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Part Number:

5019514010

Status:

Active

Description:

0.50mm (.020") Pitch Easy-On™ FFC/FPC Connector, Vertical, SMT, Gold Plating, 40 Circuits

Documents:

3D Model

Drawing (PDF)

Product Specification PS-501951-002 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

MolexKits

Product Name

FFC/FPC Connectors

501951

Yes

Easy-On™

Physical

Circuits (Loaded)

Circuits (maximum)

Color - Resin

Contact Position

Durability (mating cycles max)

Entry Angle

Mated Height (in)

Mated Height (mm)

Material - Metal

Material - Plating Mating

Material - Plating Termination

Number of Rows

Orientation

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Polarized to PCB

Stackable

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

Wire/Cable Type

40

40

Brown, Natural

N/A

20

Vertical

0.159 In

4.05 mm

Phosphor Bronze

Gold

Gold

1

Vertical

No

Yes

Embossed Tape on Reel

0.020 In

0.50 mm

0.020 In

0.50 mm

No

No

Yes

-25°C to +85°C

Surface Mount

FFC/FPC

Electrical

Current - Maximum per Contact

Voltage - Maximum

0.4A

50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Packaging Specification

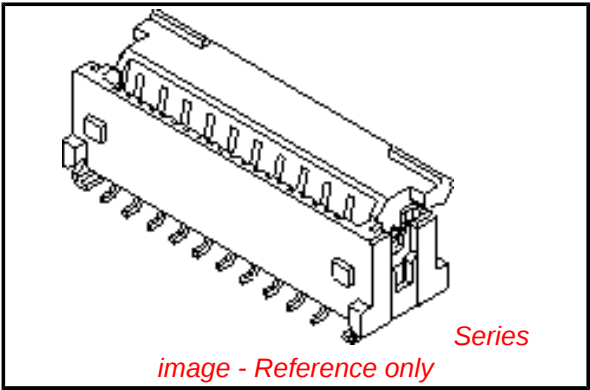
Product Specification

SPK-501951-001

PS-501951-002, RPS-501951-001, RPS-501951-003, RPS-501951-004, RPS-501951-005, RPS-501951-006, RPS-501951-007, RPS-501951-009, RPS-501951-015

Sales Drawing

SD-501951-003, SD-501951-004



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.

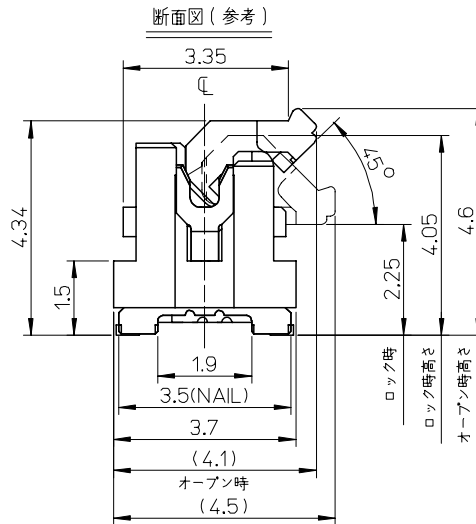
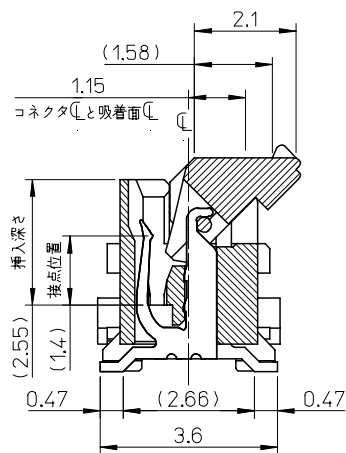
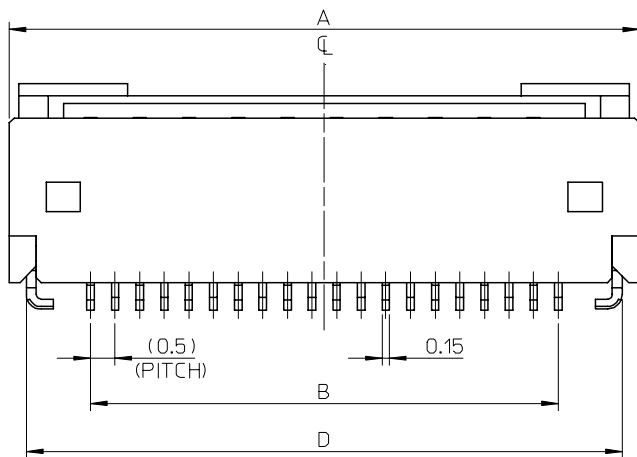
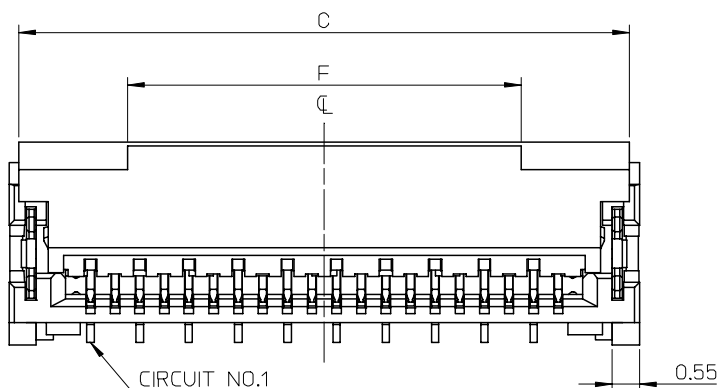
Search Parts in this Series

501951Series

This document was generated on 06/07/2010

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10 9 8 7 6 5 4 3 2 1



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(白)
HOUSING : LIQUID CRYSTAL POLYMER
GLASS FILLED, UL94V-0 (WHITE)
アクチュエータ : ポリアミド 9T, ガラス充填, UL94V-0(茶)
ACTUATOR : POLYAMIDE 9T, GLASS FILLED,
UL94V-0 (BROWN)
ターミナル : 銅合金(t=0.15)
TERMINAL : COPPER ALLOY
金具 : 銅合金(t=0.2)
FITTING NAIL : COPPER ALLOY
 2. めっき仕様 PLATING
ターミナル TERMINAL
ニッケル下地めっき
GOLD(AU) OVER NICKEL(NI) PLATING.
金具 FITTING NAIL
ニッケル下地めっき
TIN(Sn) OVER NICKEL(NI) PLATING.
 3. テールと金具を併せた平坦度は 0.1ミリメートル以下(リフロー前)
TAILS AND NAILS COPLANARITY
TO BE 0.1 MAX. (BEFORE REFLOW)
 4. ELV及びRoHS適合品
ELV AND RoHS COMPLIANT
- ⚠ 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.

8	35.7	37.1	37.4	34.5	37.8	501951-7019	70
	30.7	32.1	32.4	29.5	32.8	501951-6019	60
	25.7	27.1	27.4	24.5	27.8	501951-5019	50
	23.2	24.6	24.9	22	25.3	501951-4519	45
	20.7	22.1	22.4	19.5	22.8	501951-4019	40
	16.7	18.1	18.4	15.5	18.8	501951-3219	32
	15.7	17.1	17.4	14.5	17.8	501951-3019	30
	12.7	14.1	14.4	11.5	14.8	501951-2419	24
	11.7	13.1	13.4	10.5	13.8	501951-2219	22
	10.7	12.1	12.4	9.5	12.8	501951-2019	20
F	E	D	C	B	A	MATERIAL NO. CIRCUITS	

REVISED EC NO: J2008-1229 DRAWN:YAJI MA CHKD:THARUYAMA APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	TRSUZUKI	2006/08/21	TITLE 0.5 FPC CONN. HSG ASSY EASY ON / STRAIGHT (GOLD)				
		10 OVER 30 UNDER	±0.25	HHIRATA	2006/08/21					
		30 OVER	±0.3	APPROVED BY MSASAO	DATE 2006/08/21	MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-501951-003		1 OF 2		
	REV				SIZE A3	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

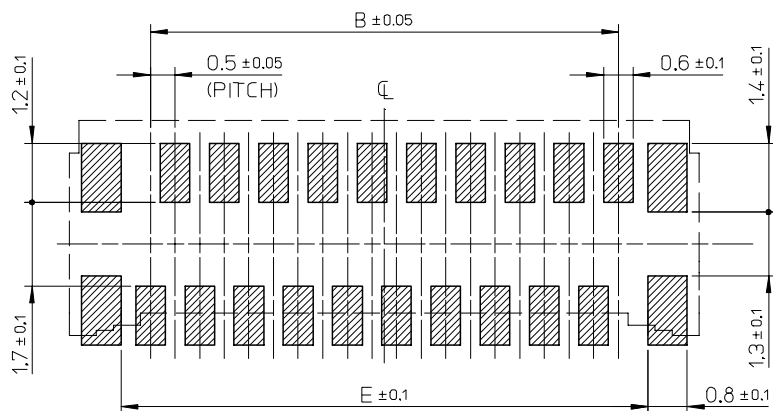
E

D

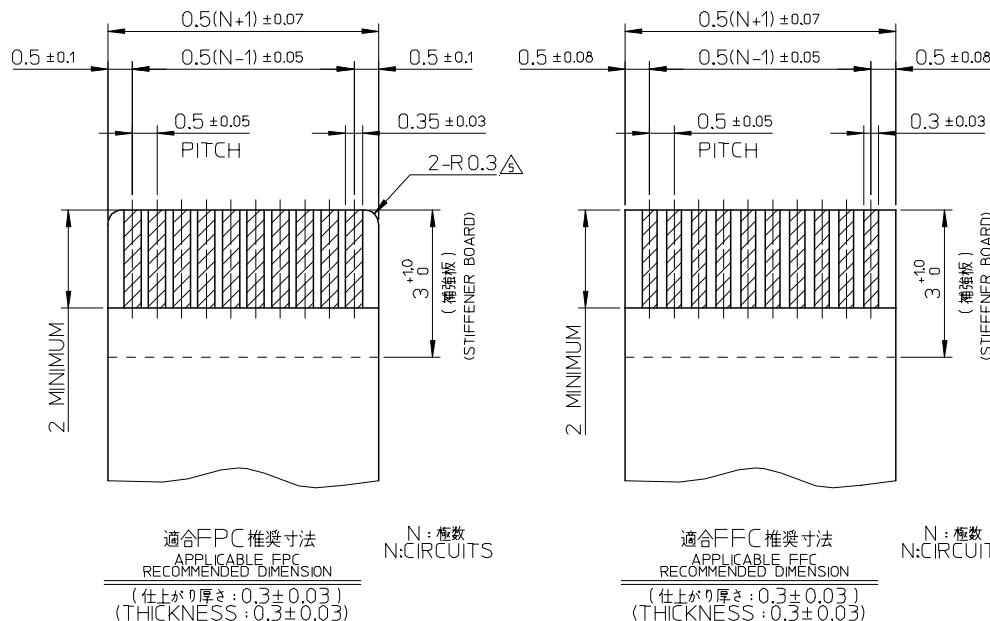
C

B

A



参考基板レイアウト (マウント面)
P.C. BOARD PATTERN DIMENSION (REF.)
(MOUNT AREA)



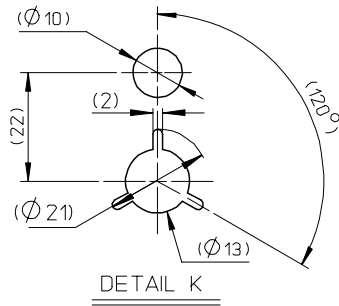
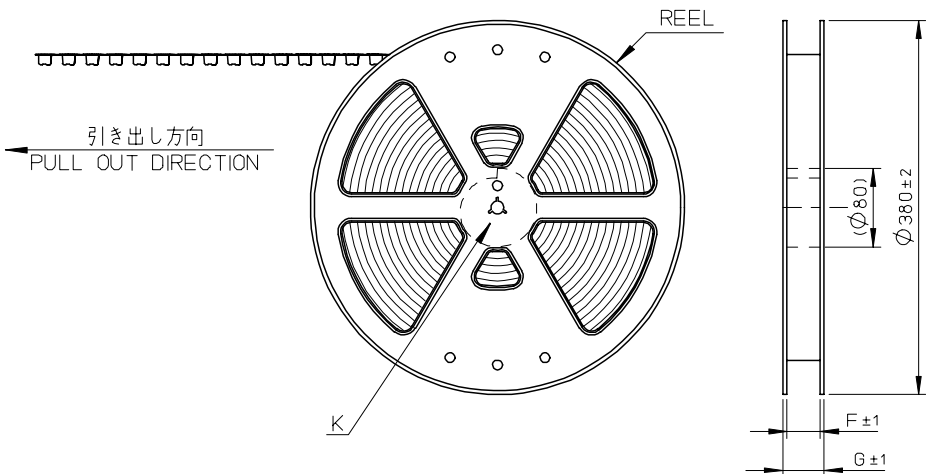
FPC について:

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35 μ mまたは50 μ m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25 μ m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

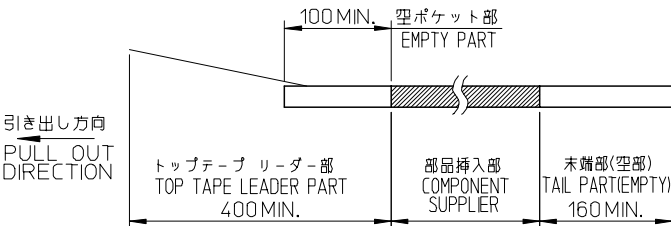
RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.
RECOMMENDED CONDUCTOR SPEC :
THICKNESS OF SOFT COPPER FOIL : 35 MICROMETER OR 50 MICROMETER.
RECOMMENDED MATERIAL/THICKNESS.
STIFFENER FILM : POLYIMIDE
BASE FILM THICKNESS : 25 μ m
BONDING AGENT : THERMOSETTING BONDING AGENT
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 EC NO: J2008-1229 DRAWN:YAJIMA 2007/10/11 CHKD:THARUYAMA 2007/10/11 APPR:NUKITA 2007/10/12	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY TRSUZUKI	DATE 2006/08/21	TITLE 0.5 FPC CONN. HSG ASSY EASY ON / STRAIGHT (GOLD)				
		10 OVER 30 UNDER	± 0.25	CHECKED BY HHIRATA	DATE 2006/08/21					
		30 OVER	± 0.3	APPROVED BY MSASAO	DATE 2006/08/21	MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-501951-003		2 OF 2			
	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



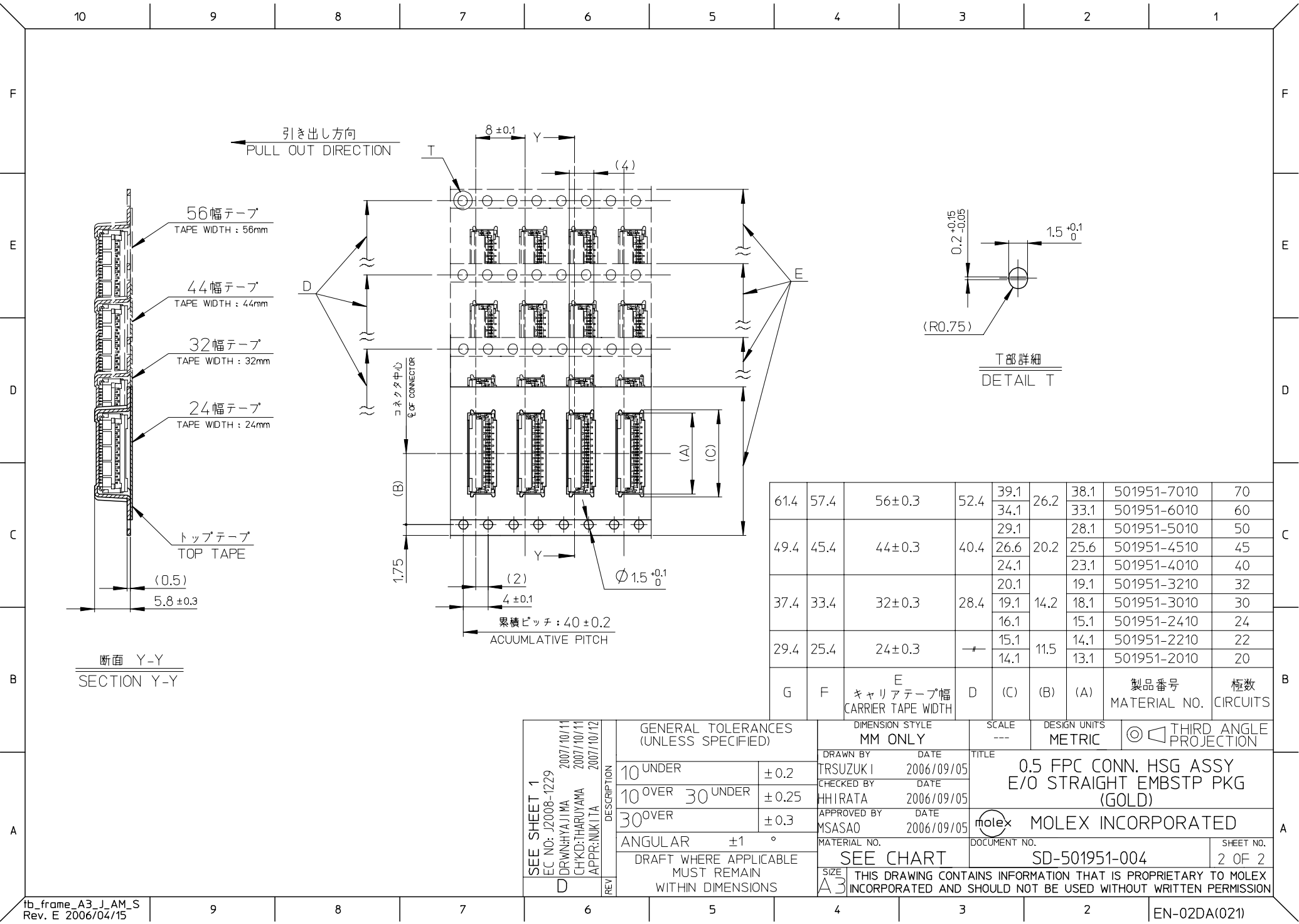
NOTES

- 製品詳細寸法については図面 SD-501951-003を参照下さい。
FOR DIMENSIONS OF PRODUCT, REFER TO RSD-501951-007.
- 梱包数量 : 2000個/リール
NUMBER OF CONNECTORS : 2000PIECES/REEL
- リードテープ長さ
LEAD TAPE LENGTH



- 材料 MATERIAL
キャリアテープ : ポリプロピレン
CARRIER TAPE : POLYPROPYLENE
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>
- ELV及びRoHS適合品 ELV AND RoHS COMPLIANT

REVISED EC NO: J2008-1229 DRAWN: HAYASHI 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 TRSUZUKI	DATE 2006/09/05	TITLE 0.5 FPC CONN. HSG ASSY E/O STRAIGHT EMBSTP PKG (GOLD)				
		10 OVER 30 UNDER	±0.25	CHECKED BY HHIRATA	DATE 2006/09/05					
		30 OVER	±0.3	APPROVED BY MSASAO	DATE 2006/09/05					
		ANGULAR ±1°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 2		SD-501951-004		1 OF 2		
		REV		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



断面 Y-Y
SECTION Y-Y

T部詳細
DETAIL T

61.4	57.4	56±0.3	52.4	39.1	26.2	38.1	501951-7010	70
				34.1		33.1	501951-6010	60
49.4	45.4	44±0.3	40.4	29.1	20.2	28.1	501951-5010	50
				24.1		23.1	501951-4510	45
				20.1		19.1	501951-3210	32
37.4	33.4	32±0.3	28.4	19.1	14.2	18.1	501951-3010	30
				16.1		15.1	501951-2410	24
29.4	25.4	24±0.3	—	15.1	11.5	14.1	501951-2210	22
				14.1		13.1	501951-2010	20
G	F	E キャリアテープ幅 CARRIER TAPE WIDTH	D	(C)	(B)	(A)	製品番号 MATERIAL NO.	極数 CIRCUITS

SEE SHEET 1 EC NO: J2008-1229 DRAWN BY: JIMA CHKD: THARUYAMA APPR: NUKITA REV: D	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY TRSUZUKI	DATE 2006/09/05	TITLE 0.5 FPC CONN. HSG ASSY E/O STRAIGHT EMBSTP PKG (GOLD)				
		10 OVER 30 UNDER	±0.25	CHECKED BY HHIRATA	DATE 2006/09/05					
		30 OVER	±0.3	APPROVED BY MSASAO	DATE 2006/09/05	MOLEX MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-501951-004		2 OF 2		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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