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Part Number:

0541043531

Status:

Active

Overview:

ffc_fpc_smt

Description:

0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Top Contact Style, 35 Circuits, Lead-free, 0.1µm (4µ") Gold (Au) Plating

Documents:	
3D Model	Product Specification PS-54104-071 (PDF)
Drawing (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)	35
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 - 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
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	
Reference - Drawing Numbers	
Packaging Specification	SPK-54104-001
Product Specification	PS-54104-071, RPS-54104-077, RPS-54104-079, RPS-54104-081, RPS-54104-082, RPS-54104-083,

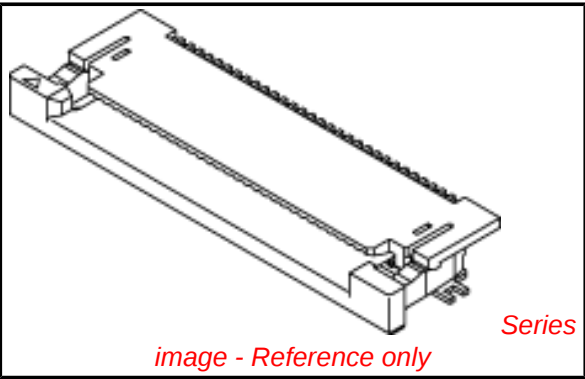


image - Reference only

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](#)

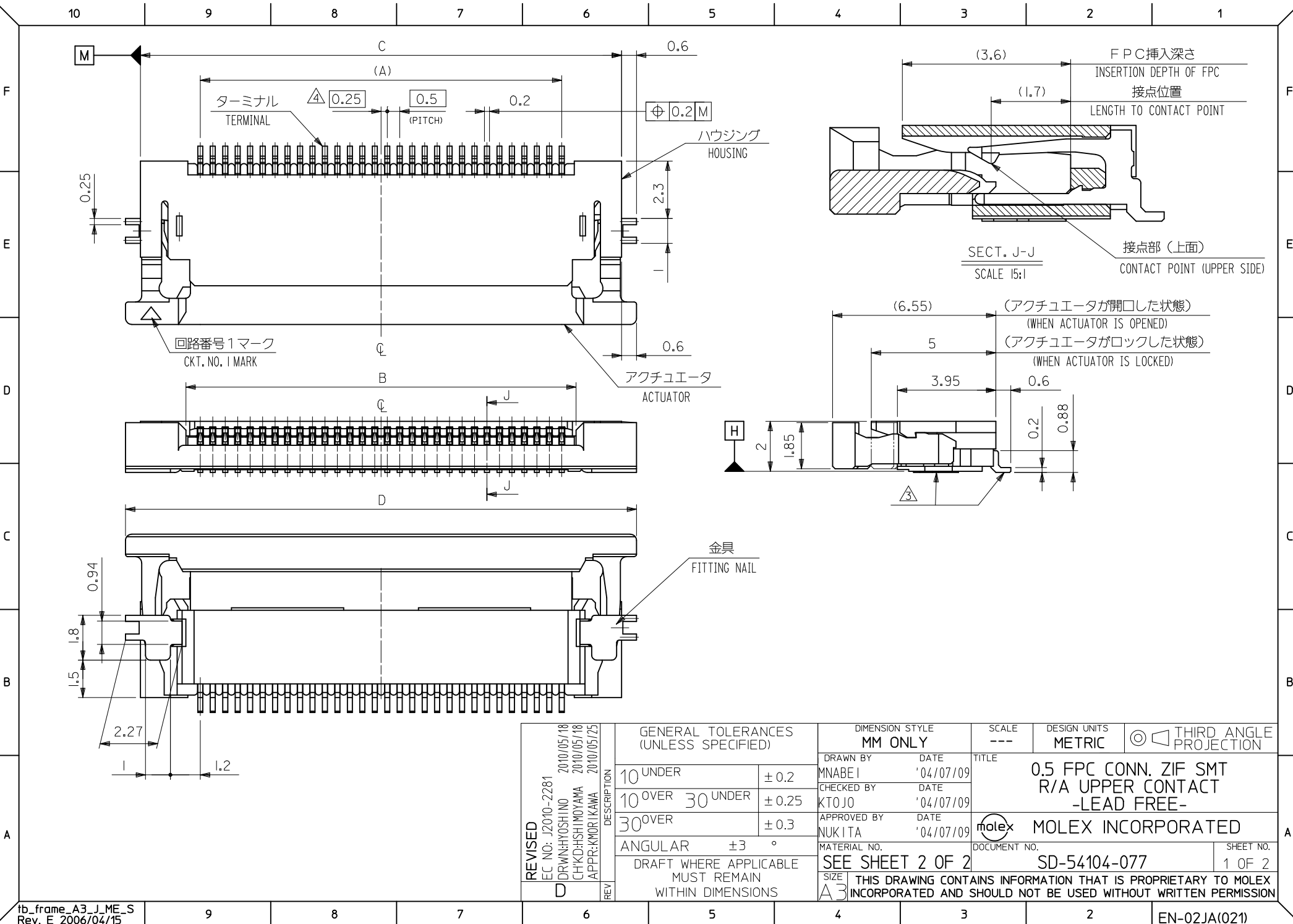
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

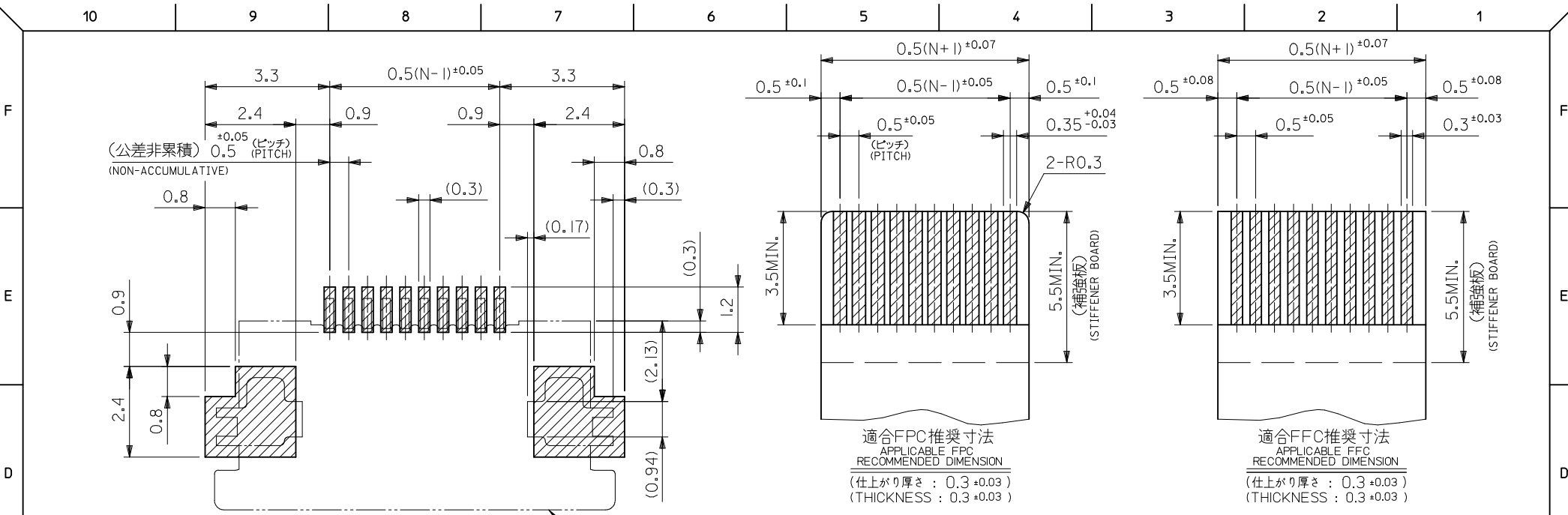
54104Series

This document was generated on 06/07/2010

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REVISED EC NO: J2010-2281 D DRWN:HYOSHINO 2010/05/18 CHKD:SHIMOMIYAMA 2010/05/18 APPR:KMORI KAWA 2010/05/25	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
				MM ONLY		---	METRIC				
		10 UNDER	± 0.2	DRAWN BY MNABEI	DATE '04/07/09	TITLE 0.5 FPC CONN. ZIF SMT R/A UPPER CONTACT -LEAD FREE-					
		10 OVER 30 UNDER	± 0.25	CHECKED BY KTOJO	DATE '04/07/09						
		30 OVER	± 0.3	APPROVED BY NUKITA	DATE '04/07/09	MOLEX INCORPORATED					
	ANGULAR	± 3 °	MATERIAL NO.	DOCUMENT NO.	SHEET NO.						
REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 2 OF 2		SD-54104-077			1 OF 2		
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



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.

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

コネクタ位置
CONNECTOR POSITION

注記 NOTES

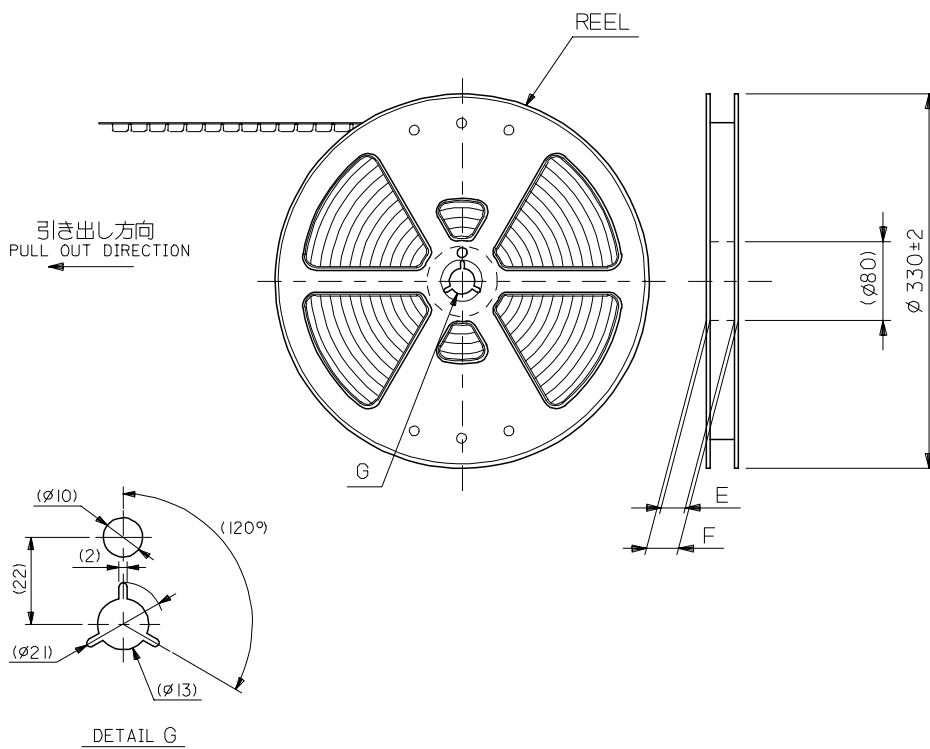
1. 使用材料 MATERIAL
- ハウジング : 46ナイロン UL94V-0
HOUSING 46NYLON
アクチュエータ : PPS UL94V-0
ACTUATOR
ターミナル : リン青銅(t=0.2)
TERMINAL ニッケル下地 : 1.0μm MIN.
金メッキ : 0.1μm MIN.
PHOSPHOR BRONZE
GOLD 0.1μm MIN.
OVER NICKEL 1.0μm MIN.
PLATING
- 金具 : リン青銅、スズめっき(t=0.2)
FITTING NAIL PHOS-BRO, TIN-PLATED

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.
- △ ソルダータ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 UPPER DIRECTION : 0.1MAX., LOWER DIRECTION : 0.15MAX. OFFSET BETWEEN UPPER AND LOWER 0.1MAX.
- △ 偶数極に適用。
APPLY FOR EVEN CIRCUIT.
- △ バッテンはく離止め用金具
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

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.

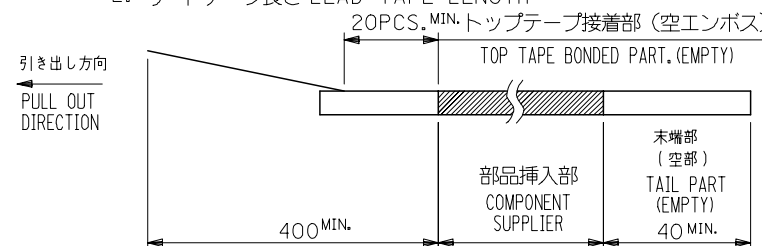
CONNECTOR SERIES NO. : 54104-**-29

REVISED EC NO: J2010-2281 DRAWN:HYOSHINO 2010/05/18 CHKD:HSHIROYAMA 2010/05/18 APPR:KMORI KAWA 2010/05/25 REV D	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
				MM ONLY		---	METRIC			
				DRAWN BY		DATE	TITLE			
				MNABEI		'04/07/09				
				CHECKED BY		DATE				
	10 UNDER		±0.2	KTOJO		'04/07/09	0.5 FPC CONN. ZIF SMT R/A UPPER CONTACT -LEAD FREE-			
	10 OVER 30 UNDER		±0.25	APPROVED BY		DATE				
	30 OVER		±0.3	NUKITA		'04/07/09	MOLEX INCORPORATED			
	ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-54104-077		2 OF 2			
REV			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



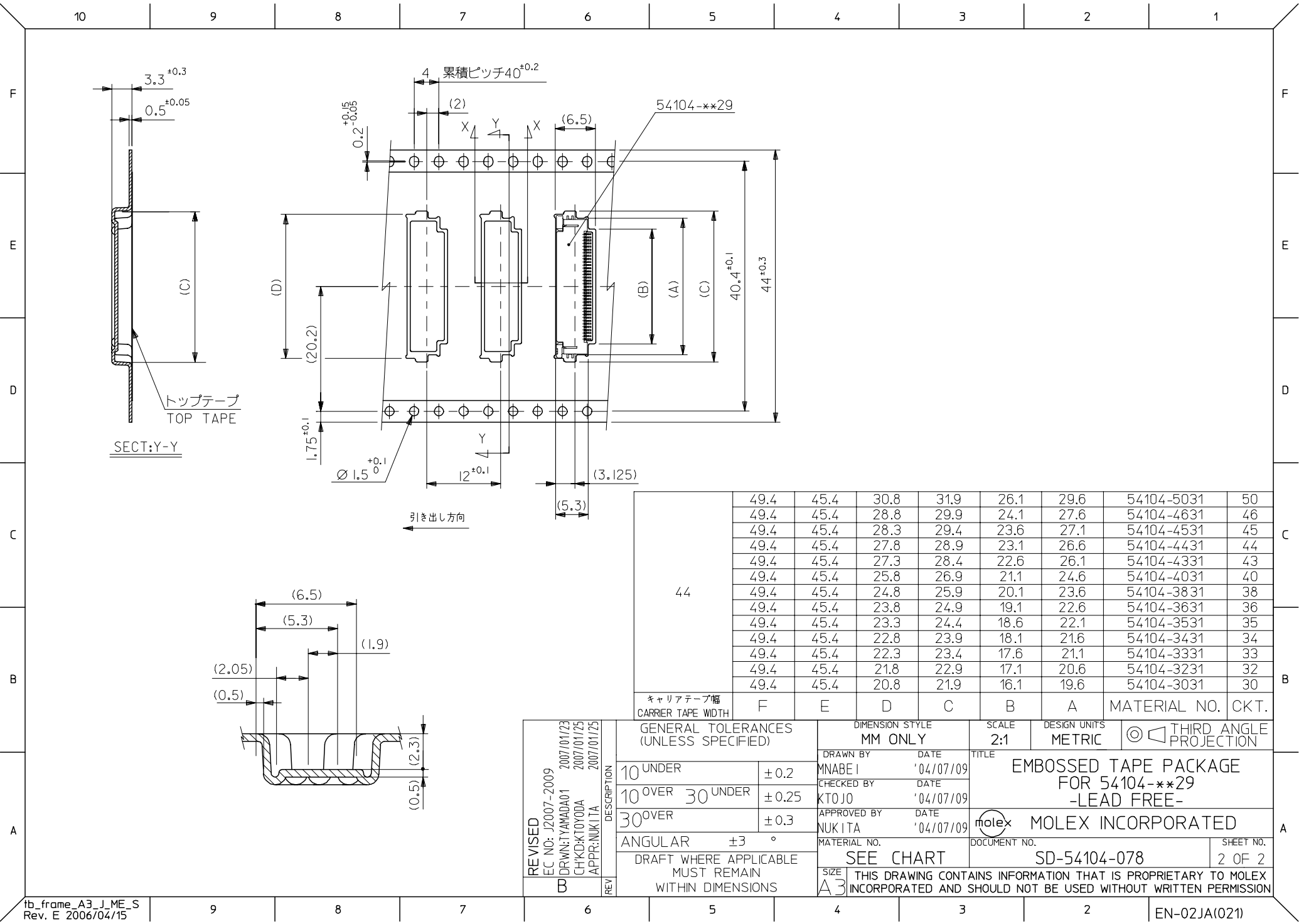
NOTES

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	EC NO: J2007-2009 DRAWN:TYAMADA01 CHKD:KATOYODA APPR:NUKITA	2007/01/23 2007/01/25 2007/01/25	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
				10 UNDER	± 0.2	DRAWN BY MNABEI	DATE '04/07/09	TITLE EMBOSSD TAPE PACKAGE FOR 54104-**-29 -LEAD FREE-		
				10 OVER 30 UNDER	± 0.25	CHECKED BY KTOJO	DATE '04/07/09			
				30 OVER	± 0.3	APPROVED BY NUKITA	DATE '04/07/09			
				ANGULAR ±3 °	MATERIAL NO.	DOCUMENT NO.	SHEET NO. 1 OF 2			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART			SD-54104-078	
REV	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
キャリアテープ幅 CARRIER TAPE WIDTH	49.4	45.4	20.8	21.9	16.1	19.6	54104-3031	30
	F	E	D	C	B	A	MATERIAL NO.	CKT.

REVISED EC NO: J2007-2009 DRWN:TYAMADA01 CHKD:KTOYODA APPR:NUKITA B	2007/01/23 2007/01/25 2007/01/25	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			10 UNDER	±0.2	DRAWN BY MNABEI	DATE '04/07/09	TITLE EMBOSSD TAPE PACKAGE FOR 54104-**-29 -LEAD FREE-				
			10 OVER 30 UNDER	±0.25	CHECKED BY KTOJO	DATE '04/07/09					
			30 OVER	±0.3	APPROVED BY NUKITA	DATE '04/07/09	MOLEX INCORPORATED				
			ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-54104-078		2 OF 2		
			REV		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						