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Part Number: [0514410872](#)
Status: **Active**
Description: 0.50mm (.020") Pitch Easy-On™ Type FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 1.10mm (.043") Mated Height, 8 Circuits,Lead-free, Gold Contact Plating

Documents:

[3D Model](#) [Product Specification PS-51441-006 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family FFC/FPC Connectors
Series [51441](#)
Product Name Easy-On™

Physical

Circuits (Loaded) 8
Circuits (maximum) 8
Color - Resin Black, Natural
Contact Position Bottom
Durability (mating cycles max) 20
Entry Angle 90° Angle
Mated Height (in) 0.043 In
Mated Height (mm) 1.10 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
PCB Locator No
PCB Retention None
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 No
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

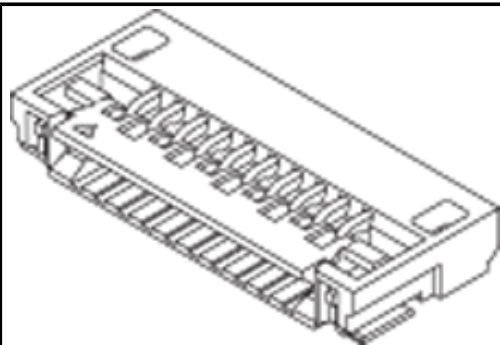
Electrical

Current - Maximum per Contact 0.5A
Voltage - Maximum 50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Product Specification PS-51441-006, RPS-51441-021, RPS-51441-030
Sales Drawing SD-51441-012, SD-51441-013



Series

image - Reference only

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

[51441Series](#)

This document was generated on 04/15/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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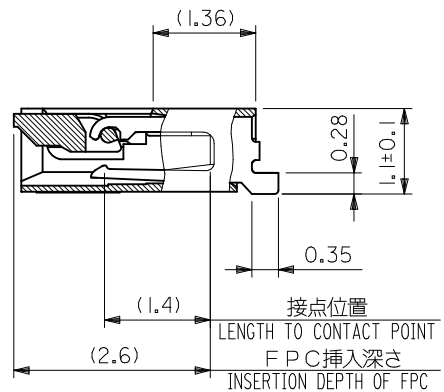
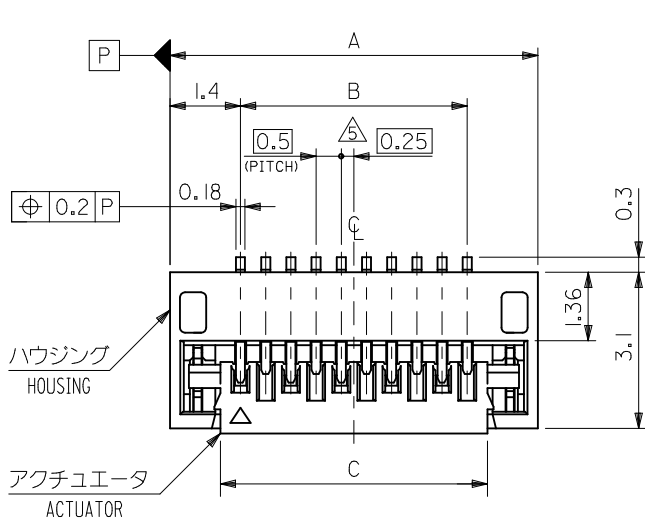
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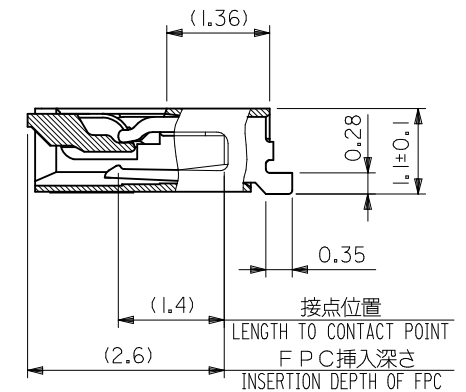
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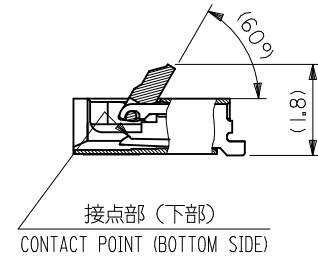
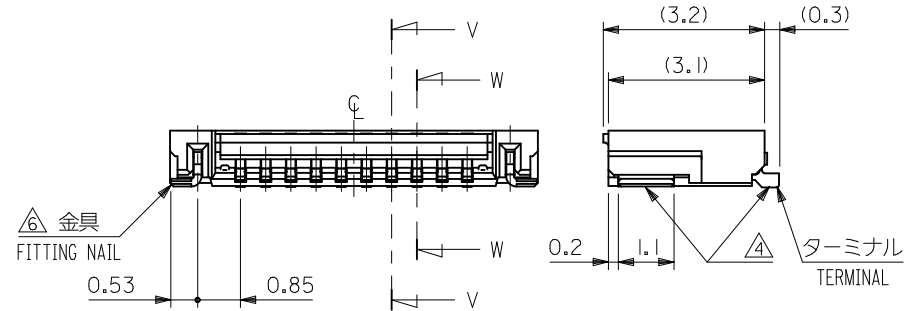
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断面 V-V 奇数極 (ODD CKT)
SECT. V-V



断面 W-W 偶数極 (EVEN CKT)
SECT. W-W



(アクチュエータが開いた状態)
(WHEN ACTUATOR IS OPENED)

12.3	11.5	14.3	51441-2472	24
11.3	10.5	13.3	51441-2272	22
10.3	9.5	12.3	51441-2072	20
6.3	5.5	8.3	51441-1272	12
5.8	5.0	7.8	51441-1172	11
5.3	4.5	7.3	51441-1072	10
4.3	3.5	6.3	51441-0872	8
C	B	A	EMBOSSSED TAPE	極数
			ORDER No. オーダー番号	CIRCUIT
CONNECTOR SERIES NO. 51441-**28				

REVISED EC NO: J2010-1656 DRWN: TONO CHKD: HSHIMOTO APPR: KMORI KAWA G	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY M. NABEI	DATE ' 05/06/29	TITLE 0.5 FPC CONN. (E/O) HSG ASSY BTM CONT(H=1.1)				
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOYODA	DATE ' 05/06/29					
		30 OVER	± 0.3	APPROVED BY N. UKITA	DATE ' 05/06/29	MOLEX MOLEX INCORPORATED				
		ANGULAR	± 3 °	MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-51441-012		1 OF 2		
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

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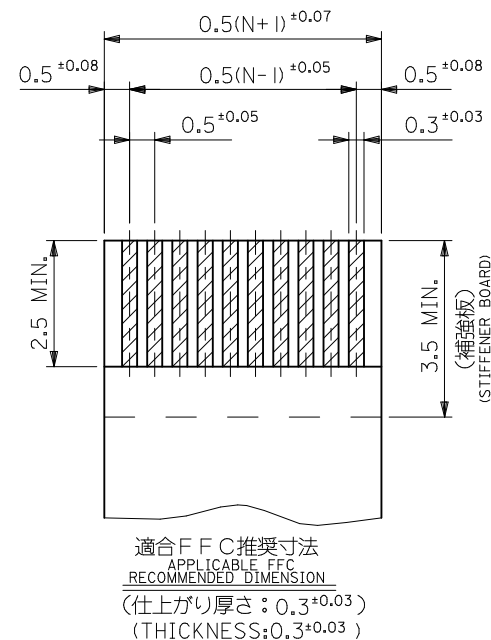
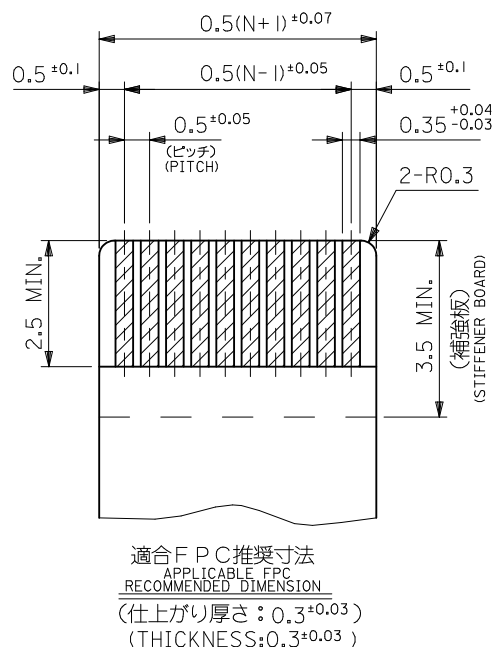
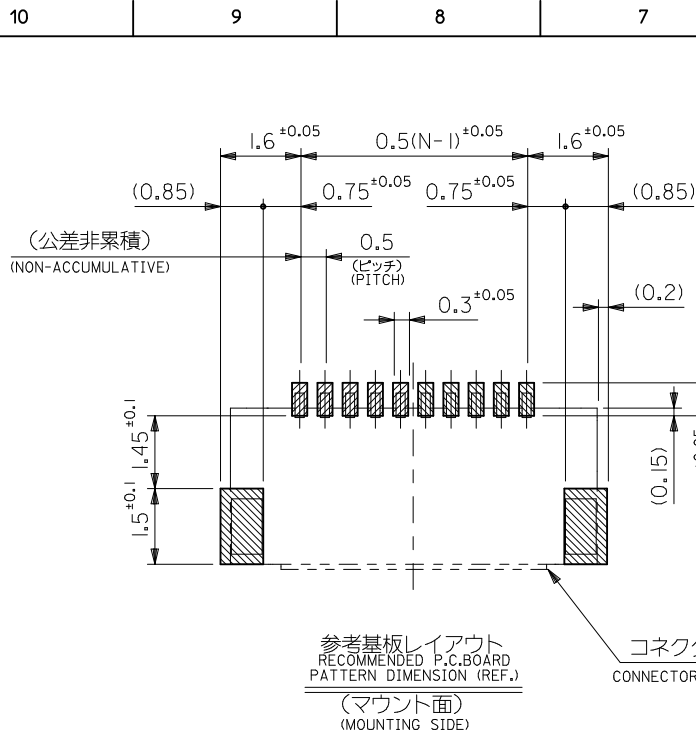
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注記 NOTES

1. 使用材料 MATERIAL

ハウジング : 液晶ポリマー ガラス充填、UL94V-0 (ベージュ)
HOUSING LIQUID CRYSTAL POLYMER GLASS FILLED, UL94V-0(BEIGE)
アクチュエータ : ポリフェニレンサルファイド ガラス充填、UL94V-0 (黒)
ACTUATOR POLYPHENYLENE SULFIDE GLASS FILLED, UL94V-0(BLACK)
ターミナル : リン青銅 (t=0.18)
TERMINAL PHOSPOR BRONZE
金具 : リン青銅 (t=0.15)
FITTING NAIL PHOSPOR BRONZE

2. メッキ仕様 PLATING

ターミナル TERMINAL
ニッケル下地金メッキ
GOLD OVER NICKEL PLATING
金具 FITTING NAIL
ニッケル下地金メッキ
TIN OVER NICKEL PLATING

3. エンボステープ梱包時は、アクチュエータが閉じた状態とする。

IN THE PACKAGE, ACTUATOR OF PART NO.51441-**-11 SHOULD BE CLOSED.

△ソルダーテール及び金具の平坦度は、0.1以下。

SOLDER TAIL AND FITTING NAIL COPLANARITY TO BE 0.1 MAXIMUM.

△偶数極に適用。

APPLY FOR EVEN CIRCUIT.

△パターンはくり止め用金具

FITTING NAIL FOR PREVENTION OF PEELING OF PCB PATTERN.

7. 本製品は 51441-**-29 の部分金メッキ品である。

THIS PRODUCT IS SELECTIVE GOLD OF 51441-**-29.

8. ELV AND RoHS COMPLIANT.

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マイクロメートルまたは50マイクロメートルを推奨いたします。

ABOUT FPC/FFC

RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.

RECOMMENDED CONDUCTOR SPEC :

THICKNESS OF SOFT COPPER FOIL : 35 MICROMETER OR 50 MICROMETER

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。

ABOUT FPC

RECOMMENDED MATERIAL :

STIFFENER FILM : POLYIMIDE

BONDING AGENT : THERMOSETTING BONDING AGENT

REVISED EC NO.: J2010-1656 DWG#: TONO CHKD: HISHI MOTAMA APPR: KMORI KAWA	2010/02/15 2010/02/15 2010/02/15	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
			10 UNDER	± 0.2	DRAWN BY M. NABEI	DATE '05/06/29	TITLE 0.5 FPC CONN. (E/O) HSG ASSY BTM CONT(H=1.1)			
			10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOYODA	DATE '05/06/29				
			30 OVER	± 0.3	APPROVED BY N. UKITA	DATE '05/06/29		 MOLEX INCORPORATED		
			ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO.
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-51441-012			2 OF 2
			REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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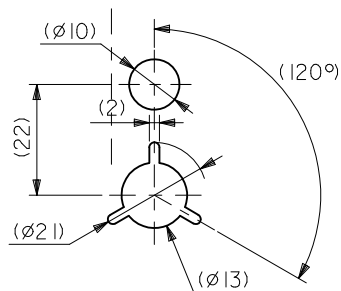
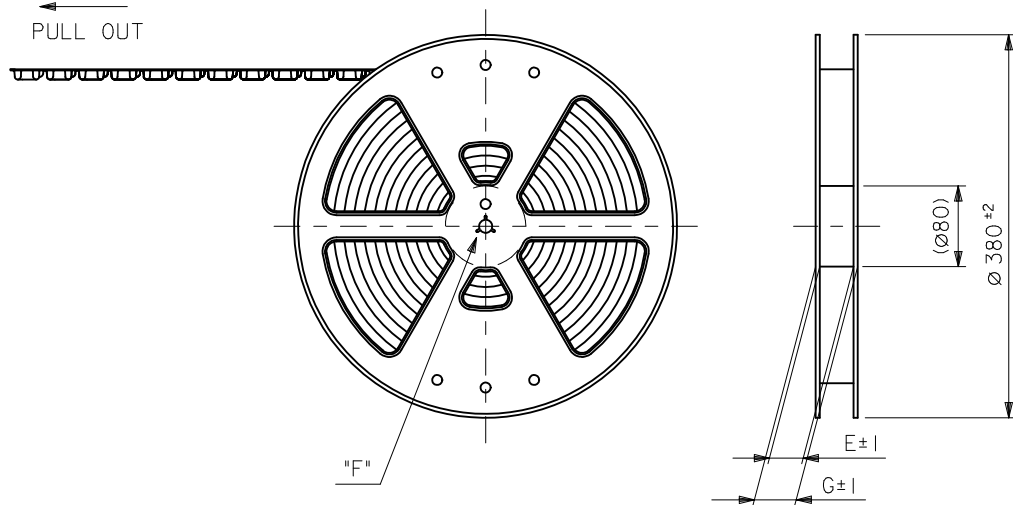
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引き出し方向

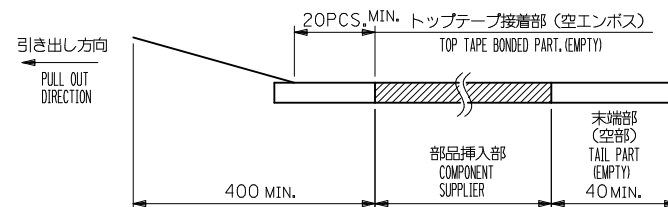
PULL OUT



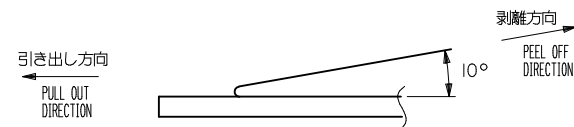
DETAIL "F"

注記 NOTES

- 製品詳細寸法については、図面 SD-51441-012 を参照下さい。
RE DETAILED DIMENSION, SEE SD-51441-012.
- 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 : 0.1~1.3N (10~130gf)
(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 : 0.1~1.3N (10~130gf)
(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 (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>
POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>
- 本製品は 51441-**-71 の部分金メッキ品である。
THIS PRODUCT IS SELECTIVE GOLD OF 51441-**-71.
- ELV AND RoHS COMPLIANT.

REVISED EC NO: J2010-1656 DRWN: TONO CHKD: SHIMOMIYAMA APPR: KIMORI KAWA	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY M. NABEI	DATE '05/06/29	TITLE EMBSTP PKG FOR 0.5 FPC CONN E/O BTM CONT				
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOYODA	DATE '05/06/29					
		30 OVER	± 0.3	APPROVED BY N. UKITA	DATE '05/06/29	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 2 OR 3		SD-51441-013		1 OF 3		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

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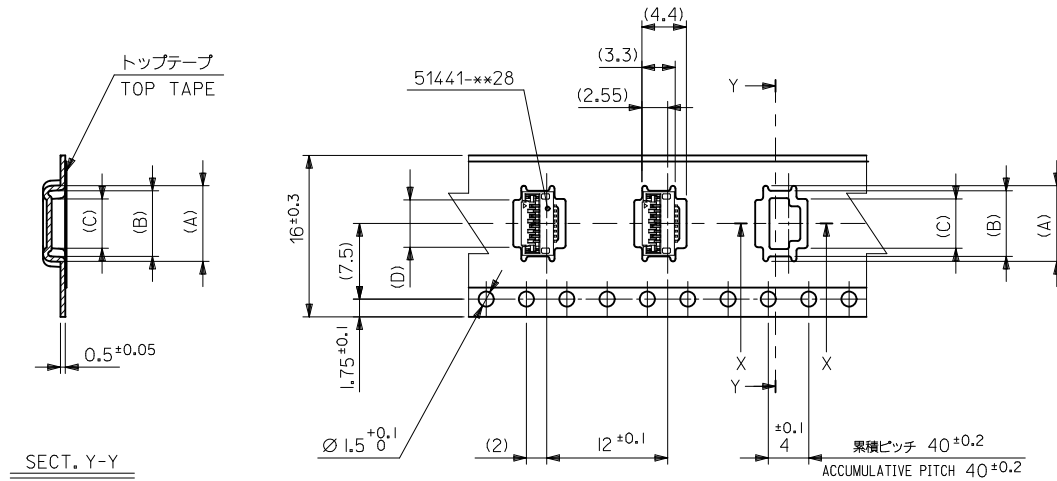
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引き出し方向
PULL OUT DIRECTION



SECT. Y-Y

SECT. X-X

16 mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

16	21.4	17.4	4.7	4.89	6.5	7.5	51441-0872	8
キャリアテープ幅 CARRIER TAPE WIDTH	G	E	(D)	(C)	(B)	(A)	製品番号 MATERIAL NO.	種数 CIRCUIT

REVISED EC NO.: J2010-1656 DRWN: TONO CHKD: HSHIMOTOYAMA APPR: KMORIKAWA	2010/02/15 2010/02/15 2010/02/15	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
					MM ONLY		---	METRIC				
			10 UNDER	±0.2	DRAWN BY M. NABEI	DATE '05/06/29	TITLE EMBSTP PKG FOR 0.5 FPC CONN E/O BTM CONT		MOLEX INCORPORATED		SHEET NO. 2 OF 3	
			10 OVER 30 UNDER	±0.25	CHECKED BY K. TOYODA	DATE '05/06/29						
			30 OVER	±0.3	APPROVED BY N. UKITA	DATE '05/06/29	DOCUMENT NO. SD-51441-013					
			ANGULAR ±3 °		MATERIAL NO. SEE TABLE							
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									

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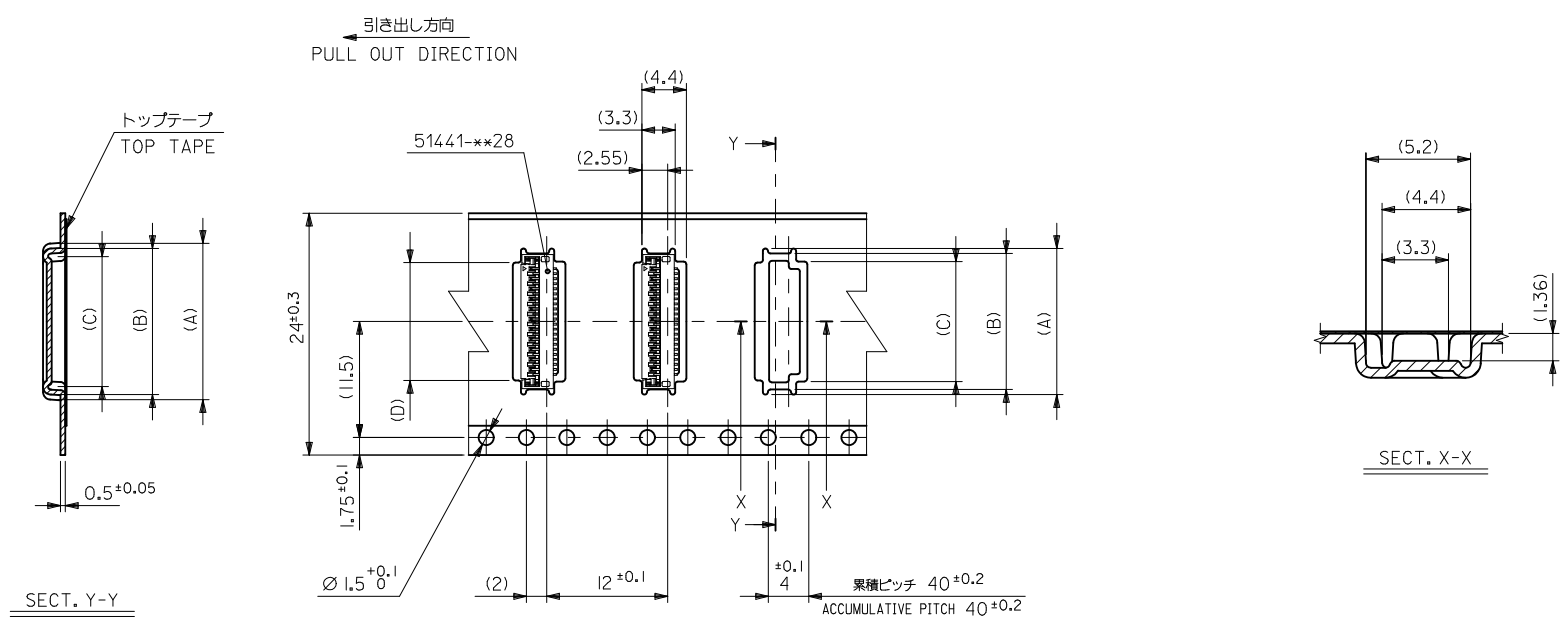
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24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

24	29.4	25.4	12.7	12.89	14.5	15.5	51441-2472	24
			11.7	11.89	13.5	14.5	51441-2272	22
			10.7	10.89	12.5	13.5	51441-2072	20
			6.7	6.89	8.5	9.5	51441-1272	12
			6.2	6.39	8.0	9.0	51441-1172	11
			5.7	5.89	7.5	8.5	51441-1072	10
キャリアテープ幅 CARRIER TAPE WIDTH	G	E	(D)	(C)	(B)	(A)	製品番号 MATERIAL NO.	極数 CIRCUIT

REVISED EC NO: J2010-1656 DRWN: TONO CHKD: SHIMOMIYAMA APPR: KMORI KAWA	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	MATERIAL NO.		THIRD ANGLE PROJECTION	
				MM ONLY		---	METRIC				
		10 UNDER	± 0.2	DRAWN BY M. NABEI	DATE '05/06/29	TITLE EMBSTP PKG FOR 0.5 FPC CONN E/O BTM CONT					
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOYODA	DATE '05/06/29						
		30 OVER	± 0.3	APPROVED BY N. UKITA	DATE '05/06/29	MOLEX INCORPORATED					
		ANGULAR ± 3 °		MATERIAL NO.							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-51441-013				3 OF 3	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											