	MOLEX INCORPORATED
				HHIRATA	2008/07/15	
				MATERIAL NO.	DOCUMENT NO.	SHEET NO.
				SEE CHART	SD-502118-001	1 OF 2
				SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
				A3		

RELEASED	EC NO: J2009-0131	2008/07/18
	DRWN:HONO01	2008/07/18
	CHKD:HSHIMOYAMA	2008/07/18
	APPR:HHIRATA	2008/07/18
REV	DESCRIPTION	
0		

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	

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
HONO	2008/07/15
CHECKED BY	DATE
HSHIMOYAMA	2008/07/15
APPROVED BY	DATE
HHIRATA	2008/07/15
MATERIAL NO.	
SEE CHART	
SIZE	
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SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
1:1	METRIC	
TITLE		
0.5 FPC CONN BACK FLIP H=0.9 UPR/BTM CONT		
MOLEX INCORPORATED		
DOCUMENT NO.		SHEET NO.
SD-502118-001		1 OF 2



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 FILLER, 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 FILLER, 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.

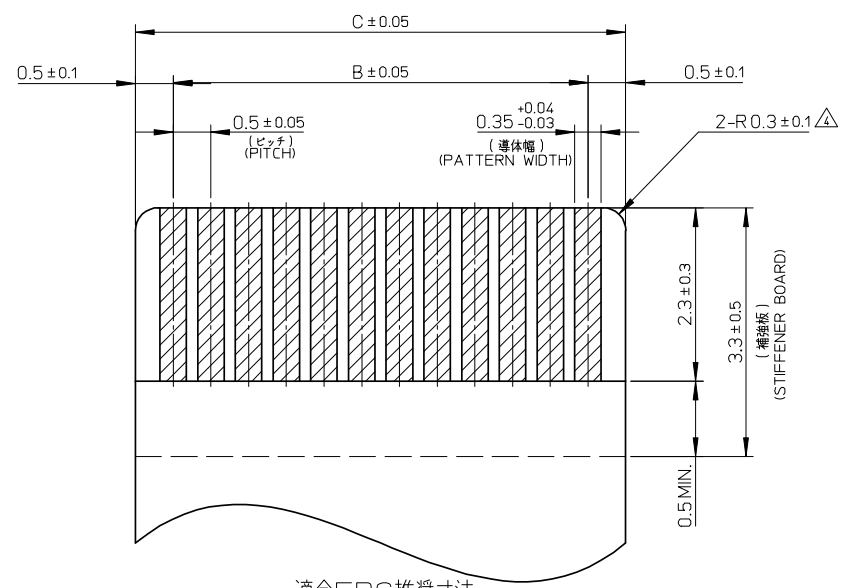
5. ELV及びRoHS適合品
ELV AND RoHS COMPLIANT.

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 錫めっき
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		
		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 HSHIMOYAMA	DATE 2008/07/15					
		30 OVER	±0.3	APPROVED BY HHIRATA	DATE 2008/07/15	MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-502118-001				2 OF 2
REV		SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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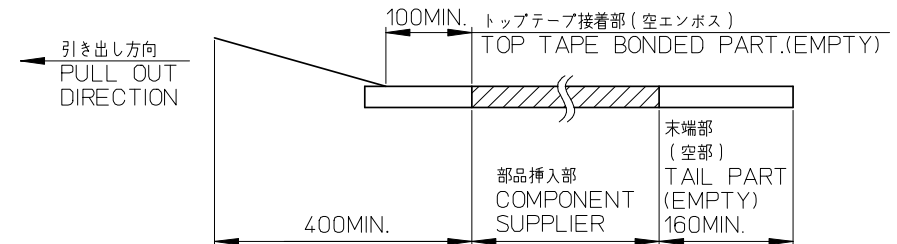
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NOTES

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)

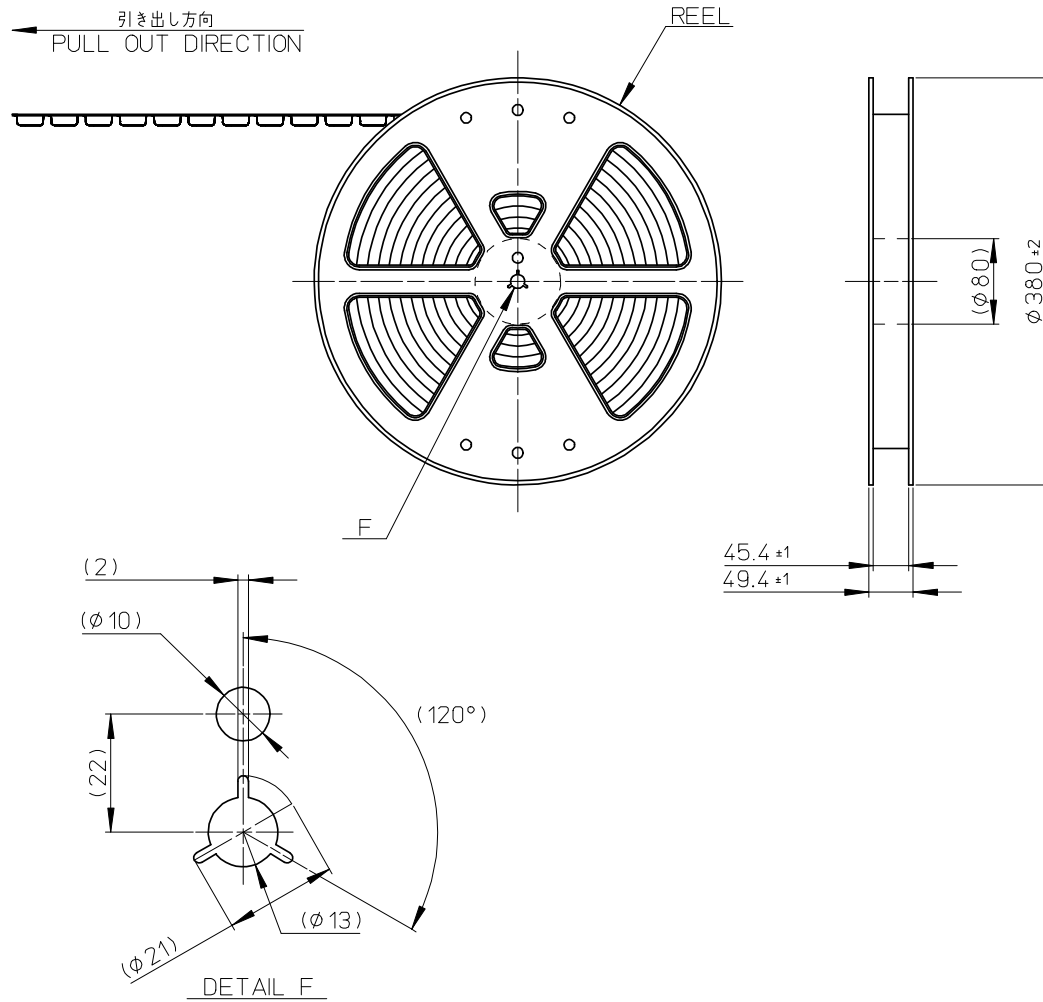
トップテープ(TOP TAPE) : PET, PE, PEF

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		
		10 UNDER	± 0.2	DRAWN BY HONO	DATE 2008/7/15	TITLE 0.5 FPC CONN BACK FLIP H=0.9 UPR/BTM CONT EMBSTP PKG				
		10 OVER 30 UNDER	± 0.25	CHECKED BY HSHIMOYAMA	DATE 2008/7/15					
		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		
	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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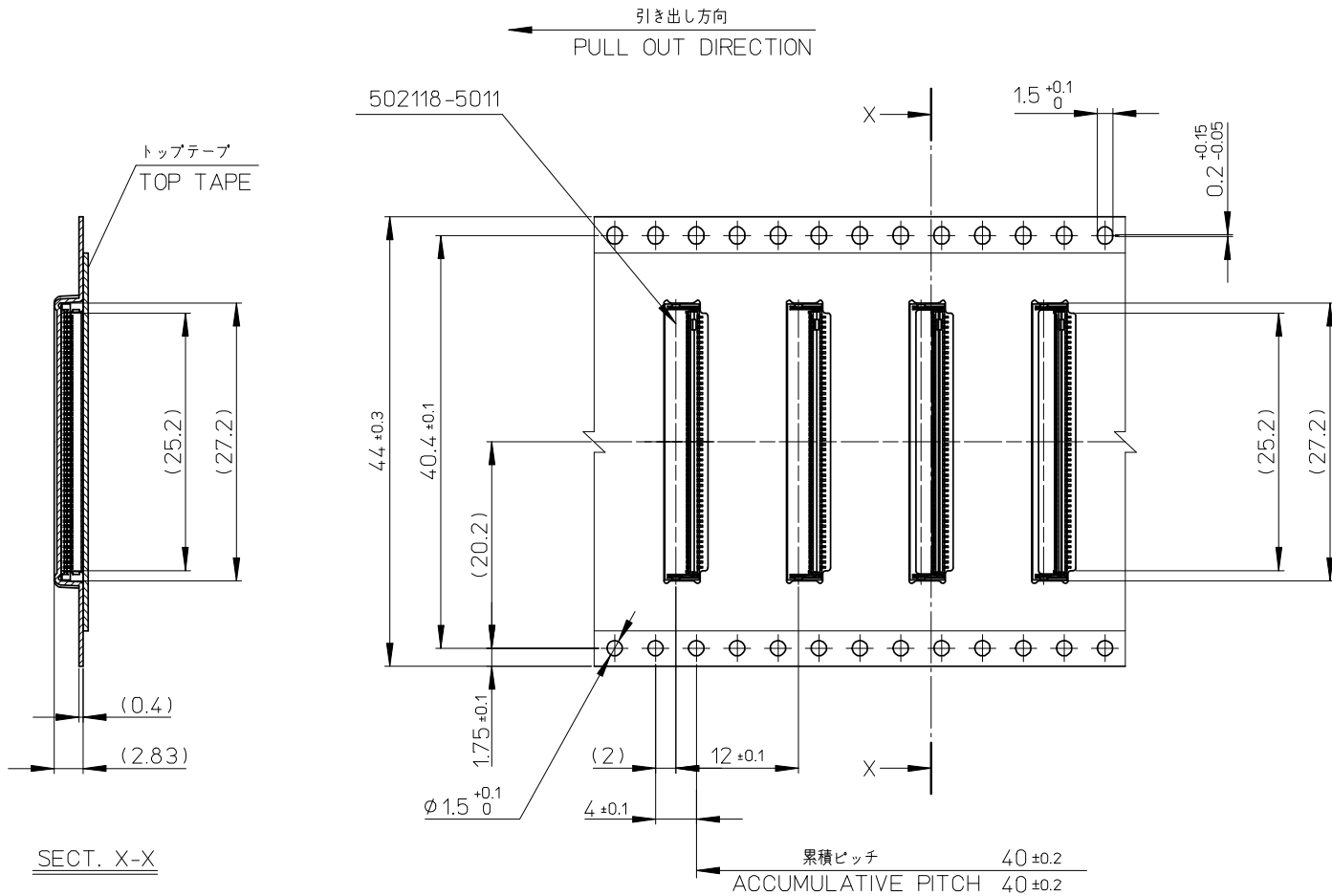
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502118-5090	50
MATERIAL NO.	CIRCUITS

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		
		10 UNDER	± 0.2	DRAWN BY HONO	DATE 2008/7/15	TITLE 0.5 FPC CONN BACK FLIP H=0.9 UPR/BTM CONT EMBSTP PKG				
		10 OVER 30 UNDER	± 0.25	CHECKED BY HSHIMOYAMA	DATE 2008/7/15					
		30 OVER	± 0.3	APPROVED BY HHIRATA	DATE 2008/7/15	molex MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-502118-002		2 OF 2		
			SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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