

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

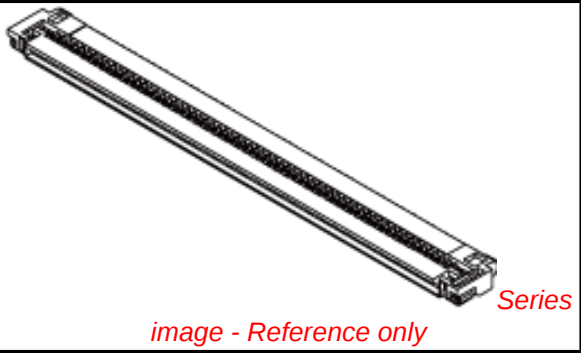
5018966591

Status:

Active

Description:

0.50mm (.020") Pitch Easy-On™ FFC/FPC Connector, 1.30mm (.051") Height, Right Angle, SMT, ZIF, Bottom Contact Style, 65 Circuits, Lead-free, Gold Contact Plating



Documents:	
3D Model	Product Specification PS-501896-002 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)
Product Specification PS-501896-001 (PDF)	

General	
Product Family	FFC/FPC Connectors
Series	501896
Product Name	Easy-On™
Physical	
Circuits (Loaded)	65
Circuits (maximum)	65
Color - Resin	Black, Natural
Contact Position	Bottom
Durability (mating cycles max)	20
Entry Angle	90° Angle
Mated Height (in)	0.051 In
Mated Height (mm)	1.30 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Material - Resin	High Temperature Thermoplastic
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.000 In
PC Tail Length (mm)	0.00 mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.000 In
PCB Thickness Recommended (mm)	0.00 mm
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
Plating min: Mating (µin)	4
Plating min: Mating (µm)	0.1
Plating min: Termination (µin)	2
Plating min: Termination (µm)	0.05
Polarized to PCB	Yes
Stackable	No
Surface Mount Compatible (SMC)	Yes
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 AC (RMS)/DC

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

501896Series

Material Info

Reference - Drawing Numbers

Product Specification	PS-501896-001, PS-501896-002
Sales Drawing	SD-501896-001, SD-501896-002

This document was generated on 04/19/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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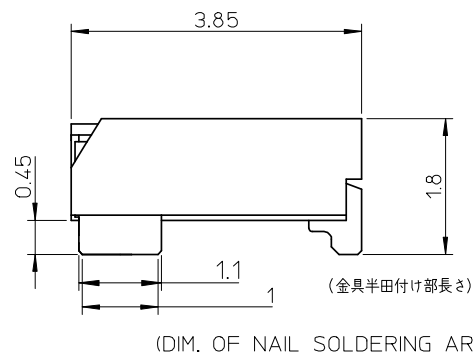
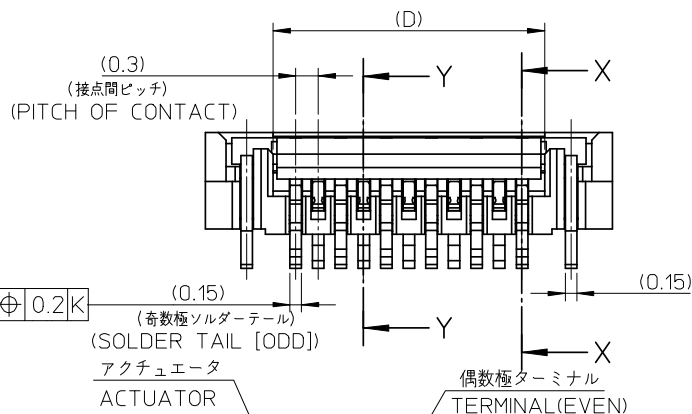
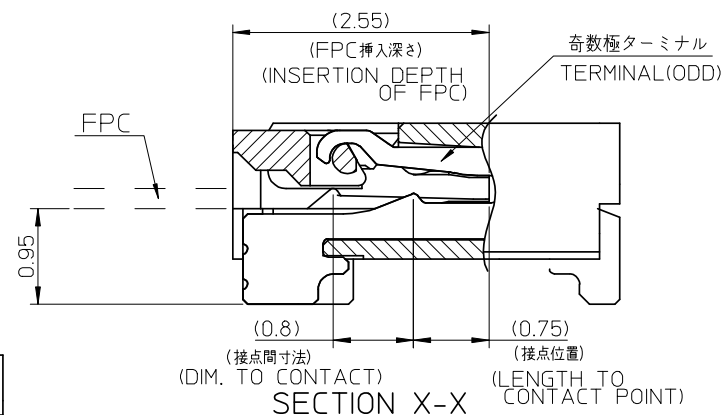
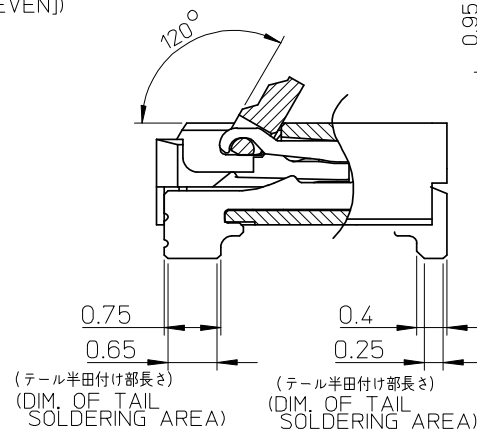
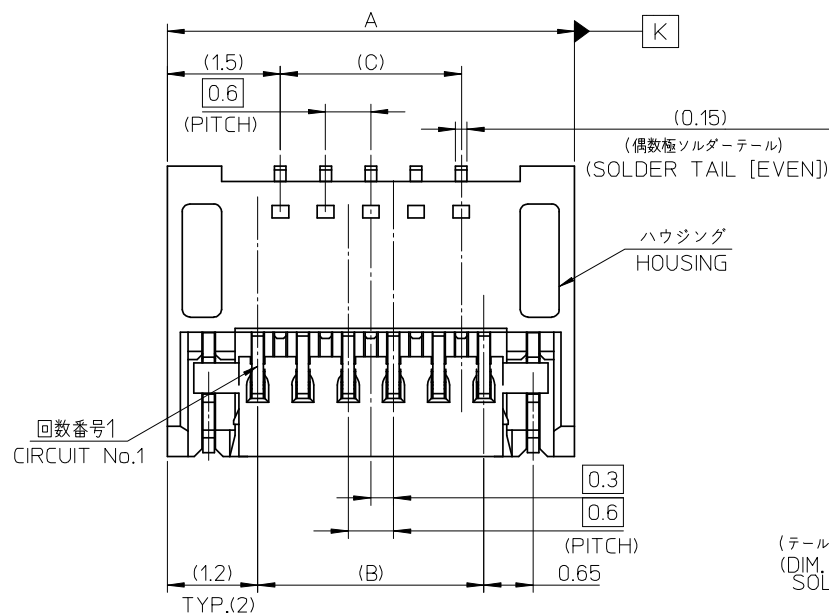
5

4

3

2

1



15.6	14.4	15.0	17.4	501912-5190	501912-5110	51
14.4	13.2	13.8	16.2	501912-4790	501912-4710	47
13.8	12.6	13.2	15.6	501912-4590	501912-4510	45
12.6	11.4	12.0	14.4	501912-4190	501912-4110	41
12.0	10.8	11.4	13.8	501912-3990	501912-3910	39
11.4	10.2	10.8	13.2	501912-3790	501912-3710	37
10.8	9.6	10.2	12.6	501912-3590	501912-3510	35
10.2	9.0	9.6	12.0	501912-3390	501912-3310	33
8.4	7.2	7.8	10.2	501912-2790	501912-2710	27
7.8	6.6	7.2	9.6	501912-2590	501912-2510	25
7.2	6.0	6.6	9.0	501912-2390	501912-2310	23
6.6	5.4	6.0	8.4	501912-2190	501912-2110	21
4.8	3.6	4.2	6.6	501912-1590	501912-1510	15
D	C	B	A	EMBOSS-TAPE PKG ORDER No.	MATERIAL No.	CIRCUIT

MODEL No. 501912-**10

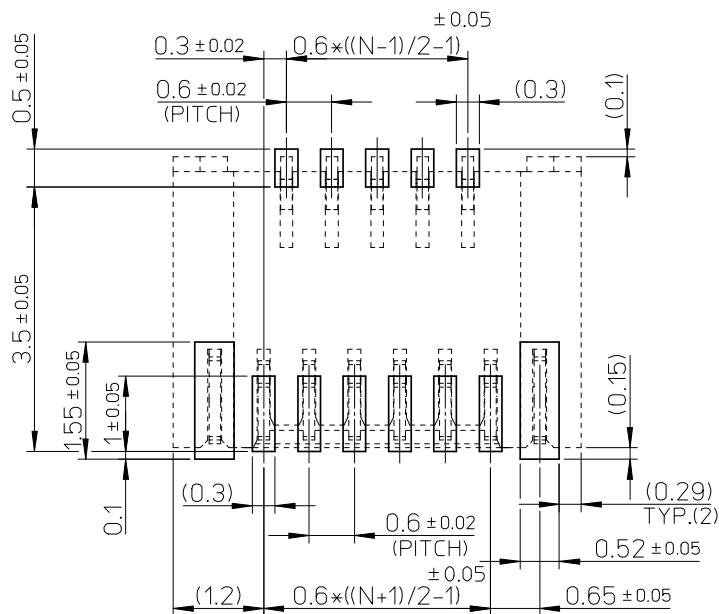
0.3 FPC CONN E/O HSG
ASSY (HGT=1.8MM)
GOLDPLATING

MOLEX INCORPORATED

DOCUMENT NO.
SD-501912-001

SHEET NO.
1 OF 2

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



参考基板レイアウト図
(マウント面)
(MOUNTING SIDE)

注記 NOTES

1. 使用材料 MATFRIAL

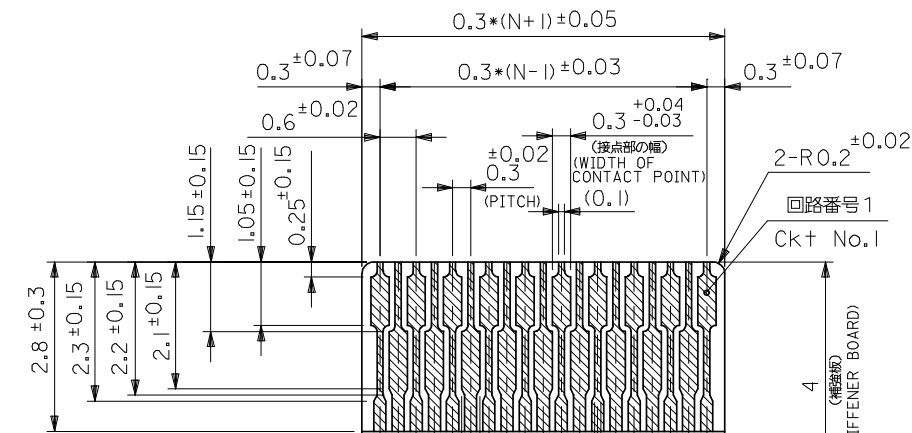
ハウジング : 耐熱性樹脂 ガラス充填 UL94V-0
HOUSING : HEAT RESISTANCE POLYMER (GLASS FILLED) UL94V-0
アクチュエータ : 耐熱性樹脂 ガラス充填 UL94V-0
ACTUATOR : HEAT RESISTANCE POLYMER (GLASS FILLED) UL94V-0
ターミナル : 銅合金 (t=0.15), ニッケル下地金メッキ
TERMINAL : COPPER ALLOY, GOLD OVER NICKEL PLATING.
金具 : 銅合金 (t=0.15), ニッケル下地スズメッキ
FITTING NAIL : COPPER ALLOY , TIN OVER NICKEL PLATING.

ハウジングに黒点がある場合が有りますが、問題はありません。

2. ソルダータール半田付け面、及び金具半田付け面の平坦度 : 0.1mm MAXIMUM.

COPLANARITY OF SOLDER TAILS AND FITTING NAILS
TO BE 0.1mm MAXIMUM.

3. ELV AND RoHS COMPLIANT.



適合FPC推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION
(仕上がり厚さ : 0.2 ± 0.03)
(THICKNESS: 0.2 ± 0.03)

FPC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マイクロメートルまたは50マイクロメートルを
推奨致します。
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。

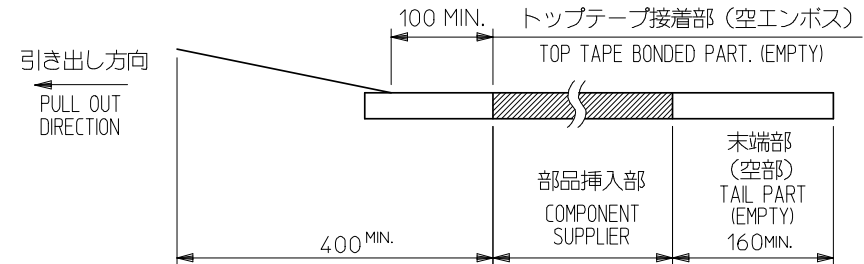
ABOUT FPC

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 :
STIFFENER FILM : POLYIMIDE
BONDING AGENT : THERMOSETTING BONDING AGENT

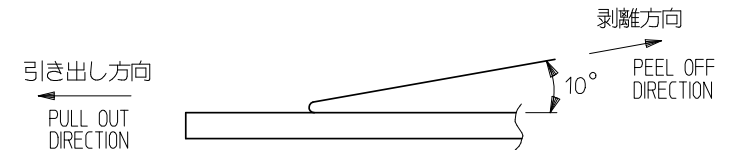
REVISED	EC NO. J2008-3324	DRAWN:HTAGAMI	2008/03/25	CHKD:K.TAKAHASHI	2008/04/07	APPR:K.TAKAHASHI	2008/04/07	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ----	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		TITLE 0.3 FPC CONN E/O HSG ASSY (HGT=1.8MM) GOLDPLATING
									10 UNDER	± 0.2	DRAWN BY M.HAYASHI	DATE 2005/07/28	MOLEX MOLEX INCORPORATED				
									10 OVER 30 UNDER	± 0.25	CHECKED BY H.HIRATA	DATE 2005/07/28					
									30 OVER	± 0.3	APPROVED BY M.SASAO	DATE 2005/07/28					
									ANGULAR ±3 °		MATERIAL NO.			DOCUMENT NO.	SHEET NO.		
									DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-501912-001		2 OF 2		
								REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

NOTES

- 製品詳細寸法は製品単体図面を参照して下さい。
FOR DETAIL OF CONNECTOR DIMENSIONS,PLEASE SEE THE DRAWING OF CONNECTOR ITSELF(NOT PACKAGED).
- 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



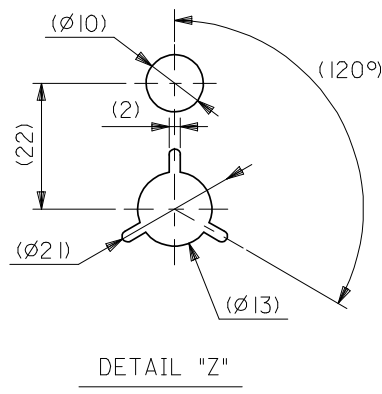
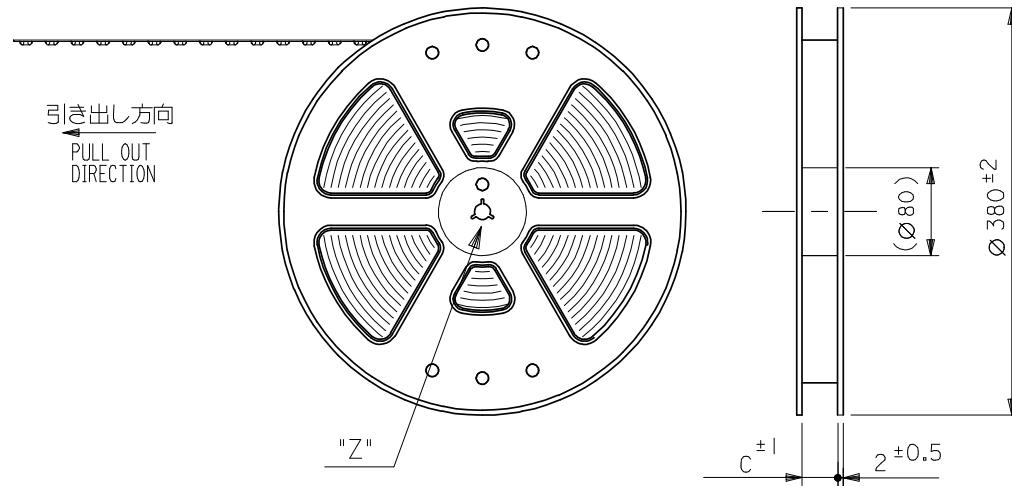
- トップテープの剥離強度：60±35gf (0.25N～0.93N) (剥離方向は下図参照) 尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)
PEELING OFF FORCE OF TOP TAPE：65gf±30gf (0.25N～0.93N) (PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.) THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT. PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTATION.



5. 材料(MATERIAL)

キャリアテープ (CARRIER TAPE)：ポリスチレン (POLYSTYREN)
トップテープ (TOP TAPE)：PET, PE, PEF
リール(REEL)：ポリスチレン(PS) <リサイクル材を含む>
POLYSTYREN(PS) <RECYCLE MATERIAL CONTAINED>

- C寸法は SHEET 2～4を参照下さい。
SEE SHEET 2～4(DIMENSION C).
- ELV AND RoHS COMPLIANT.



REVISED EC NO: J2008-3324 DRAWN: HTAGAMI CHKD: K TAKAHASHI APPR: K TAKAHASHI	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	501912-**-90 DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	MODEL NO.	
		10 UNDER	± 0.2	DRAWN BY M. HAYASHI	DATE 2005/10/11	TITLE EMBSTP PKG FOR 0.3 FPC CONN (HGT=1.8MM) GOLD PLATING	 MOLEX INCORPORATED	SHEET NO. 1 OF 4	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
		10 OVER 30 UNDER	± 0.25	CHECKED BY H. HIRATA	DATE 2005/10/11					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2005/10/11					
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO. SD-501912-002				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE						
				SIZE A3						

10 9 8 7 6 5 4 3 2 1

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C

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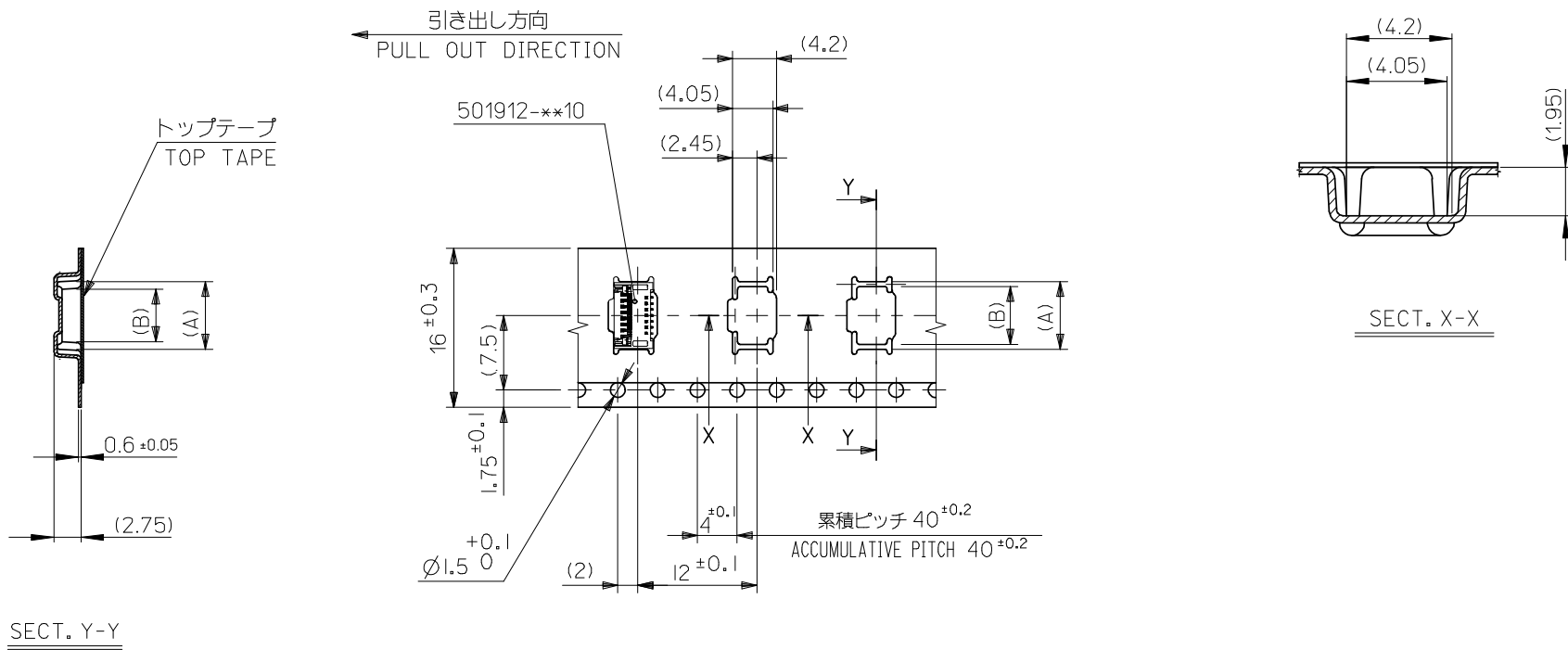
E

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C

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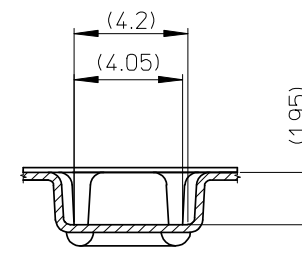
A



16 mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

16	17.5	4.6	6.8	501912-1590	15
キャリアテープ幅 CARRIER TAPE WIDTH	C	(B)	(A)	製品番号 MATERIAL No.	極数 CK+
				501912-**90	MODEL No.

REVISED EC NO: J2008-3324 2008/03/25 DRAWN: HTAGAMI 2008/04/07 CHKD: KITAKAHASHI 2008/04/07 APPR: KITAKAHASHI	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY M. HAYASHI	DATE 2005/10/11	TITLE EMBSTP PKG FOR 0.3 FPC CONN (HGT=1.8MM) GOLD PLATING				
		10 OVER 30 UNDER	±0.25	CHECKED BY H. HIRATA	DATE 2005/10/11					
		30 OVER	±0.3	APPROVED BY M. SASAO	DATE 2005/10/11	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-501912-002			SHEET NO. 2 OF 4	
		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						



SECT. X-X

SECT. Y-Y

24mm幅キャリアテープ

24	25.5	12.4	14.6	501912-4190	41
		11.8	14.0	501912-3990	39
		11.2	13.4	501912-3790	37
		10.6	12.8	501912-3590	35
		10.0	12.2	501912-3390	33
		8.2	10.4	501912-2790	27
		7.6	9.8	501912-2590	25
		7.0	9.2	501912-2390	23
		6.4	8.6	501912-2190	21
キャリアテープ幅 CARRIER TAPE WIDTH	C	(B)	(A)	製品番号 MATERIAL No.	極数 Ck+
			501912-xx90	MODEL No.	

REVISED	EC NO: J2008-3324	DRWN: HITAGAMI CHKD: K TAKAHASHI APPR: K TAKAHASHI	2008/03/25 2008/04/07 2008/04/07	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
					10 UNDER	±0.2	DRAWN BY M. HAYASHI	DATE 2005/10/11	TITLE EMBSTP PKG FOR 0.3 FPC CONN (HGT=1.8MM) GOLD PLATING			
					10 OVER 30 UNDER	±0.25	CHECKED BY H. HIRATA	DATE 2005/10/11				
					30 OVER	±0.3	APPROVED BY M. SASAO	DATE 2005/10/11	 MOLEX INCORPORATED			
					ANGULAR ±3 °		MATERIAL NO.					
REV	T	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-501912-002		3 OF 4			
					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

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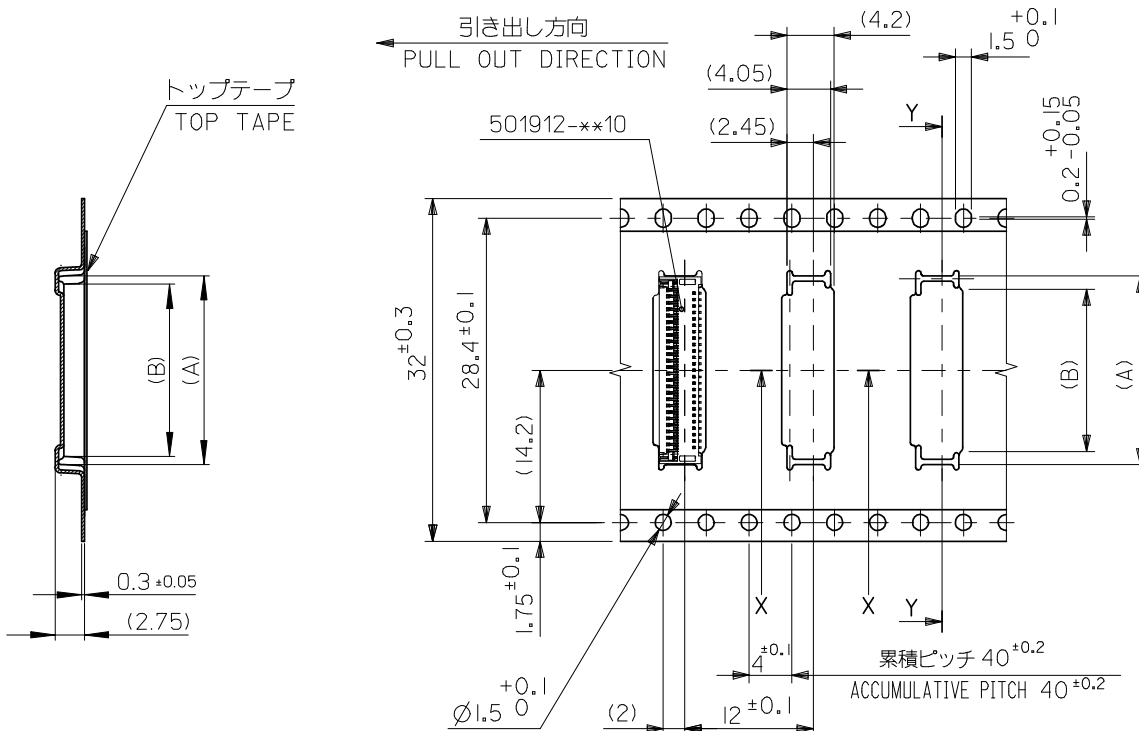
E

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C

B

A



32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

32	33.5	15.4	17.6	501912-5190	51
		14.2	16.4	501912-4790	47
		13.6	15.8	501912-4590	45
キャリアテープ幅 CARRIER TAPE WIDTH	C	(B)	(A)	製品番号 MATERIAL No.	極数 CK+
501912-**-90					MODEL No.

REVISED EC NO: J2008-3324 DRAWN: HTAGAMI 2008/03/25 CHKD: KITAKAHASHI 2008/04/07 APPR: KITAKAHASHI 2008/04/07	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				DRAWN BY M. HAYASHI		DATE 2005/10/11	TITLE EMBSTP PKG FOR 0.3 FPC CONN (HGT=1.8MM) GOLD PLATING				
		10 UNDER		±0.2	CHECKED BY H. HIRATA						DATE 2005/10/11
		10 OVER 30 UNDER		±0.25	APPROVED BY M. SASAO		DATE 2005/10/11	MOLEX INCORPORATED			
		30 OVER		±0.3	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-501912-002				
		ANGULAR ±3 °									
	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				