

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [5018764040](#)
Status: **Active**
Overview: [igrid](#)
Description: 2.00mm (.079") Pitch iGrid™ Wire-to-Board Header, Dual Row, Right Angle, 40 Circuits

Documents:

[3D Model](#) [Product Specification PS-501646-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Headers
Series	501876
Application	Wire-to-Board
Overview	igrid
Product Name	iGrid™

Physical

Breakaway	No
Circuits (Loaded)	40
Color - Resin	Natural
Durability (mating cycles max)	30
Glow-Wire Compliant	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.126 In
PC Tail Length (mm)	3.20 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.047 In, 0.063 In
PCB Thickness Recommended (mm)	1.20 mm, 1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.079 In
Pitch - Mating Interface (mm)	2.00 mm
Polarized to Mating Part	Yes
Polarized to PCB	No
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Through Hole

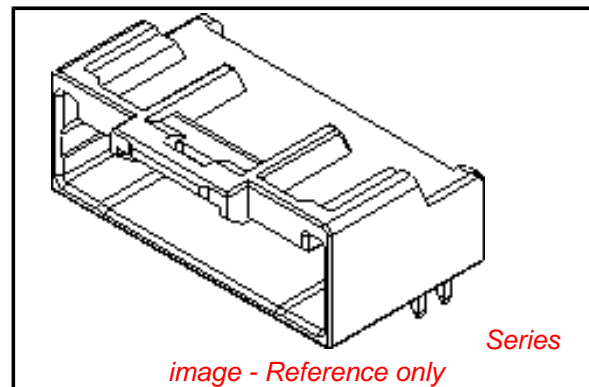
Electrical

Current - Maximum per Contact	2A
Voltage - Maximum	250V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-501876-001
Product Specification	PS-501646-001, RPS-501646-001, RPS-501646-002, RPS-501646-003, RPS-501646-004, RPS-501646-005, RPS-501646-006, RPS-501646-007



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

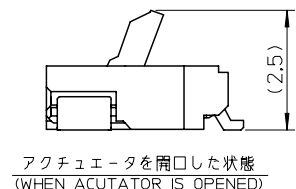
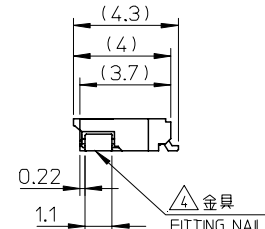
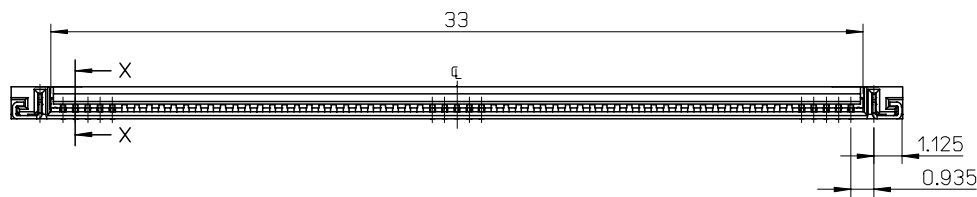
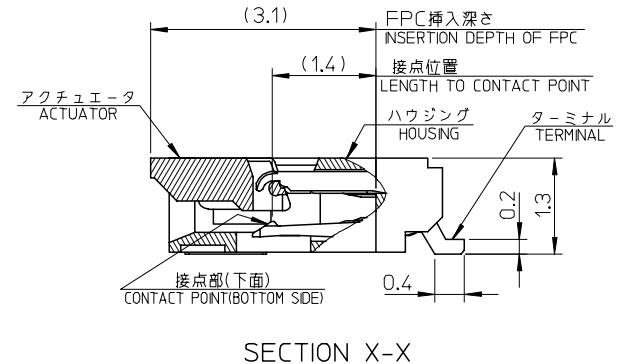
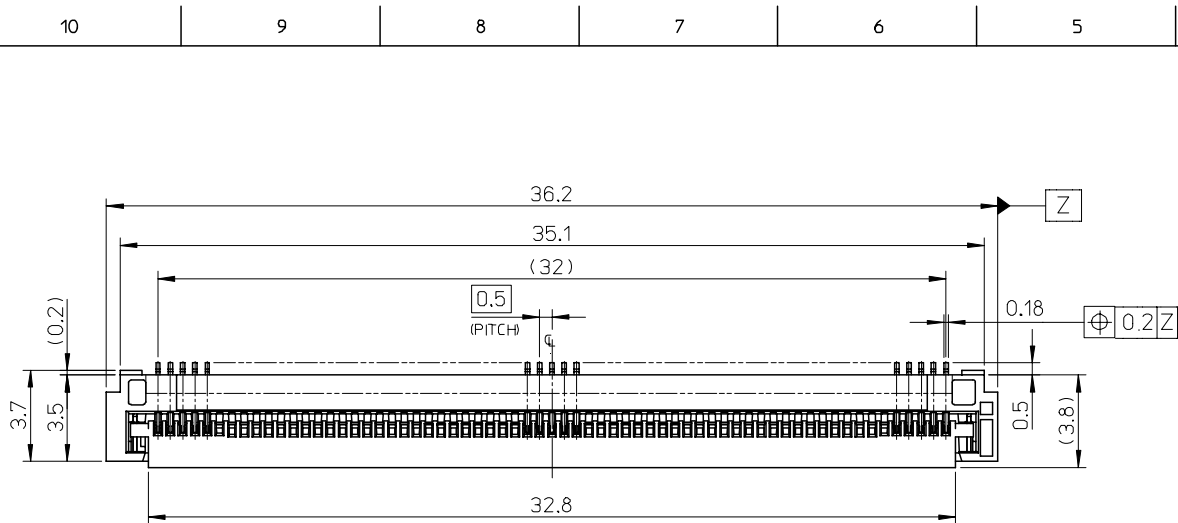
[501876Series](#)

Mates With

[501646](#) Housing. [501647](#) Crimp Terminal
 22-26 AWG. [501648](#) Crimp Terminal 26-28
 AWG

This document was generated on 05/26/2010

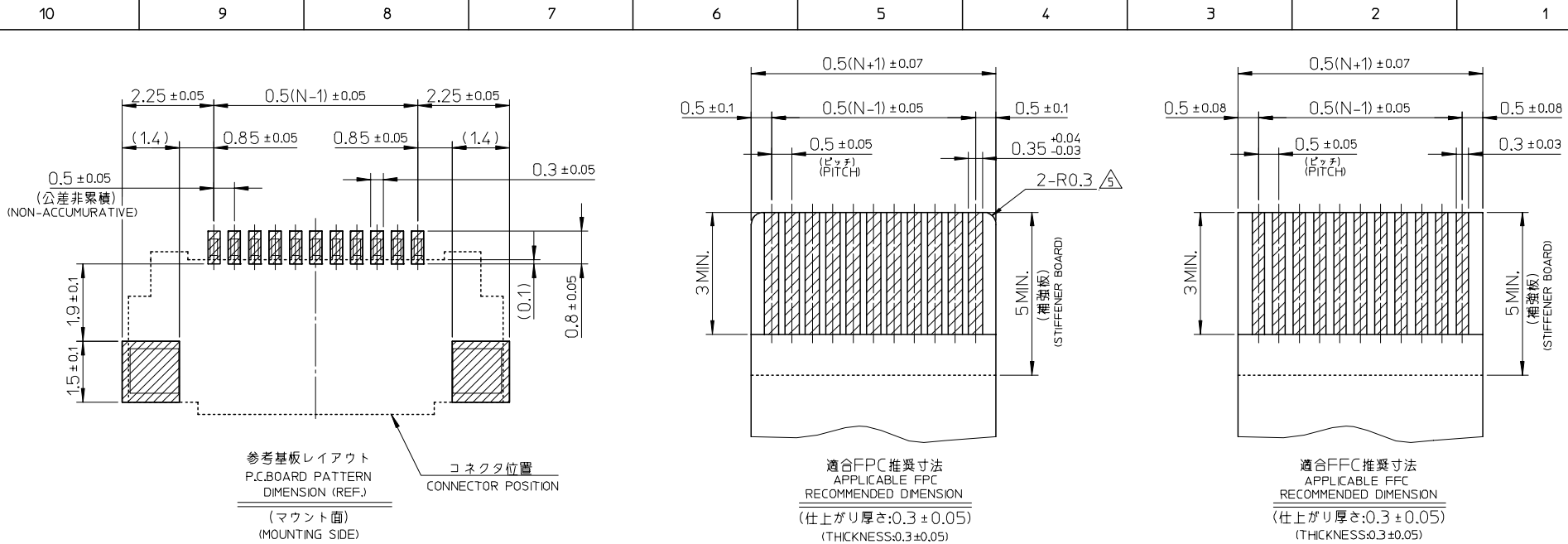
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



501896-6511	65
製品番号 MATERIAL NO.	極数 Ckt

501896-**x11	MODEL NO.
DESIGN UNITS METRIC	THIRD ANGLE PROJECTION

REVISED EC NO: J2007-1362 DRWN:Y.TAKAYASU 2006/11/09 CHKD:H.HIRATA 2006/11/09 APPR:H.HIRATA 2006/11/10	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 5:1	DESIGN UNITS METRIC	TITLE 0.5 FPC CONN ZIF E/O HSG ASSY (HGT=1.3) -LEAD FREE-
	10 UNDER	±0.2	DRAWN BY Y.TAKAYASU	DATE 2005/08/01	MOLEX INCORPORATED	
	10 OVER 30 UNDER	±0.25	CHECKED BY H.HIRATA	DATE 2005/08/01		DOCUMENT NO. SD-501896-001
	30 OVER	±0.3	APPROVED BY H.HIRATA	DATE 2005/08/01	SHEET NO. 1 OF 2	
	ANGULAR	±3 °	MATERIAL NO.		SEE CHART	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



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, UL94-V0(ベージュ)
HOUSING : LIQUID CRYSTAL POLYMER GLASS FILLED, UL94-V0(BEIGE)
- アクチュエータ : ポリアミド9T ガラス充填, UL94-V0(黒)
ACTUATOR : POLYAMIDE 9T GLASS FILLED, UL94-V0(BLACK)
- ターミナル : リン青銅(t=0.18)
TERMINAL : PHOSPHOR BRONZE
- 金具 : リン青銅(t=0.15)
FITTING NAIL : PHOSPHOR BRONZE

△ パターン剥離止め用金具
FITTING NAIL FOR PREVENTION OF PEELING OF PCB PATTERN.

△ 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.

6. N : 極数 N : CIRCUIT.

2. めっき仕様 PLATING

- ターミナル TERMINAL
ニッケル下地めっき(Niバリア)
GOLD(Au) OVER NICKEL(Ni) PLATING. Ni BARRIER.

- 金具 FITTING NAIL
ニッケル下地めっき
TIN(Sn) OVER NICKEL(Ni) PLATING.

3. エンボスタープ梱包時は、アクチュエータが閉じた状態とする。
IN THE PACKAGE, ACTUATOR OF PART 501896-**11 SHOULD BE CLOSED.

FPC/FFC 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35μmまたは50μmを推奨します。

ABOUT FPC/FFC

RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.
RECOMMENDED CONDUCTOR THICKNESS OF SOFT COPPER FOIL : 35 μm OR 50 μm.

FPC について:

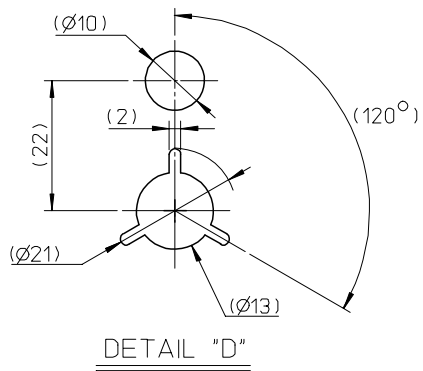
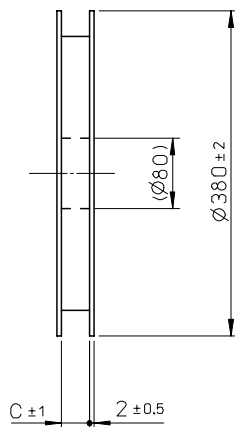
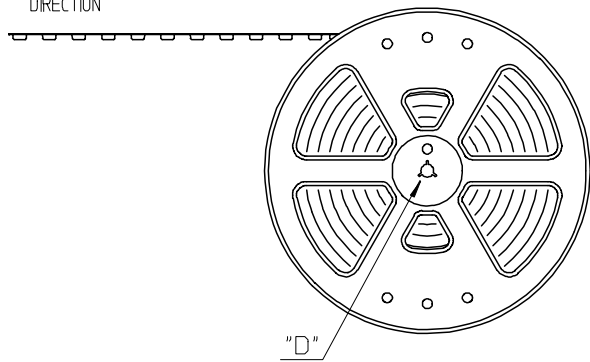
補強フィルム材質はポリイミドを推奨します。
接着剤は熱硬化接着剤を推奨します。ベースフィルムは25μmを推奨します。
尚、接着剤の接点部への付着は導通不良の原因になりますので、染み出しが無い様、お願い致します。

ABOUT FPC

RECOMMENDED MATERIAL/THICKNESS.
STIFFENER FILM : POLYIMIDE
BONDING AGENT : THERMOSETTING BONDING AGENT
BASE FILM THICKNESS : 25μm
PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON THE CONTACT AREA BECAUSE THE EXTRA ADHESIVE MAY CAUSE THE DEFECT IN ELECTRICAL CONTINUITY.

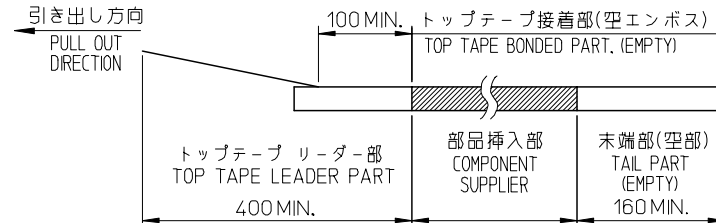
REVISED		EC NO: J2007-1362		DRWN:Y.TAKAYASU 2006/11/09		CHKD:H.HIRATA 2006/11/09		APPR:H.HIRATA 2006/11/10		DESCRIPTION	
GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION			
		MM ONLY		---		METRIC					
10 UNDER ±0.2		DRAWN BY DATE		TITLE		DESIGN UNITS		501896-**11 MODEL NO.			
10 OVER 30 UNDER ±0.25		Y.TAKAYASU 2005/08/01		0.5 FPC CONN ZIF E/0 HSG ASSY (HGT=1.3) -LEAD FREE-		METRIC					
30 OVER ±0.3		CHECKED BY DATE		H.HIRATA 2005/08/01							
ANGULAR ±3 °		APPROVED BY DATE		H.HIRATA 2005/08/01		MOLEX		MOLEX INCORPORATED			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.					
		SEE SHEET 1 OF 2		SD-501896-001		2 OF 2					
		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

引き出し方向
PULL OUT
DIRECTION



NOTES

- 製品詳細寸法については図面 SD-501896-001 を参照下さい。
FOR DIMENSIONS OF PRODUCT, REFER TO SD-501896-001.
- 梱包数量：3000個/リール
NUMBER OF CONNECTORS：3000 PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



4. 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
TOPTAPE：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>

501896-***91 MODEL NO.

REVISED EC NO: J2007-1362 DRWN:Y.TAKAYASU 2006/11/09 CHKD:H.HIRATA 2006/11/09 APPR:H.HIRATA 2006/11/10	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	10 UNDER	± 0.2	DRAWN BY Y.TAKAYASU	DATE 2005/08/08	TITLE 0.5 FPC CONN ZIF E/O EMBSTP PKG (HGT=1.3MM) -LEAD FREE-		
	10 OVER 30 UNDER	± 0.25	CHECKED BY H.HIRATA	DATE 2005/08/08	MOLEX INCORPORATED		
	30 OVER	± 0.3	APPROVED BY H.HIRATA	DATE 2005/08/08	DOCUMENT NO. SD-501896-002		
	ANGULAR	± 3 °	MATERIAL NO.		SHEET NO. 1 OF 2		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 2 OF 2		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

引き出し方向
PULL OUT DIRECTION

E

D

C

B

A

F

E

D

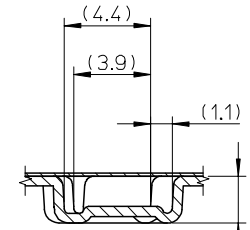
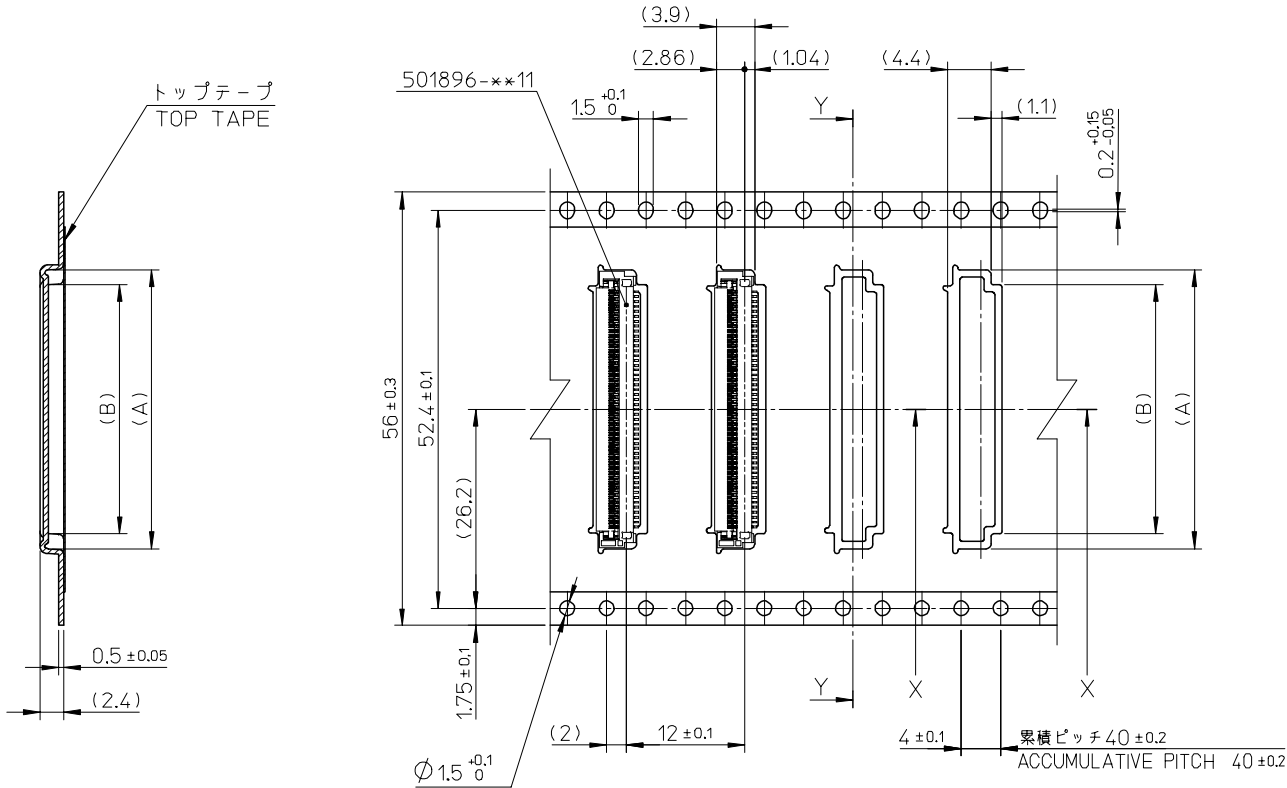
C

B

A

トップテープ
TOP TAPE

501896-**11



SECT. Y-Y

56mm幅キャリアテープ
56mm WIDTH CARRIER TAPE

累積ピッチ 40 ± 0.2
ACCUMULATIVE PITCH 40 ± 0.2

56	57.5	33.39	36.4	501896-6591	65
キャリアテープ幅 CARRIER TAPE WIDTH	C	(B)	(A)	製品番号 MATERIAL No.	極数 Ckt

REVISED EC NO: J2007-1362 DRWN:Y.TAKAYASU 2006/11/09 CHKD:H.HIRATA 2006/11/09 APPR:H.HIRATA 2006/11/10	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	10 UNDER	± 0.2	DRAWN BY Y.TAKAYASU	DATE 2005/08/08	TITLE 0.5 FPC CONN ZIF E/O EMBSTP PKG (HGT=1.3MM) -LEAD FREE-		
	10 OVER 30 UNDER	± 0.25	CHECKED BY H.HIRATA	DATE 2005/08/08	MOLEX INCORPORATED		
	30 OVER	± 0.3	APPROVED BY H.HIRATA	DATE 2005/08/08	MATERIAL NO.	DOCUMENT NO. SD-501896-002	SHEET NO. 2 OF 2
ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART			
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

9

8

7

6

5

4

3

2