

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

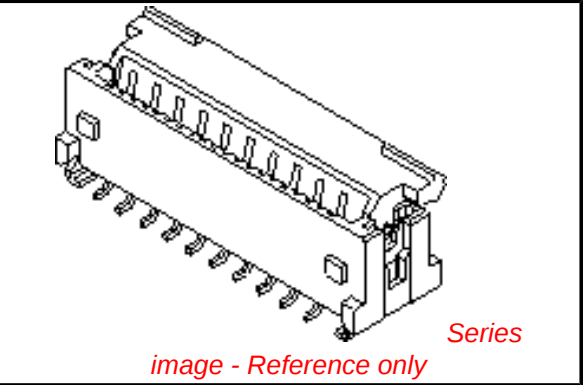
5019513010

Status:

Active

Description:

0.50mm (.020") Pitch Easy-On™ FFC/FPC Connector, Vertical, SMT, Gold Plating, 30 Circuits



Documents:	
3D Model	Product Specification PS-501951-002 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

General	
Product Family	FFC/FPC Connectors
Series	501951
MolexKits	Yes
Product Name	Easy-On™
Physical	
Circuits (Loaded)	30
Circuits (maximum)	30
Color - Resin	Brown, Natural
Contact Position	N/A
Durability (mating cycles max)	20
Entry Angle	Vertical
Mated Height (in)	0.159 In
Mated Height (mm)	4.05 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Number of Rows	1
Orientation	Vertical
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
Pitch - Term. Interface (in)	0.020 In
Pitch - Term. Interface (mm)	0.50 mm
Polarized to PCB	No
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Surface Mount
Wire/Cable Type	FFC/FPC
Electrical	
Current - Maximum per Contact	0.4A
Voltage - Maximum	50V AC (RMS)/DC
Material Info	
Reference - Drawing Numbers	
Packaging Specification	SPK-501951-001
Product Specification	PS-501951-002, RPS-501951-001, RPS-501951-002, 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.

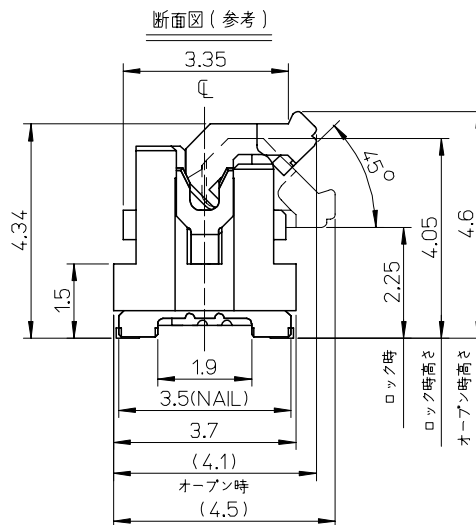
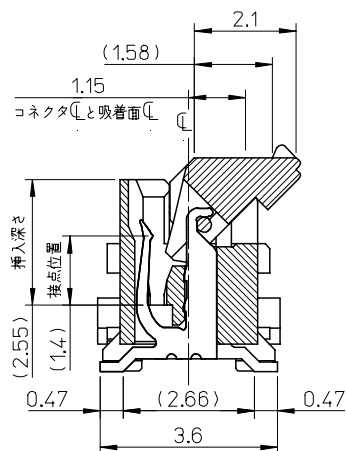
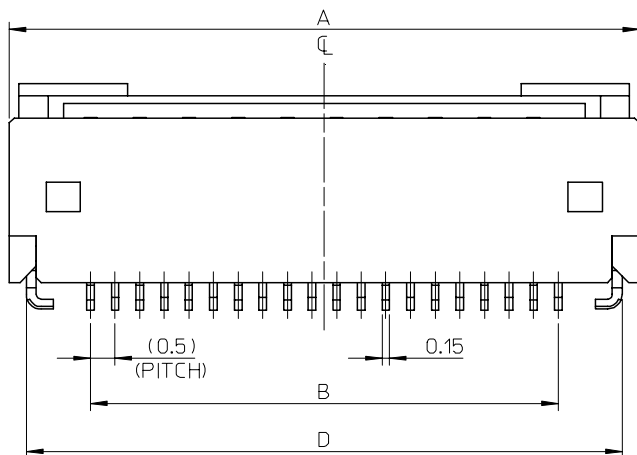
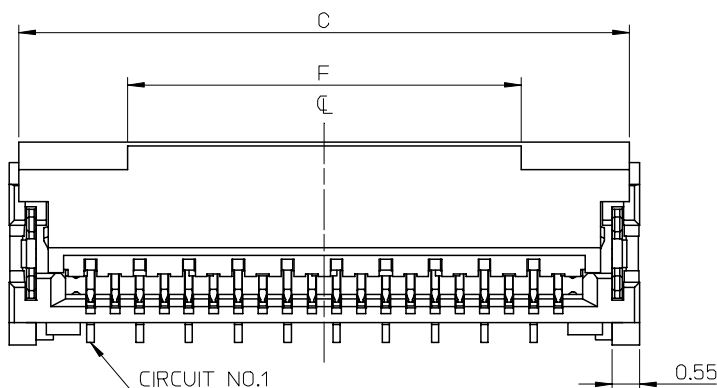
Search Parts in this Series

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:YAJIMA 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	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. 1 OF 2
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART					SD-501951-003	
	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

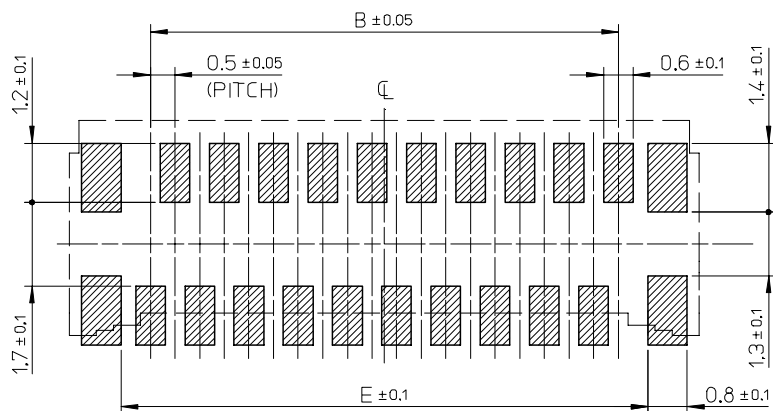
E

D

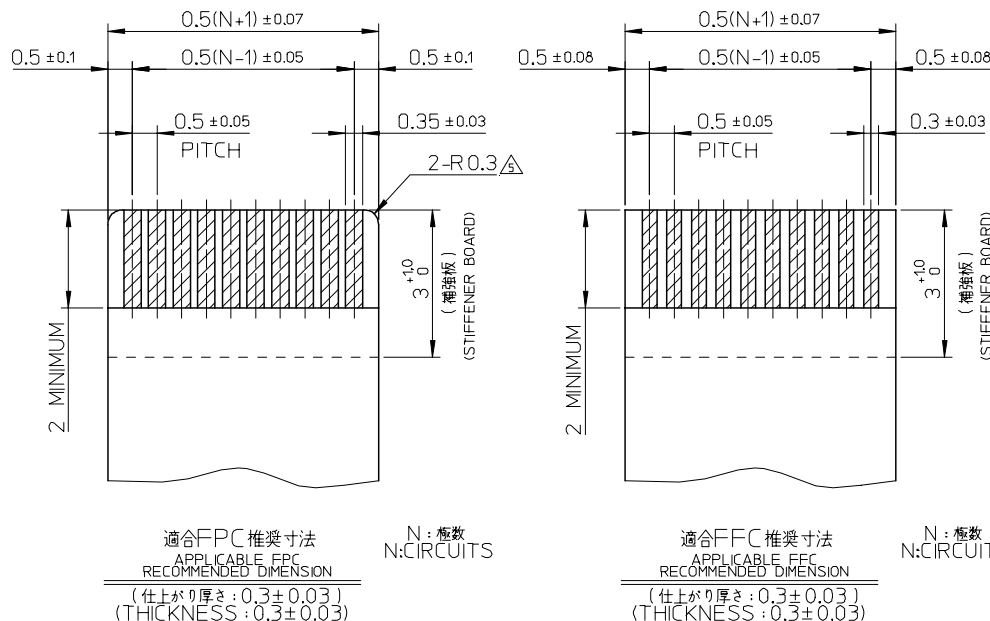
C

B

A



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



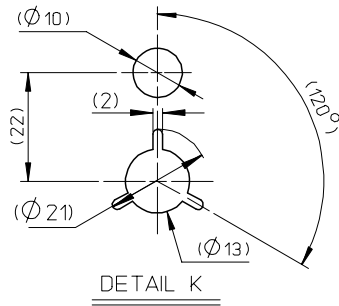
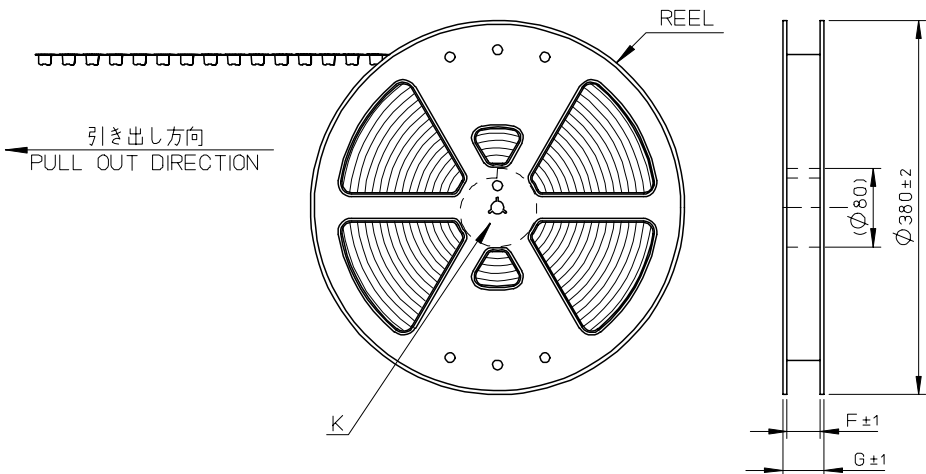
FPC について:

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

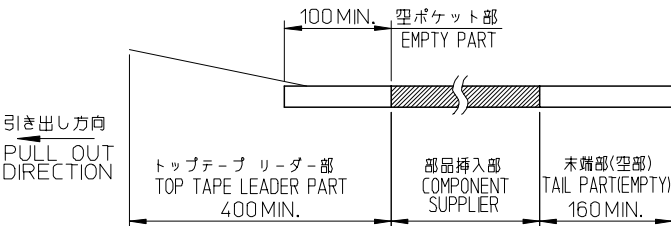
RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.
RECOMMENDED CONDUCTOR SPEC :
THICKNESS OF SOFT COPPER FOIL : 35 MICROMETER OR 50 MICROMETER.
RECOMMENDED MATERIAL/THICKNESS.
STIFFENER FILM : POLYIMIDE
BASE FILM THICKNESS : 25 μ m
BONDING AGENT : THERMOSETTING BONDING AGENT
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: J2008-4229 DRAWN:YAJIMA CHKD:THARUYANA APPR:NUKAITA	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. 2 OF 2		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-501951-003				
	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



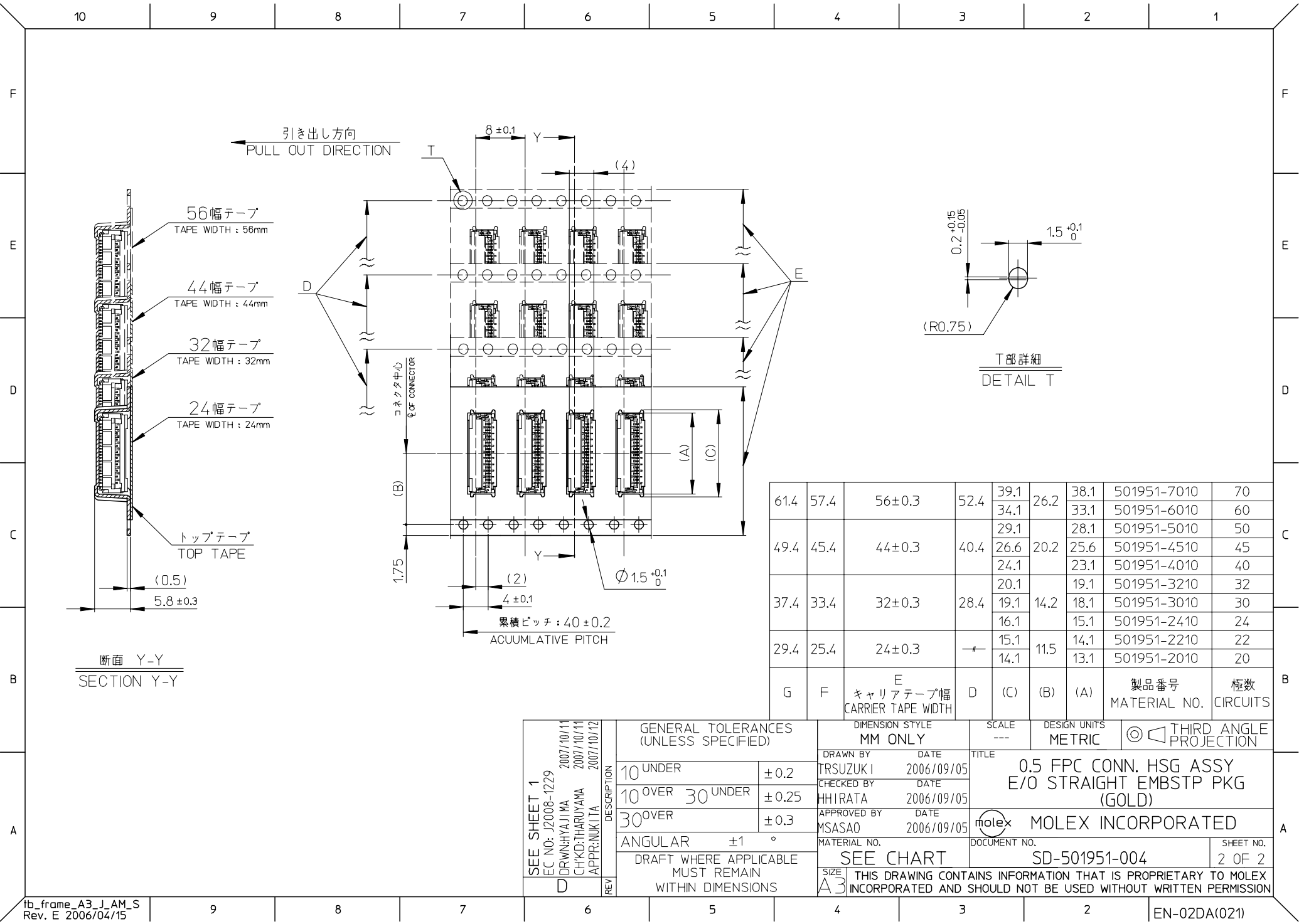
NOTES

- 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 D DRAWN BY: DRW:HYAJIMA CHKD: THARUYAMA APPR: NUKITA	DESCRIPTION REV	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 INCORPORATED			
		ANGULAR ±1°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 2		SD-501951-004		1 OF 2		
		SIZE A3		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	501951-4010	40
37.4	33.4	32±0.3	28.4	20.1	14.2	19.1	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	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
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		30 OVER	±0.3	APPROVED BY MSASAO	DATE 2006/09/05	MOLEX INCORPORATED				
		ANGULAR	±1 °	MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-501951-004			2 OF 2	
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								