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Part Number:

0512811094

Status:

Active

Overview:

Description:

0.50mm (.020") Pitch FFC/FPC Connector, SMT, Right Angle, Non-ZIF, Dual Contact Style, 1.20mm (.047") Mated Height, 10 Circuits, Lead-free, Gold (Au) Plating

General

Product Family	FFC/FPC Connectors
Series	51281
Overview	ffc_fpc_smt
Product Name	N/A
Physical	
Circuits (Loaded)	10
Color - Resin	Natural
Contact Position	Dual
Durability (mating cycles max)	20
Entry Angle	90° Angle
Mated Height (in)	0.047 In
Mated Height (mm)	1.20 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.020 In
PC Tail Length (mm)	0.50 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)	40
Plating min: Termination (µm)	1
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-51281-001
Product Specification	PS-51281-003, RPS-51281-016, RPS-51281-017, RPS-51281-018, RPS-51281-019
Sales Drawing	SD-51281-011, SD-51281-012

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](#)

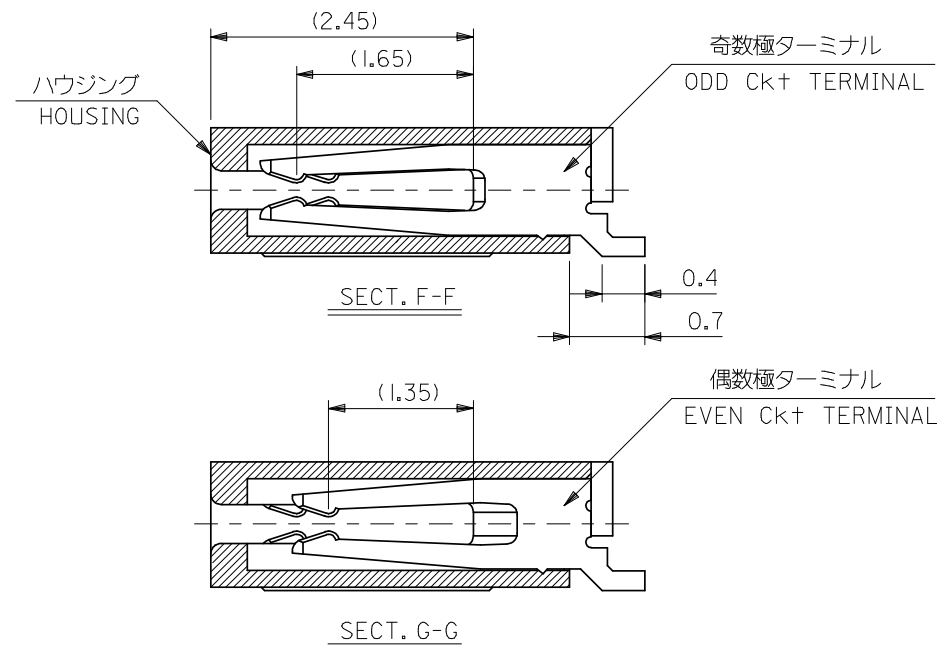
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

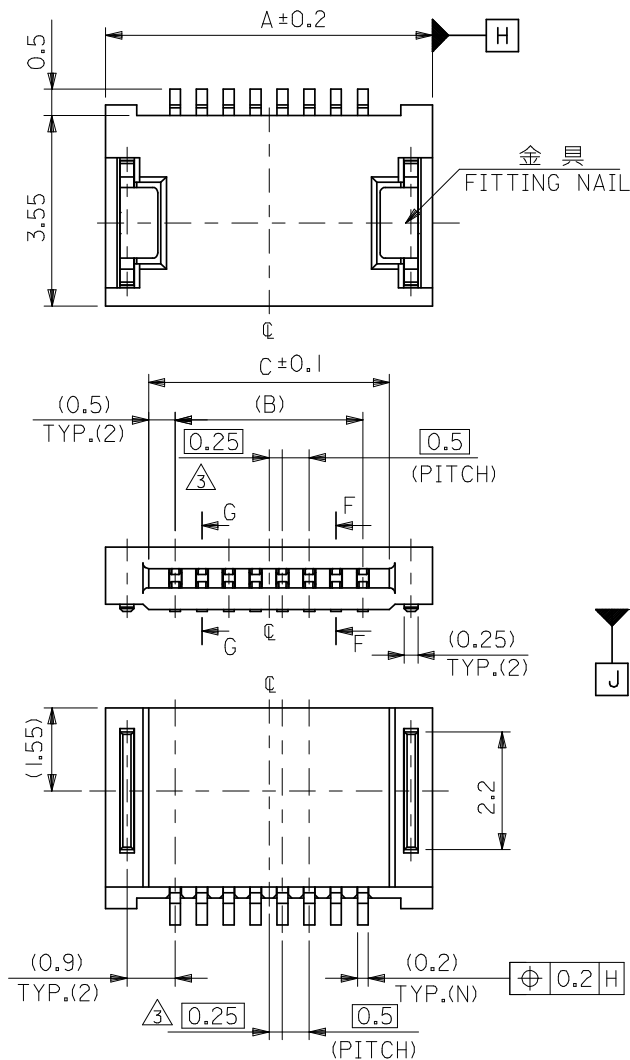
51281Series

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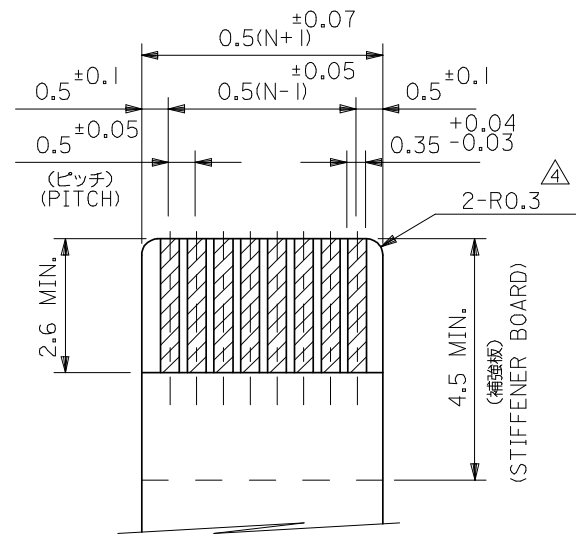
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13.5	12.5	15.1	51281-2694	51281-2640	26
12.5	11.5	14.1	51281-2494	51281-2440	24
11.5	10.5	13.1	51281-2294	51281-2240	22
10.5	9.5	12.1	51281-2094	51281-2040	20
9.5	8.5	11.1	51281-1894	51281-1840	18
8.5	7.5	10.1	51281-1694	51281-1640	16
7.5	6.5	9.1	51281-1494	51281-1440	14
6.5	5.5	8.1	51281-1294	51281-1240	12
5.5	4.5	7.1	51281-1094	51281-1040	10
5.0	4.0	6.6	51281-0994	51281-0940	9
4.5	3.5	6.1	51281-0894	51281-0840	8
3.5	2.5	5.1	51281-0694	51281-0640	6
3.0	2.0	4.6	51281-0594	51281-0540	5
C	B	A	EMBOSSED TAPE ORDER No. オーダー番号	MATERIAL NO.	CIRCUIT

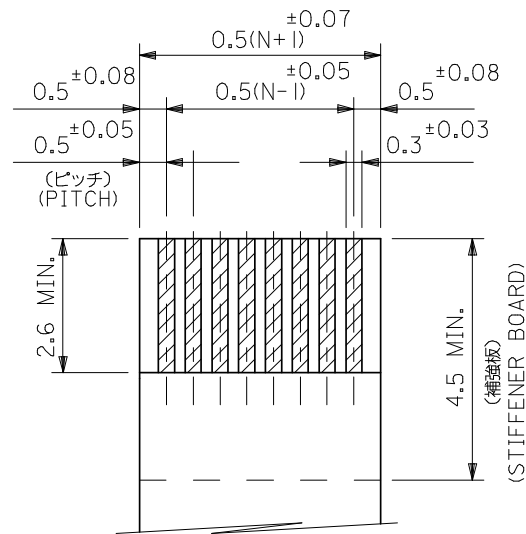


REVISED EC NO: J2008-4308 2008/06/27 DRWN:WABEI 2008/06/30 CHKD:THARUYAMA APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
		10 UNDER	±0.2	DRAWN BY KENSUZUKI	DATE 2004/10/19	TITLE 0.5 FPC CONN NON-ZIF HSG ASSY (HGT=1.2MM) -LEAD FREE-	 MOLEX INCORPORATED	
		10 OVER 30 UNDER	±0.25	CHECKED BY NUKITA	DATE 2004/10/19			
		30 OVER	±0.3	APPROVED BY NUKITA	DATE 2004/10/19			
		ANGULAR ±3 °		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-51281-011		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
	REV							



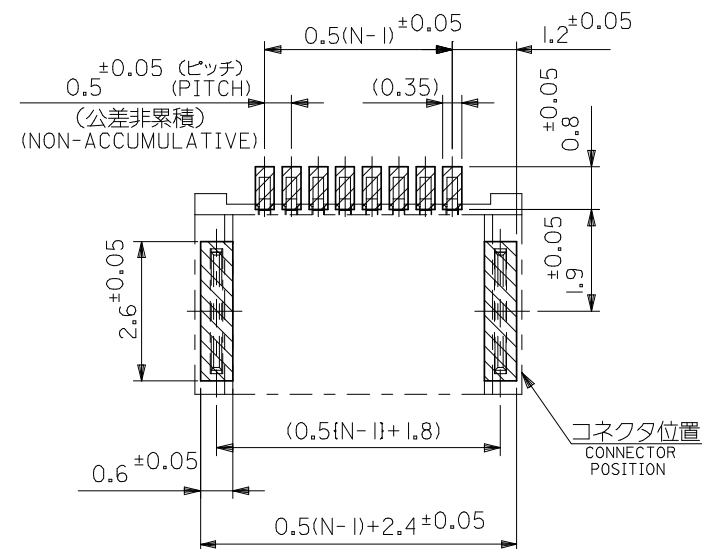
適合FPC推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION

(仕上がり厚さ: 0.3 ± 0.03)
(THICKNESS: 0.3 ± 0.03)



適用 F F C 推奨寸法
APPLICABLE FFC
RECOMMENDED DIMENSION

(仕上がり厚さ : 0.3 ± 0.03)
(THICKNESS: 0.3 ± 0.03)



参考基板レイアウト図
RECOMMENDED P.C.BOARD LAYOUT
(マウント面)
(MOUNTING SIDE)

注記 NOTES

1. 使用材料 MATERIAL

ハウジング : 液晶ポリマー ガラス充填 UL94V-0
HOUSING : LIQUID CRYSTAL POLYMER (GLASS FILLED) UL94V-0
ターミナル : リン青銅 (t=0.2mm), ニッケル下地
コンタクト部: 金メッキ
テール部: 銀メッキ

TERMINAL : PHOSPHOR-BRONZE , CONTACT : GOLD
TAIL : TIN
OVER NICKEL PLATING

金具 : リン青銅 (t=0.25)、ニッケル下地 純錫メッキ
FITTING NAIL : PHOSPHOR-BRONZE , PURE-TIN OVER NICKEL PLATING.

△ ソルダータール半田付け面のズレ量、及び金具半田付け面のズレ量は、基準面 [J] に対し、
 上方向 0.1 MAXIMUM、下方向 0.15 MAXIMUM とする。
 又、相互のバツキ量は 0.1 MAXIMUM とする。
 MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM [J]
 UPPER DIRECTION : 0.1 MAXIMUM , LOWER DIRECTION : 0.15 MAXIMUM.
 OFFSET BETWEEN SOLDER TAILS AND FITTING NAILS : 0.1 MAXIMUM.

△ 偶数極に適用。

TO BE APPLIED ONLY WHEN ALL CIRCUIT ARE EVEN.

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

5. 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。

導体部については軟銅箔 35 μm または 50 μm

メッキ厚 0.1 μm 金メッキ (電気メッキ)

を推奨いたします。

RECOMMENDED PUNCHER DIRECTION :

FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.

RECOMMENDED CONDUCTOR SPEC :

THICKNESS OF SOFT COPPER FOIL : 35 μm or 50 μm

GOLD PLATING : 0.1 μm (ELECTRICAL PLATING)

6. 本製品は51281-**20の鉛フリー品である。

THIS PRODUCT IS LEAD FREE OF 51281-**-20.

7. ソルダータールの平坦度は、0.1 MAXIMUM とする。

SOLDER TAIL COPLANARITY IS 0.1 MAXIMUM.

REVISED	EC NO.: J2008-4308	2008/06/27	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	51281--**40	MODEL NO.
	DRAWN:MMABE1	2008/06/30		10 UNDER	± 0.2	DRAWN BY KENSUZUKI	DATE 2004/10/19	TITLE 0.5 FPC CONN NON-ZIF HSG ASSY (HGT=1.2MM) -LEAD FREE-					
	CHK'D:THIRUYAMA	2008/06/30		10 OVER 30 UNDER	± 0.25	CHECKED BY NUKITA	DATE 2004/10/19						
	APPR:NUKITA	2008/06/30		30 OVER	± 0.3	APPROVED BY NUKITA	DATE 2004/10/19	 MOLEX INCORPORATED					
				ANGULAR ±3 °	MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE SHEET 1		SD-51281-011		2 OF 2				
G	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												

10 9 8 7 6 5 4 3 2 1

F

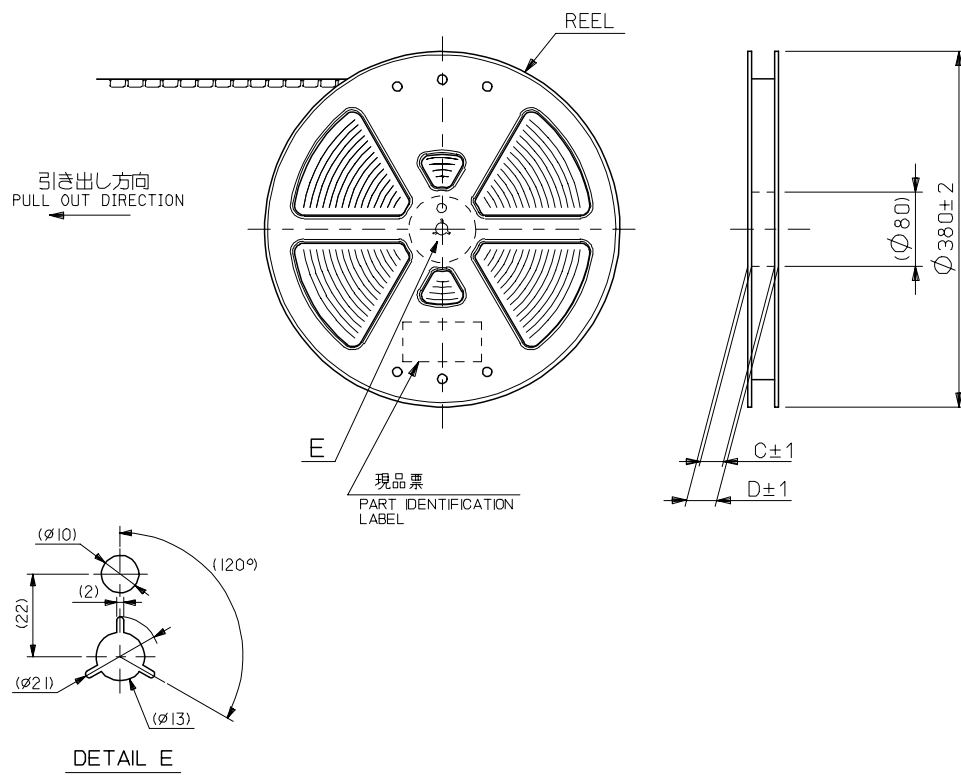
E

D

C

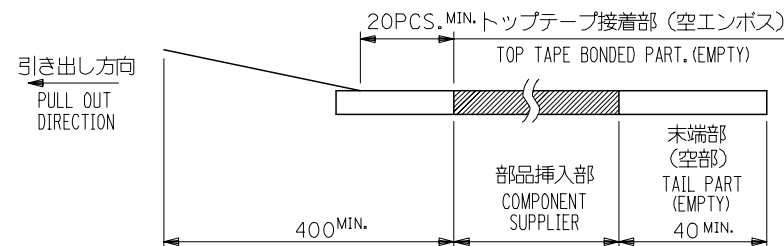
B

A

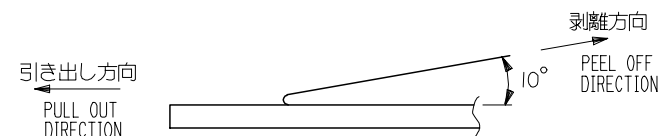


NOTES

- 製品詳細寸法については図面 SD-51281-011 を参照下さい。
RE DETAILED DIMENSION, SEE SD-51281-011
- 梱包数量：3000個/リール
NUMBER OF CONNECTORS：3000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH

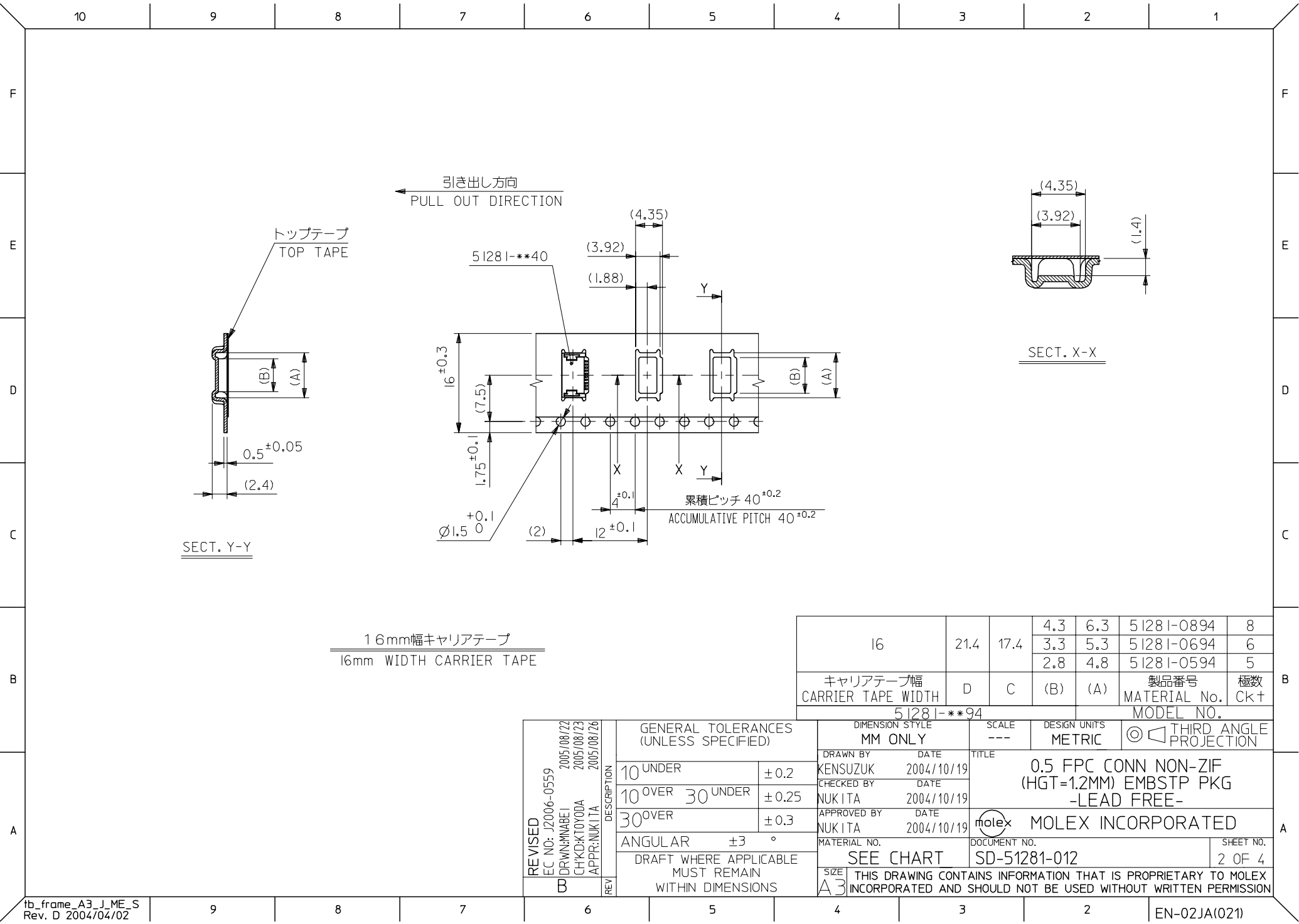


- トップテープの剥離強度：0.1N~1.3N {10gf~130gf}
(剥離方向は下図参照)
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)
PEELING OFF FORCE OF TOP TAPE：0.1N~1.3N {10gf~130gf}
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTATION.



- 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 (PS) <リサイクル材含む>
POLYSTYREN (PS) <RECYCLE MATERIAL CONTAINED>
- C, D 寸法は SHEET 2 ~ 3 を参照下さい。
SEE SHEET 2 ~ 3 (DIMENSION C, D).

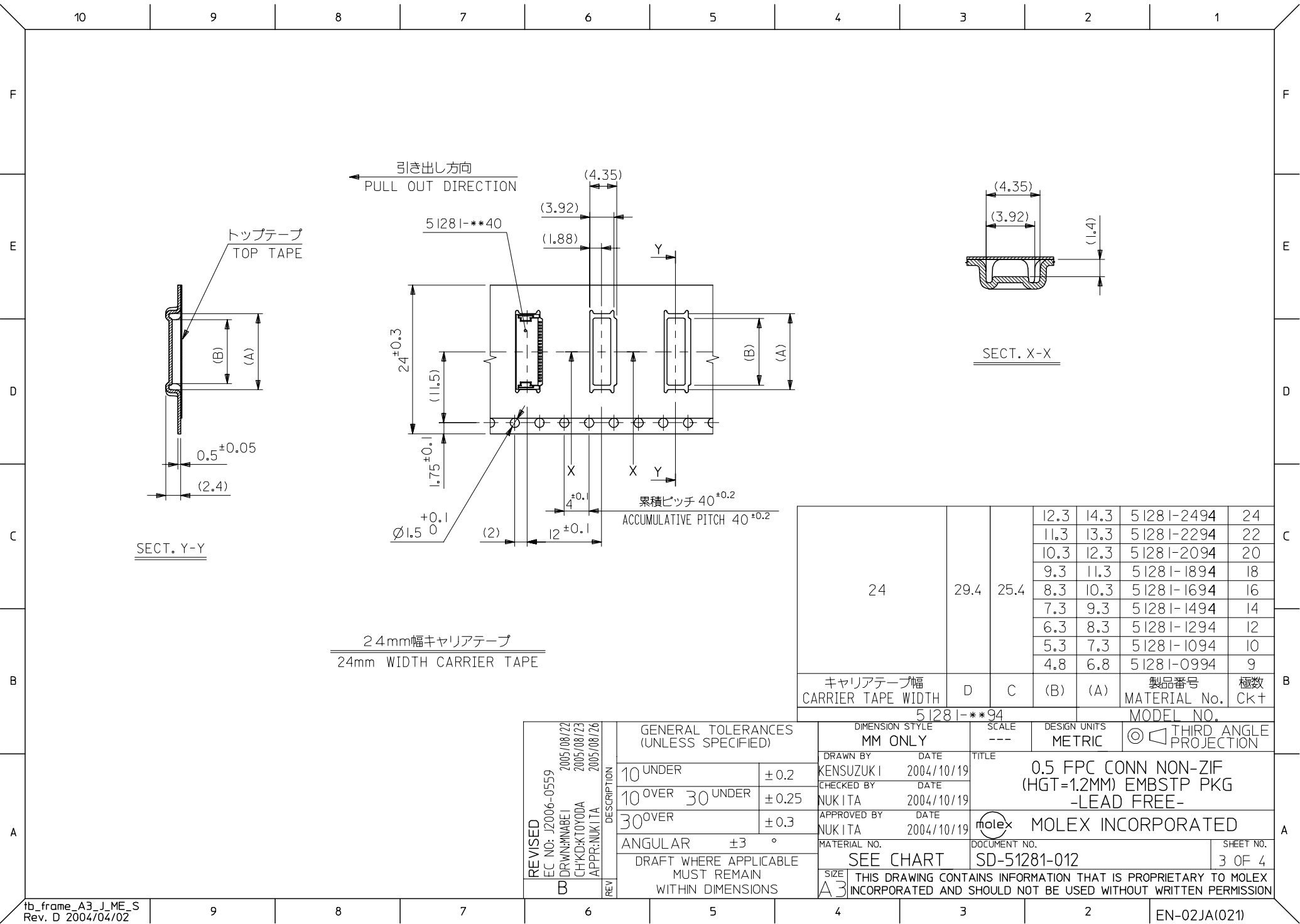
REVISED EC NO: J2006-0559 DRWN: NABE1 2005/08/22 CHKD: TOYODA 2005/08/23 APPR: NUKITA 2005/08/26	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
		10 UNDER	± 0.2	DRAWN BY KENSUZUKI	DATE 2004/10/19	TITLE 0.5 FPC CONN NON-ZIF (HGT=1.2MM) EMBSTP PKG -LEAD FREE-	 MOLEX INCORPORATED	SHEET NO. 1 OF 4
		10 OVER 30 UNDER	± 0.25	CHECKED BY NUKITA	DATE 2004/10/19			
		30 OVER	± 0.3	APPROVED BY NUKITA	DATE 2004/10/19			
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-51281-012			
B	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

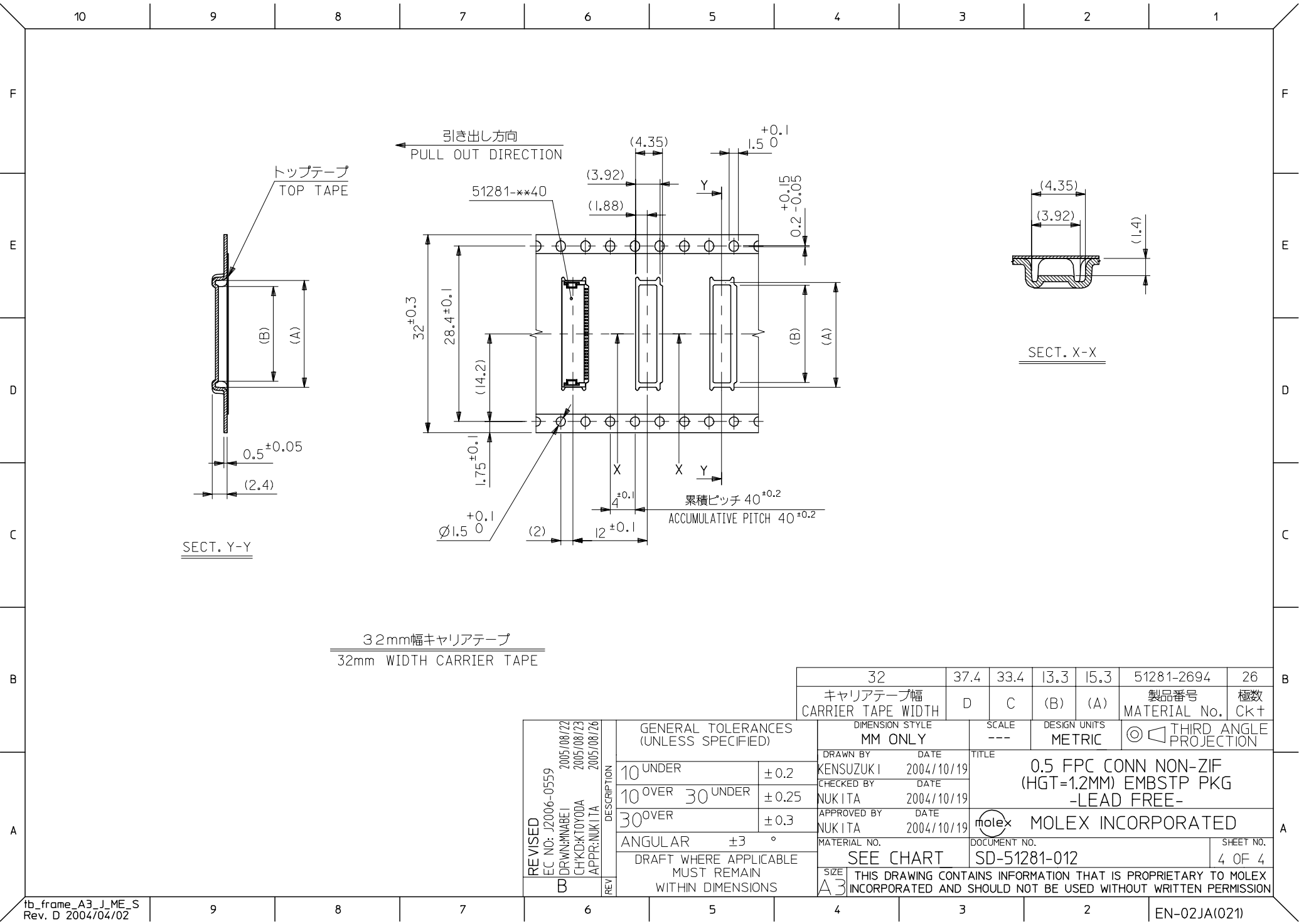


16mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

16	21.4	17.4	4.3	6.3	51281-0894	8
			3.3	5.3	51281-0694	6
			2.8	4.8	51281-0594	5
キャリアテープ幅 CARRIER TAPE WIDTH	D	C	(B)	(A)	製品番号 MATERIAL No.	極数 CK+
51281-***94				MODEL NO.		

REVISED EC NO: J2006-0559 DRWN: MWABEI CHKD: KTOYODA APPR: NUKITA	DESCRIPTION 2005/08/22 2005/08/23 2005/08/26	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY KENSUZUK	DATE 2004/10/19	TITLE 0.5 FPC CONN NON-ZIF (HGT=1.2MM) EMBSTP PKG -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	CHECKED BY NUKITA	DATE 2004/10/19					
		30 OVER	± 0.3	APPROVED BY NUKITA	DATE 2004/10/19	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-51281-012		2 OF 4		
	REV		SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							





SECT. Y-Y

SECT. X-X

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

32		37.4	33.4	13.3	15.3	51281-2694	26
キャリアテープ幅 CARRIER TAPE WIDTH		D	C	(B)	(A)	製品番号 MATERIAL No.	極数 Ck+
DIMENSION STYLE MM ONLY		SCALE ---		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
DRAWN BY KENSUZUKI		DATE 2004/10/19		TITLE 0.5 FPC CONN NON-ZIF (HGT=1.2MM) EMBSTP PKG -LEAD FREE-			
CHECKED BY NUKITA		DATE 2004/10/19					
APPROVED BY NUKITA		DATE 2004/10/19		MOLEX INCORPORATED			
MATERIAL NO.		DOCUMENT NO.					SHEET NO.
SEE CHART		SD-51281-012					4 OF 4
SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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<http://moschip.ru/get-element>

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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.

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

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