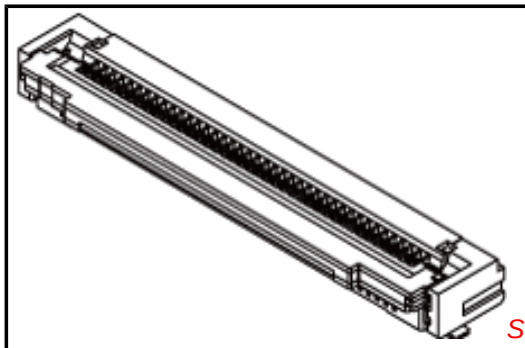
This document was generated on 04/19/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 5027905091

Status: Active

Description: 0.50mm (.020") Pitch FPC Connector, ZIF, Easy-On™, Double Bottom Contact, 50 Circuits



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-502790-001 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	FFC/FPC Connectors
Series	502790
Product Name	Easy-On™

Physical

Circuits (Loaded)	50
Contact Position	Bottom
Durability (mating cycles max)	20
Entry Angle	90° Angle
Mated Height (in)	0.098 In
Mated Height (mm)	2.50 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Number of Rows	1
Orientation	Right Angle
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	-20°C to +85°C
Termination Interface: Style	Surface Mount
Wire/Cable Type	FPC only

Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	50V

Material Info

Reference - Drawing Numbers

Product Specification	PS-502790-001, RPS-502790-001, RPS-502790-005, RPS-502790-006, RPS-502790-007, RPS-502790-009, RPS-502790-010, RPS-502790-011
Sales Drawing	SD-502790-001, SD-502790-002

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

China RoHS

Need more information on product environmental compliance?

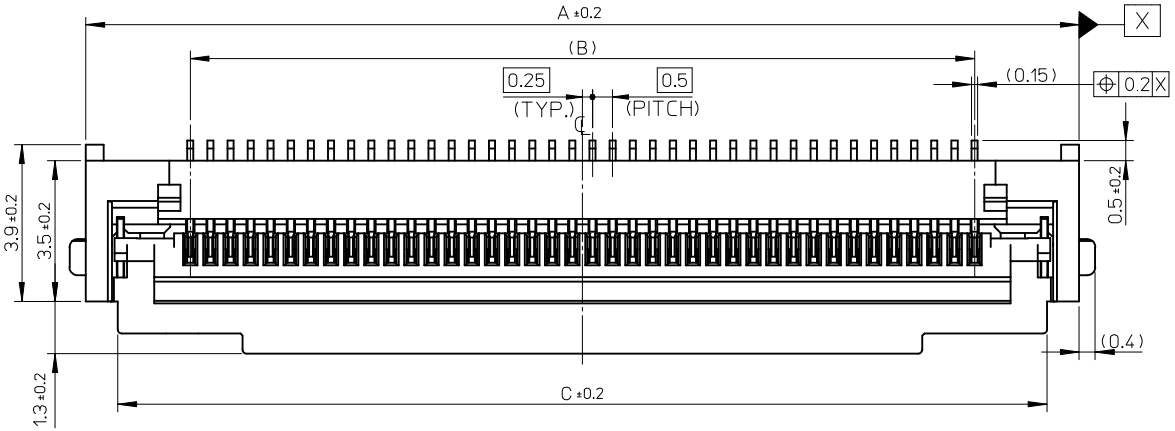
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

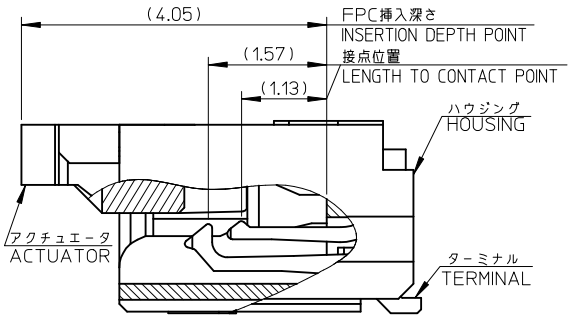
Please visit the Contact Us section for any non-product compliance questions.

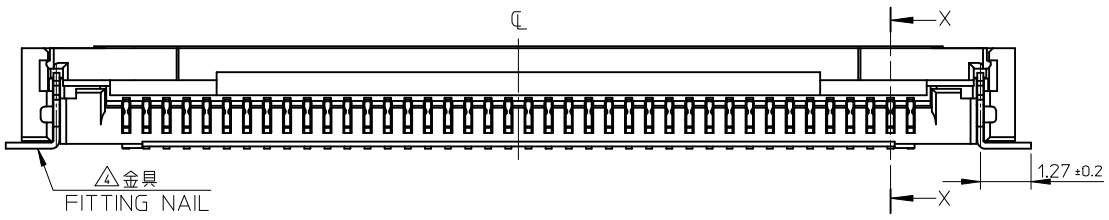
Search Parts in this Series
502790Series

This document was generated on 04/19/2010

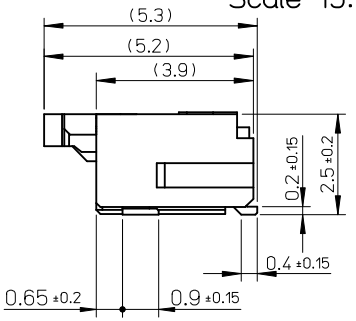
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

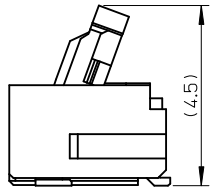






SECTION X-X
Scale 15:1





アクチュエータを開口した状態
(WHEN ACTUATOR IS OPENED)

注記 NOTES

1. 使用材料 MATERIAL
   - ハウジング HOUSING ：液晶ポリマー ガラス充填, UL94-V0(ベージュ) LIQUID CRYSTAL POLYMER GLASS FILLED,UL94V-0(BEIGE)
   - アクチュエータ ACTUATOR ：PPS ガラス充填, UL94-V0(黒) PPS GLASS FILLED, UL94V-0(BLACK)
   - ターミナル TERMINAL ：リン青銅(t=0.15) PHOSPHOR BRONZE
   - 金具 FITTING NAIL ：リン青銅(t=0.15) PHOSPHOR BRONZE
2. めっき仕様 PLATING
   - ターミナル TERMINAL
     - コンタクト部：部分金めっき（0.05μm以上）
     - テール部：部分金めっき
     - 下地：ニッケルめっき（1.0μm以上）
     - CONTACT AREA : SEPARATED GOLD PLATING (0.05 MICROMETER MINIMUM)
     - SOLDER TAIL AREA : SEPARATED GOLD PLATING
     - UNDERPLATE : NICKEL OVERALL (1.0 MICROMETER MINIMUM)
   - 金具 FITTING NAIL
     - 錫めっき（1.0μm以上）
     - 下地：ニッケルめっき（1.0μm以上）
     - TIN PLATING (1.0 MICROMETER MIN.)
     - UNDER PLATING : NICKEL PLATING (1.0 MICROMETER MIN.)
3. エンボステープ梱包時は、アクチュエータが閉じた状態とする。
   IN THE PACKAGE, ACTUATOR OF PART 502790-**11 SHOULD BE CLOSED.

4. パターン剥離止め用金具
   FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.
5. 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.
6. N: 極数 N: CIRCUIT.
7. ELV及びRoHS適合品
   ELV AND RoHS COMPLIANT
8. テールと金具を併せた平坦度は0.1mm以下とする。
   TAILS AND NAILS COPLANALITY TO BE 0.1mm MAX.

C	B	A	EMBOSSED PACKAGE / オーダー番号 ORDER No.	CIRCUIT
43.1	39.5	44.7	502790-8091	80
35.1	31.5	36.7	502790-6491	64
33.1	29.5	34.7	502790-6091	60
28.1	24.5	29.7	502790-5091	50
23.1	19.5	24.7	502790-4091	40
18.1	14.5	19.7	502790-3091	30

CONNECTOR SERIES No. 502790-**11

REVISED
EC NO: J2009-2576 2009/05/25
DRWN:MTAKASAKI 2009/05/28
CH'KD:MHAYASHI 2009/05/28
APPR:NUKITA
DESCRIPTION
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

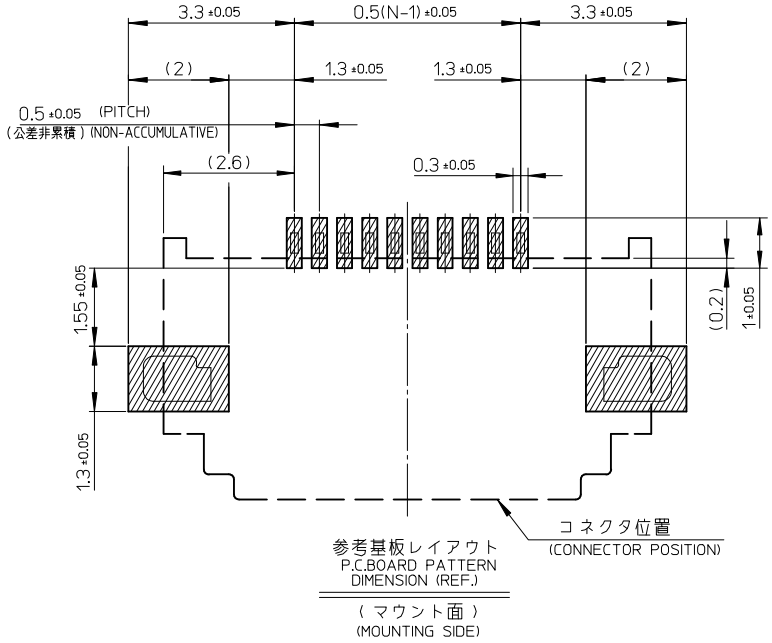
DRAWN BY: YTAKAYASU DATE: 2007/08/10
CHECKED BY: KTAKAHASHI DATE: 2007/08/10
APPROVED BY: HHIRATA DATE: 2007/08/10

TITLE: 0.5 FPC CONN. ZIF E/O 2 CONTACTS TYPE HSG ASS'Y (H=2.5)

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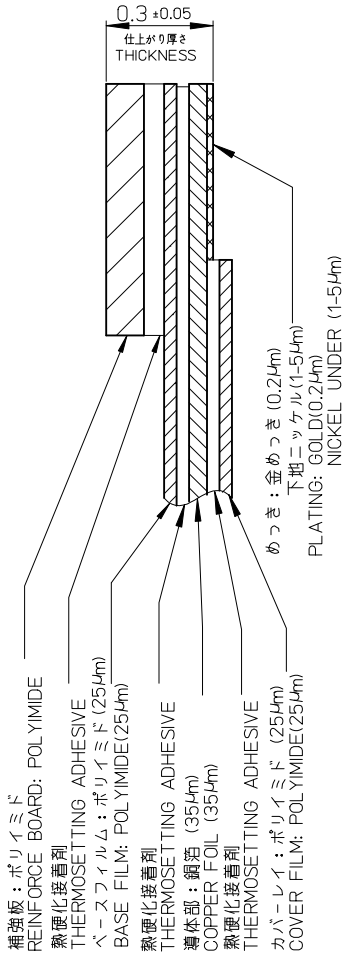
MATERIAL NO.: 502790-**11
DOCUMENT NO.: SD-502790-001
SHEET NO.: 1 OF 2
SIZE: A3

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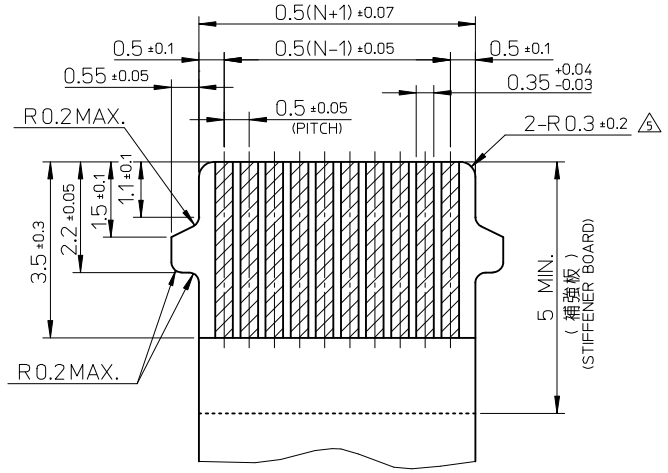


参考基板レイアウト
P.C.BOARD PATTERN
DIMENSION (REF.)

（マウント面）
(MOUNTING SIDE)



FPC構成推奨仕様
STRUCTURE OF FPC



適合FPC推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION

FPC について:

打ち抜き方向は導体側から補強板側を推奨します。
導体部については軟銅箔35μmまたは50μmを推奨します。
補強フィルム材質はポリイミドを推奨します。ベースフィルムは25μmを推奨します。
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 CONDUCTOR SPEC :
THICKNESS OF SOFT COPPER FOIL : 35 MICROMETER OR 50 MICROMETER.
RECOMMENDED MATERIAL/THICKNESS.
STIFFERNER FILM : POLYIMIDE
BASE FILM THICKNESS : 25μm
BONDING AGENT : THERMOSETTING BONDING 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 OF 2
EC NO: J2009-2576
DRWN:MTAKASAKI 2009/05/25
CH'KD:MHAYASHI 2009/05/28
APPR:NUKITA 2009/05/28
DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

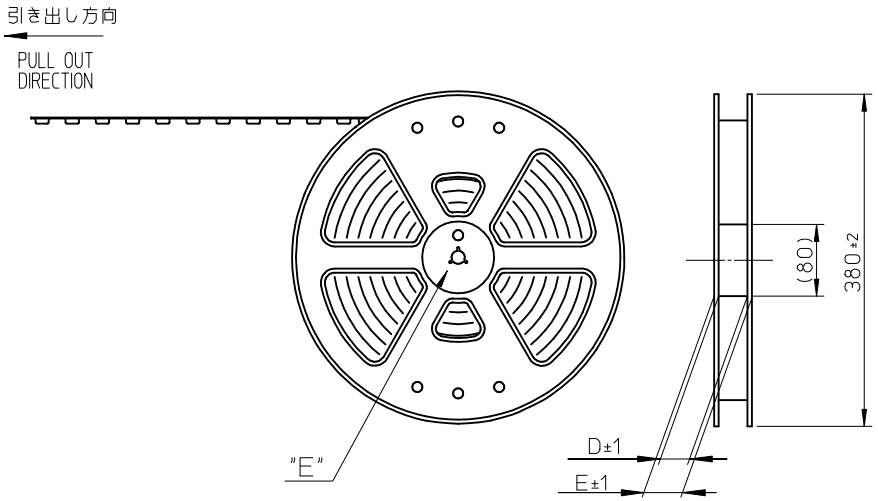
10 UNDER	± ---
10 OVER 30 UNDER	± ---
30 OVER	± ---
ANGULAR	±--- °

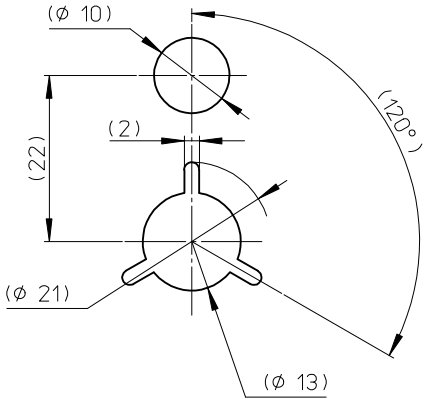
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: YTAKAYASU	DATE: 2007/08/10	TITLE: 0.5 FPC CONN. ZIF E/O 2 CONTACTS TYPE HSG ASS'Y (H=2.5)
CHECKED BY: KTAKAHASHI	DATE: 2007/08/10	
APPROVED BY: HHIRATA	DATE: 2007/08/10	molex MOLEX INCORPORATED
MATERIAL NO.: 502790-**11		DOCUMENT NO.: SD-502790-001
SIZE: A3		SHEET NO.: 2 OF 2

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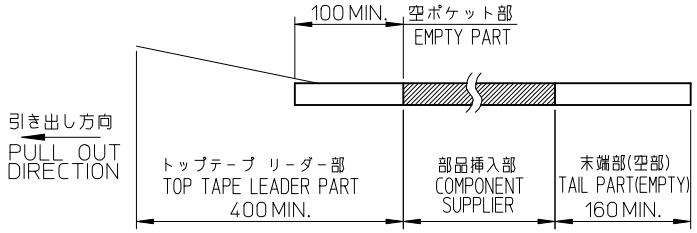




DETAIL "E"

NOTES

1. 梱包数量 : 2000個/リール
   NUMBER OF CONNECTORS : 2000PIECES/REEL
2. リードテープ長さ
   LEAD TAPE LENGTH



3. 製品詳細寸法については図面 SD-502790-001を参照下さい。
   FOR DIMENSIONS OF PRODUCT, REFER TO SD-502790-001.
4. 材料 MATERIAL
   キャリアテープ : ポリスチレン
   CARRIER TAPE : POLYSTYRENE
   トップテープ : ポリエチレンテレフタレート,ポリエチレン
   TOP TAPE : POLYETHYLENE TEREPHTHALATE , POLYETHYLENE
   リール : ポリスチレン<リサイクル材を含む>
   REEL : POLYSTYRENE<RECYCLE MATERIAL CONTAINED>
5. ELV及びRoHS適合品 ELV AND RoHS COMPLIANT

REVISED
EC NO: J2009-2322 2009/04/20
DRWN:MTAKASAKI 2009/04/20
CHKD:MHAYASHI 2009/04/21
APPR:NUKITA
DESCRIPTION
REV B

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: YTAKAYASU DATE: 2007/11/05
CHECKED BY: KTAKAHASHI DATE: 2007/11/05
APPROVED BY: HHIRATA DATE: 2007/11/05

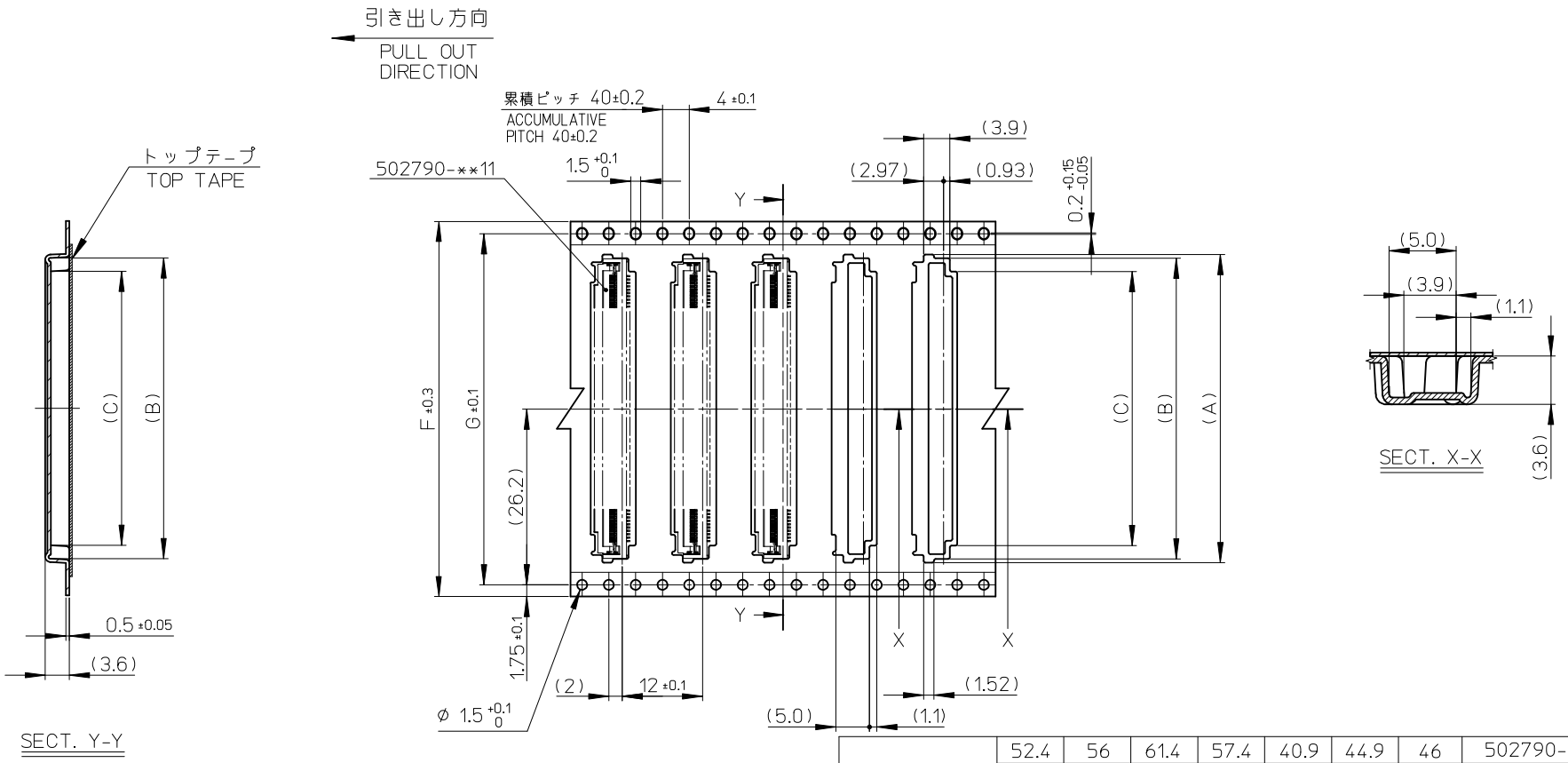
TITLE: 0.5 FPC CONN ZIF E/O 2 CONTACTS TYPE EMBSTP PACKAGE (H=2.5)

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MATERIAL NO.: 502790-**91
DOCUMENT NO.: SD-502790-002
SHEET NO.: 1 OF 2

SIZE A3

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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
56	52.4	56	61.4	57.4	40.9	44.9	46	502790-8091	80
	52.4	56	61.4	57.4	32.9	36.9	38	502790-6491	64
	52.4	56	61.4	57.4	30.9	34.9	36	502790-6091	60
44	40.4	44	49.4	45.4	25.9	29.9	31	502790-5091	50
	40.4	44	49.4	45.4	20.9	24.9	26	502790-4091	40
32	28.4	32	37.4	33.4	15.9	19.9	21	502790-3091	30

SEE SHEET 1 OF 2
EC NO: J2009-2322 2009/04/20
DRWN:MTAKASAKI 2009/04/20
CH'KD:MHAYASHI 2009/04/21
APPR:NUKITA
DESCRIPTION
REV B

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

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MATERIAL NO.: 502790-**91
DOCUMENT NO.: SD-502790-002
SHEET NO.: 2 OF 2
SIZE: A3

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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