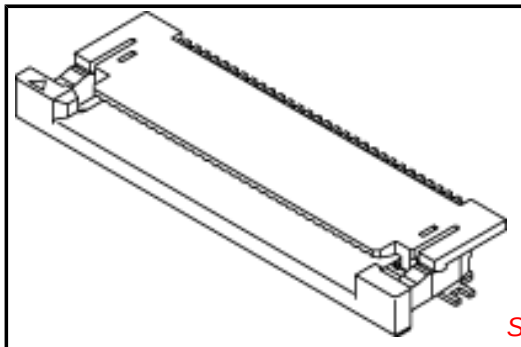
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Part Number: 0541044631
Status: Active
Overview: ffc_fpc_smt
Description: 0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Top Contact Style, 46 Circuits, Lead-free, 0.1µm (4µ") Gold (Au) Plating



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-54104-071 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

UL	E29179

General

Product Family	FFC/FPC Connectors
Series	54104
Overview	ffc_fpc_smt
Product Name	N/A

Physical

Circuits (Loaded)	46
Color - Resin	Natural
Contact Position	Top
Durability (mating cycles max)	20
Entry Angle	90° Angle
Flammability	94V-0
Mated Height (in)	0.079 In
Mated Height (mm)	2.00 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Material - Resin	High Temperature Thermoplastic
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.024 In
PC Tail Length (mm)	0.60 mm
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
Plating min: Mating (µin)	4
Plating min: Mating (µm)	0.1
Plating min: Termination (µin)	2
Plating min: Termination (µm)	0.05
Polarized to PCB	Yes
Stackable	No
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-20°C to +85°C
Termination Interface: Style	Surface Mount
Wire/Cable Type	FFC/FPC

Electrical

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

Material Info

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.

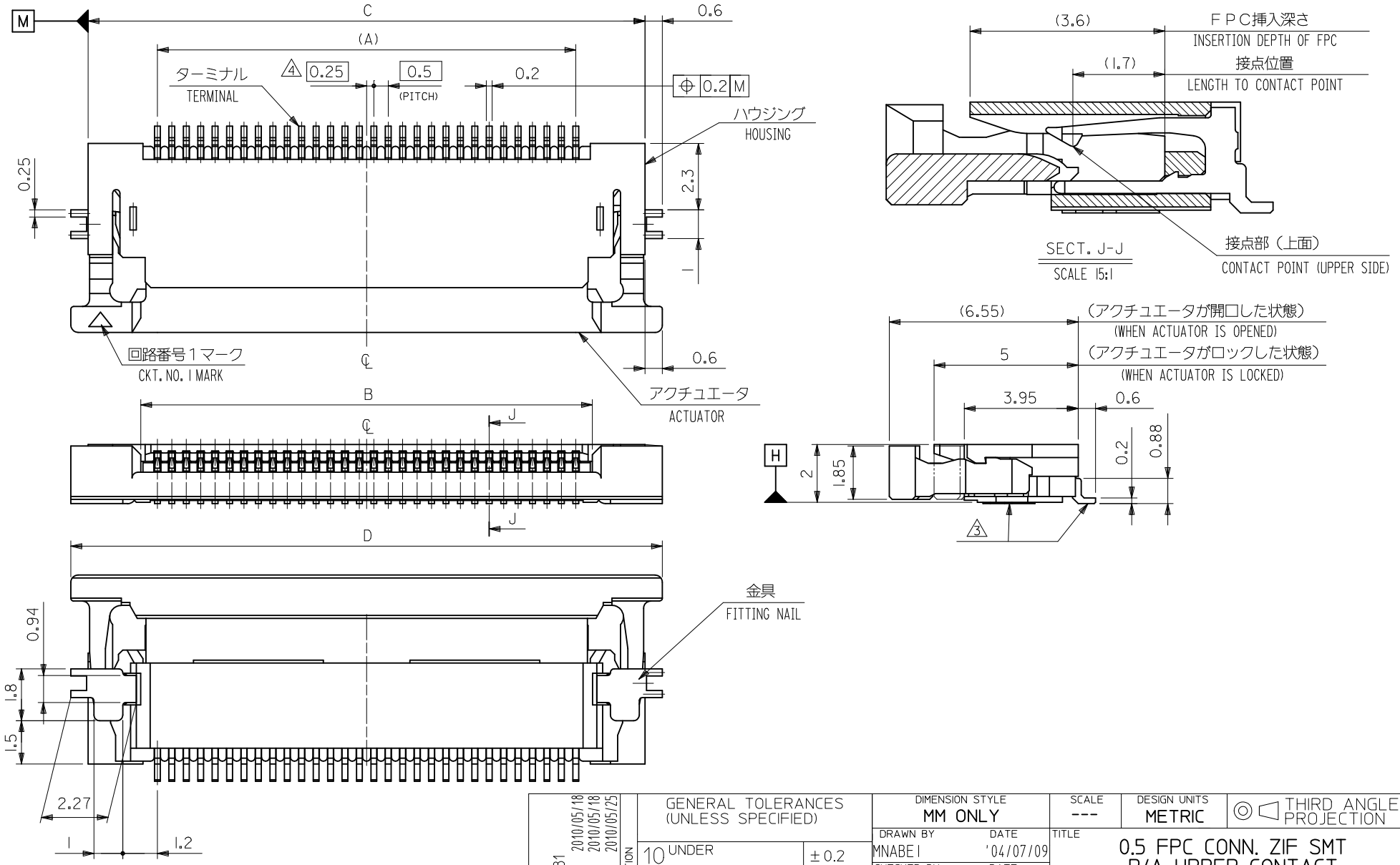
Search Parts in this Series
54104Series

Reference - Drawing Numbers

Packaging Specification	SPK-54104-001
Product Specification	PS-54104-071, RPS-54104-079, RPS-54104-081, RPS-54104-082, RPS-54104-083, RPS-54104-084, RPS-54104-086, RPS-54104-088, RPS-54104-089
Sales Drawing	SD-54104-077, SD-54104-078

This document was generated on 06/07/2010

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REVISED			
EC NO: J2010-2281	DRWN:HYOSHINO	CH'KD:HSHIMOYAMA	APPR:KMORIKAWA
2010/05/18	2010/05/18	2010/05/25	DESCRIPTION
D			REV

GENERAL TOLERANCES (UNLESS SPECIFIED)	
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±3 °

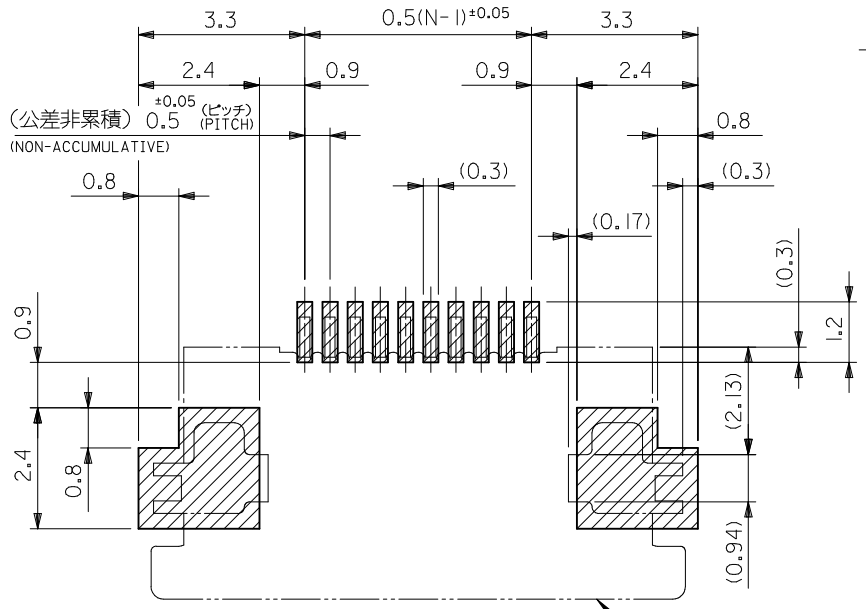
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

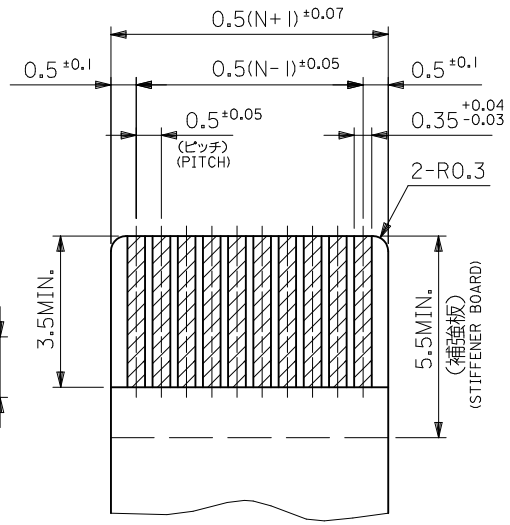
DRAWN BY: MNABEI	DATE: '04/07/09	TITLE: 0.5 FPC CONN. ZIF SMT R/A UPPER CONTACT -LEAD FREE-
CHECKED BY: KTOJO	DATE: '04/07/09	
APPROVED BY: NUKITA	DATE: '04/07/09	molex MOLEX INCORPORATED
MATERIAL NO.: SEE SHEET 2 OF 2		DOCUMENT NO.: SD-54104-077
		SHEET NO.: 1 OF 2

SIZE A3

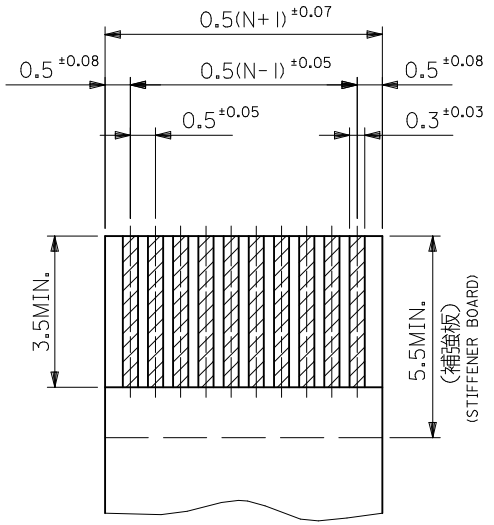
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参照基板レイアウト
RECOMMENDED P.C.BOARD PATTERN DEMENSION(REF.)
(マウント面)
(MOUNTING SIDE)



適合FPC推奨寸法
APPLICABLE FPC RECOMMENDED DIMENSION
(仕上がり厚さ : 0.3 ±0.03)
(THICKNESS : 0.3 ±0.03)



適合FFC推奨寸法
APPLICABLE FFC RECOMMENDED DIMENSION
(仕上がり厚さ : 0.3 ±0.03)
(THICKNESS : 0.3 ±0.03)

金メッキFPC/FFCについて : 打抜き方向は導体側から補強板側を推奨いたします。
RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFNER BOARD SIDE.

30.5	29.3	25.65	24.5	54104-5031	50
28.5	27.3	23.65	22.5	54104-4631	46
28.0	26.8	23.15	22.0	54104-4531	45
27.5	26.3	22.65	21.5	54104-4431	44
27.0	25.8	22.15	21.0	54104-4331	43
25.5	24.3	20.65	19.5	54104-4031	40
24.5	23.3	19.65	18.5	54104-3831	38
23.5	22.3	18.65	17.5	54104-3631	36
23.0	21.8	18.15	17.0	54104-3531	35
22.5	21.3	17.65	16.5	54104-3431	34
22.0	20.8	17.15	16.0	54104-3331	33
21.5	20.3	16.65	15.5	54104-3231	32
20.5	19.3	15.65	14.5	54104-3031	30
D	C	B	A	EMBOSSED PACKAGE オーダー番号:ORDER NO.	CKT.

CONNECTOR SERIES NO. : 54104-**29

注記 NOTES

1. 使用材料 MATERIAL

ハウジング HOUSING	:	46ナイロン UL94V-0 46NYLON
アクチュエータ ACTUATOR	:	PPS UL94V-0
ターミナル TERMINAL	:	リン青銅(t=0.2) ニッケル下地 : 1.0μm MIN. 金メッキ : 0.1μm MIN. PHOSPHOR BRONZE GOLD 0.1μm MIN. OVER NICKEL 1.0μm MIN. PLATING
金具 FITTING NAIL	:	リン青銅、スズめっき(t=0.2) PHOS-BRO, TIN-PLATED

2. エンボステープ梱包時は、アクチュエータがロックした状態とする。
IN THE PACKAGE, ACTUATOR OF PART NO.54104-**29 SHOULD BE LOCKED.

3. ソルダーテール半田付け面のズレ量、および金具半田付け面のズレ量は、基準面 H に対し上方向 0.1MAX. 下方向 0.15MAX. とし、相互のバラつき量は 0.1MAX. とする。
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM H
UPPER DIRECTION : 0.1MAX., LOWER DIRECTION : 0.15MAX.
OFFSET BETWEEN UPPER AND LOWER 0.1MAX.

4. 偶数極に適用。
APPLY FOR EVEN CURCUIT.

5. パターンは(離止め用金具
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.

6. 本製品は54104-**39のターミナル部分金メッキ品である。

7. ELV AND RoHS適合品
ELV AND RoHS COMPLIANT

REVISED			
EC NO: J2010-2281	DRWN:HYOSHINO	CH'KD:HSHIMOYAMA	APPR:KMORIKAWA
2010/05/18	2010/05/18	2010/05/25	
D	DESCRIPTION		
REV			

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY	SCALE	---
DESIGN UNITS	METRIC	THIRD ANGLE PROJECTION	
DRAWN BY	MNABEI	DATE	'04/07/09
CHECKED BY	KTOJO	DATE	'04/07/09
APPROVED BY	NUKITA	DATE	'04/07/09
MATERIAL NO.	SEE TABLE		

TITLE: 0.5 FPC CONN. ZIF SMT R/A UPPER CONTACT -LEAD FREE-

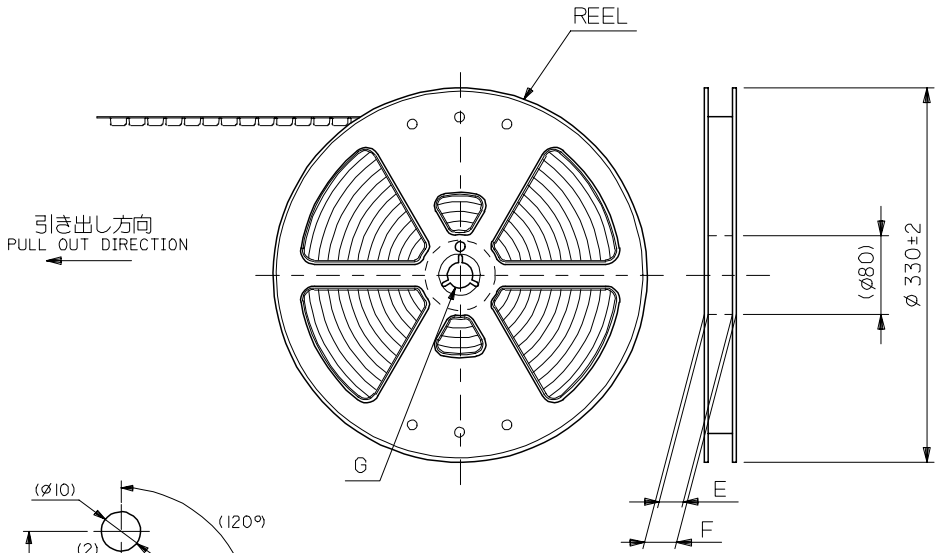
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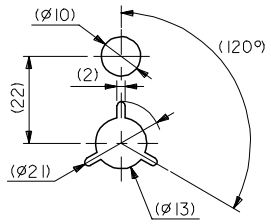
DOCUMENT NO. SD-54104-077

SHEET NO. 2 OF 2

SIZE A3

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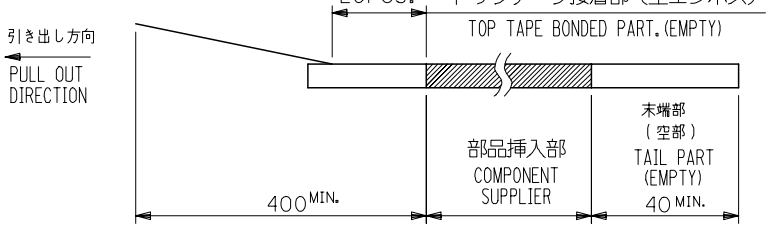




DETAIL G

NOTES

1. 梱包数量：１５００個／リール
   NUMBER OF CONNECTORS : 1500PCS/REEL
2. リードテープ長さ LEAD TAPE LENGTH



3. 材料(MATERIAL)
   キャリアテープ(CARRIER TAPE)：ポリプロピレン(POLYPROPYLENE)
   トップテープ(TOPTAPE)：PET , PE , PEF
   リール(REEL)：ポリスチレン (POLYSTYLENE)

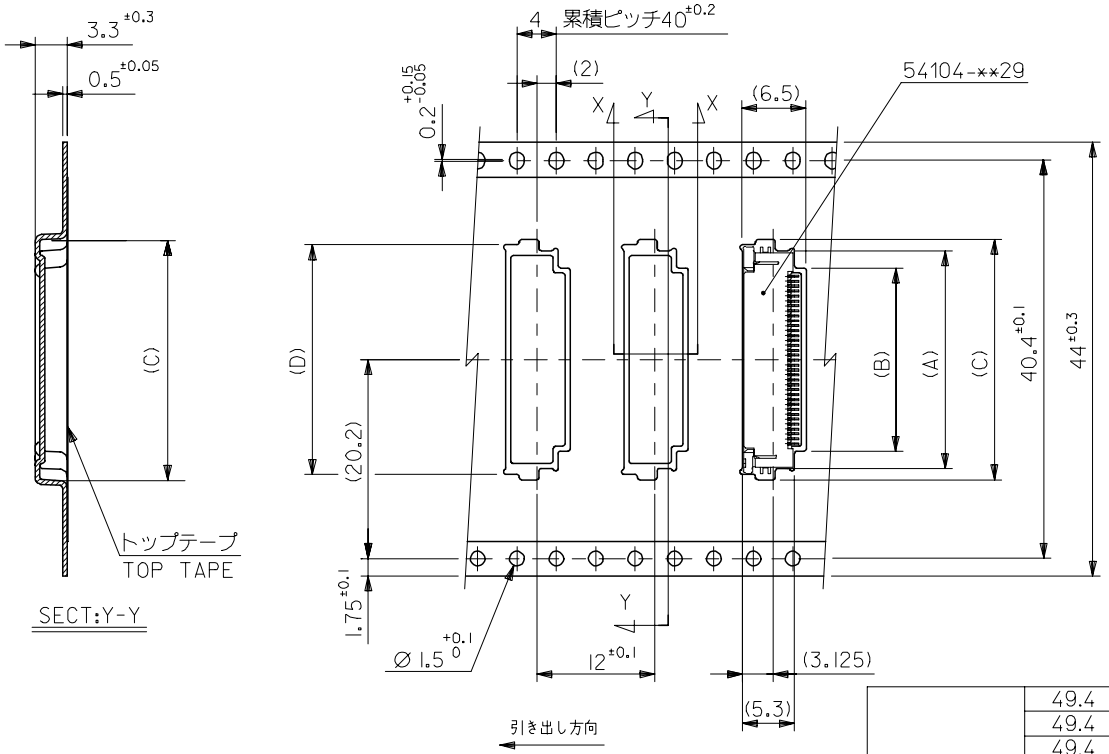
4. 本製品は 54104-**96 のターミナル部分金メッキ品である。

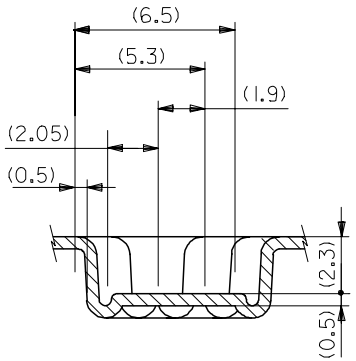
REVISED				REV	DESCRIPTION
EC NO: J2007-2009	DRWN:TYAMADA01	2007/01/23			
	CHKD:KTOYODA	2007/01/25			
	APPR:NUKITA	2007/01/25			
B					

GENERAL TOLERANCES (UNLESS SPECIFIED)	
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR ±3 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY	SCALE: 2:1	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: MNABE I — DATE: '04/07/09	TITLE: EMBOSSED TAPE PACKAGE FOR 54104-**29 -LEAD FREE-		
CHECKED BY: KTOJO — DATE: '04/07/09			
APPROVED BY: NUKITA — DATE: '04/07/09	molex MOLEX INCORPORATED		
MATERIAL NO.: SEE CHART	DOCUMENT NO.: SD-54104-078	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		





44	49.4	45.4	30.8	31.9	26.1	29.6	54104-5031	50
	49.4	45.4	28.8	29.9	24.1	27.6	54104-4631	46
	49.4	45.4	28.3	29.4	23.6	27.1	54104-4531	45
	49.4	45.4	27.8	28.9	23.1	26.6	54104-4431	44
	49.4	45.4	27.3	28.4	22.6	26.1	54104-4331	43
	49.4	45.4	25.8	26.9	21.1	24.6	54104-4031	40
	49.4	45.4	24.8	25.9	20.1	23.6	54104-3831	38
	49.4	45.4	23.8	24.9	19.1	22.6	54104-3631	36
	49.4	45.4	23.3	24.4	18.6	22.1	54104-3531	35
	49.4	45.4	22.8	23.9	18.1	21.6	54104-3431	34
	49.4	45.4	22.3	23.4	17.6	21.1	54104-3331	33
	49.4	45.4	21.8	22.9	17.1	20.6	54104-3231	32
	49.4	45.4	20.8	21.9	16.1	19.6	54104-3031	30
キャリアテープ幅 CARRIER TAPE WIDTH	F	E	D	C	B	A	MATERIAL NO.	CKT.

REVISED
EC NO: J2007-2009 2007/01/23
DRWN:TYAMADA01 2007/01/25
CHKD:KTOYODA
APPR:NUKITA
DESCRIPTION
REV B

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR ±3 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: MNABE I DATE: '04/07/09
CHECKED BY: KTOJO DATE: '04/07/09
APPROVED BY: NUKITA DATE: '04/07/09

TITLE: EMBOSSED TAPE PACKAGE FOR 54104-**29 -LEAD FREE-

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-54104-078
SHEET NO.: 2 OF 2

SIZE A3

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