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one company › a world of innovation

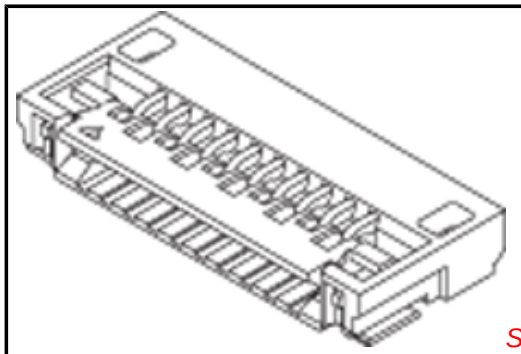
This document was generated on 04/15/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0514411072

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, 10 Circuits, Lead-free, Gold Contact Plating



Series image - Reference only

Documents:

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

General

Product Family	FFC/FPC Connectors
Series	51441
Product Name	Easy-On™

Physical

Circuits (Loaded)	10
Circuits (maximum)	10
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-51441-012, RPS-51441-021, RPS-51441-024, RPS-51441-025, RPS-51441-030

EU RoHS
ELV and RoHS Compliant

China RoHS

REACH SVHC
Not Reviewed

Halogen-Free Status
Not Reviewed

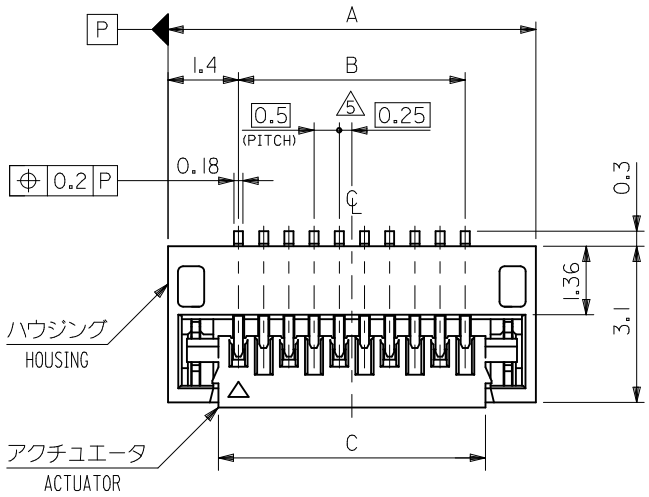
Need more information on product environmental compliance?

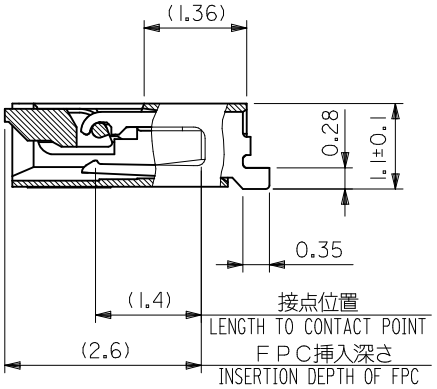
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

Please visit the Contact Us section for any non-product compliance questions.

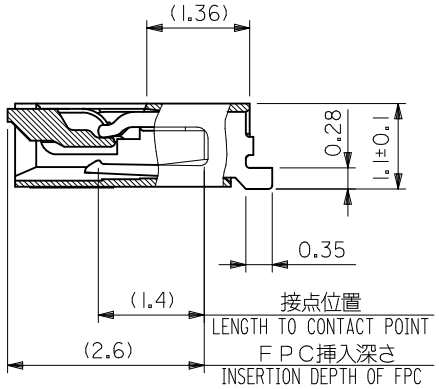
Search Parts in this Series
51441Series

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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

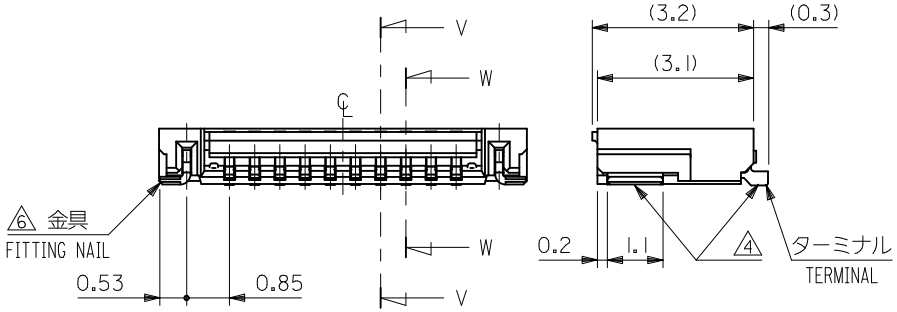


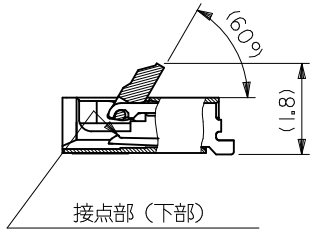


断面 V-V　奇数極
SECT. V-V　(ODD CKT)



断面 W-W　偶数極
SECT. W-W　(EVEN CKT)





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

C	B	A	EMBOSSED TAPE ORDER No. オーダー番号	極数 CIRCUIT
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

CONNECTOR SERIES NO. 51441-**28

REVISED
EC NO: J2010-1656　2010/02/15
DRWN:TONO　2010/02/15
CH'KD:HSHIMOYAMA　2010/02/15
APPR:KMORIKAWA　2010/02/15
DESCRIPTION
G
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 10:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: M.NABEI　DATE: '05/06/29
CHECKED BY: K.TOYODA　DATE: '05/06/29
APPROVED BY: N.UKITA　DATE: '05/06/29

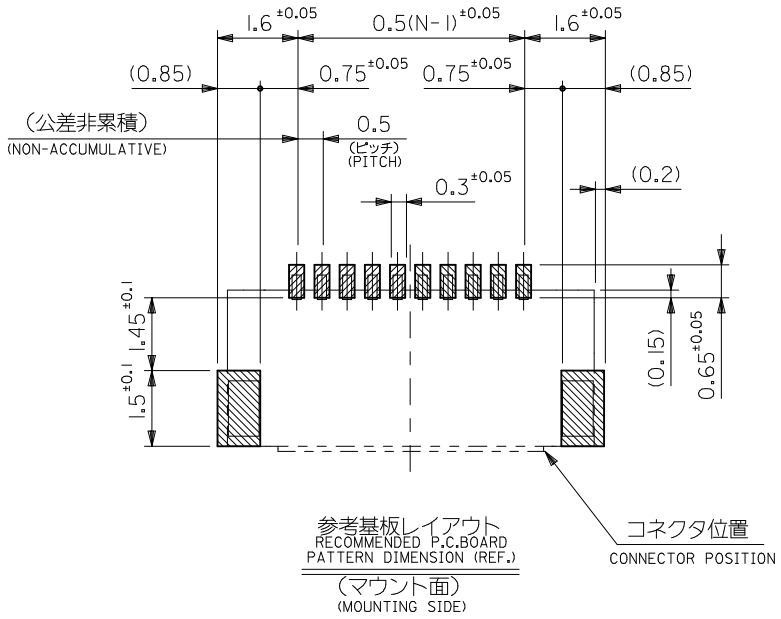
TITLE: 0.5 FPC CONN. (E/O) HSG ASSY BTM CONT(H=1.1)

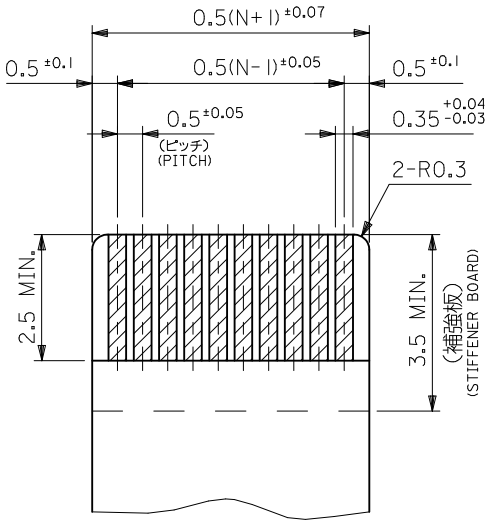
MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-51441-012
SHEET NO.: 1 OF 2

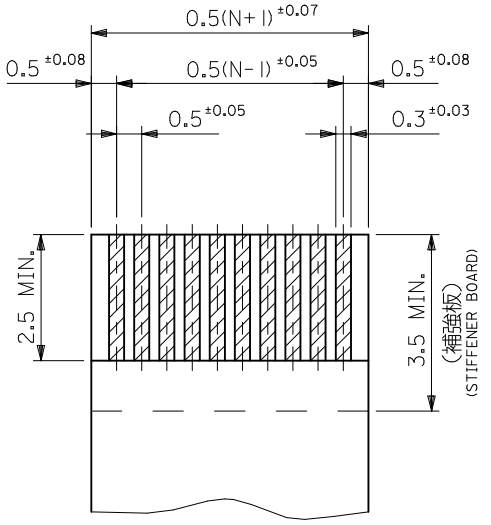
SIZE A3

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適合ＦＰＣ推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION
(仕上がり厚さ：0.3 ±0.03)
(THICKNESS:0.3 ±0.03)



適合ＦＦＣ推奨寸法
APPLICABLE FFC
RECOMMENDED DIMENSION
(仕上がり厚さ：0.3 ±0.03)
(THICKNESS:0.3 ±0.03)

注記 NOTES

1. 使用材料 MATERIAL

ハウジング HOUSING	：液晶ポリマー ガラス充填、ＵＬ９４Ｖ－０（ベージュ） LIQUID CRYSTAL POLYMER GLASS FILLED, UL94V-0(BEIGE)
アクチュエータ ACTUATOR	：ポリフェニレンサルファイド ガラス充填、ＵＬ９４Ｖ－０（黒） POLYPHENYLENE SULFIDE GLASS FILLED, UL94V-0(BLACK)
ターミナル TERMINAL	：リン青銅（ｔ＝０．１８） PHOSPOR BRONZE
金具 FITTING NAIL	：リン青銅（ｔ＝０．１５） 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
   ニッケル下地錫メッキ
   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.

4. 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.

5. 偶数極に適用。
   APPLY FOR EVEN CIRCUIT.

6. 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マイクロメーターまたは５０マイクロメーターを推奨いたします。
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

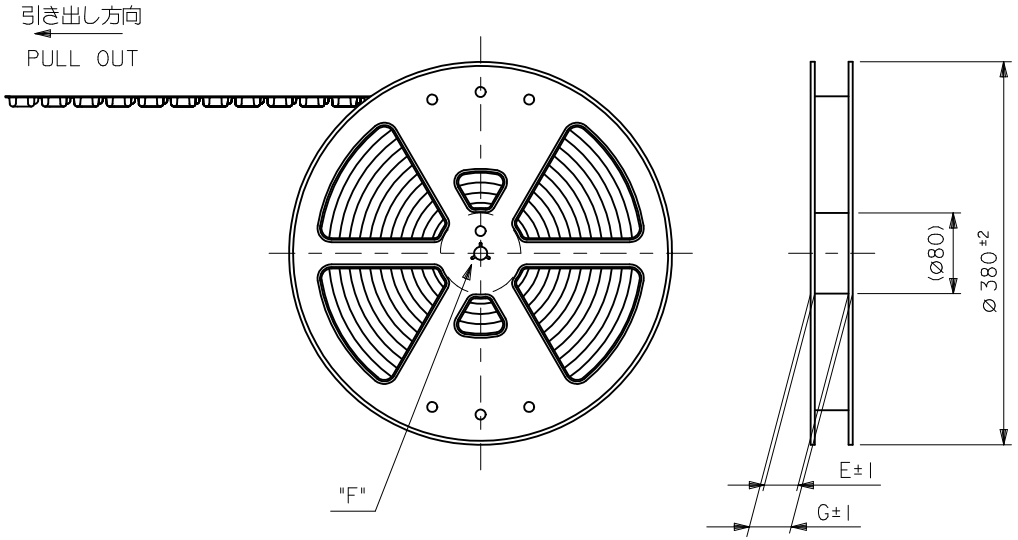
REVISED	EC NO:	DRWN	CH'KD	APPR	DESCRIPTION	REV
	J2010-1656	TONO	HSHIMOYAMA	KMORIKAWA		
	2010/02/15	2010/02/15	2010/02/15	2010/02/15		G

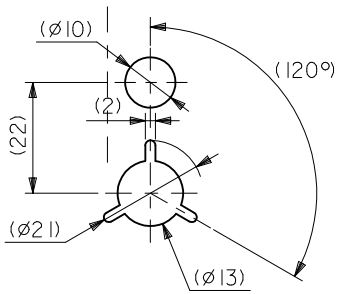
GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY	SCALE: 10:1	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: M.NABEI DATE: '05/06/29	TITLE: 0.5 FPC CONN. (E/O) HSG ASSY BTM CONT(H=1.1)		
CHECKED BY: K.TOYODA DATE: '05/06/29			
APPROVED BY: N.UKITA DATE: '05/06/29	MOLEX INCORPORATED		
MATERIAL NO.: SEE SHEET 1	DOCUMENT NO.: SD-51441-012	SHEET NO.: 2 OF 2	
SIZE: A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

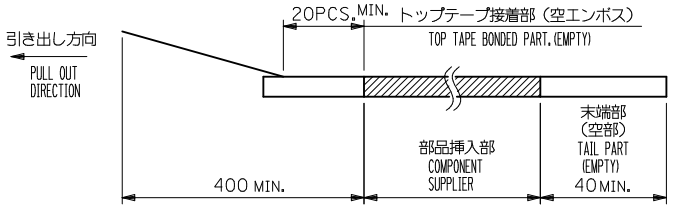




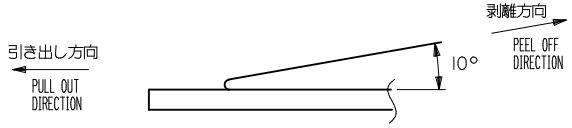
DETAIL "F"

注記 NOTES

1. 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.
2. 梱包数量：3000個／リール
   NUMBER OF CONNECTORS ：3000PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH



4. 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.



5. 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>
6. 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.
7. ELV AND RoHS COMPLIANT.

REVISED
EC NO: J2010-1656 2010/02/15
DRWN:TONO 2010/02/15
CH'KD:HSHIMOYAMA 2010/02/15
APPR:KMORIKAWA 2010/02/15
DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

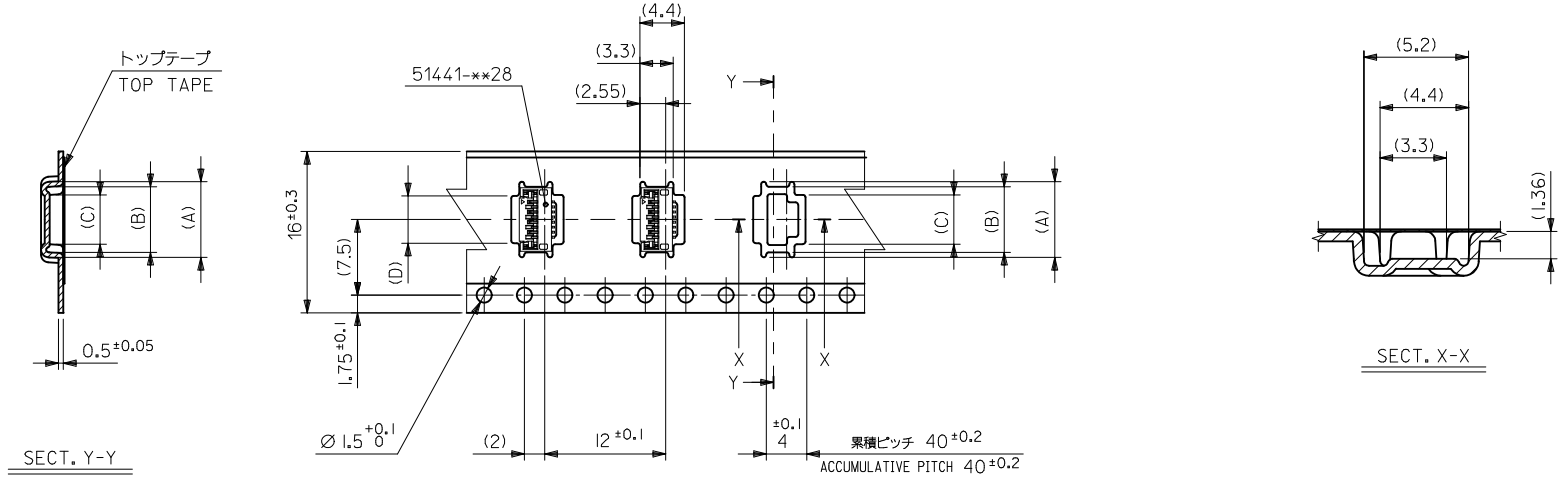
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR ±3 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	---
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	M.NABEI
DATE	'05/06/29
CHECKED BY	K.TOYODA
DATE	'05/06/29
APPROVED BY	N.UKITA
DATE	'05/06/29
MATERIAL NO.	SEE SHEET 2 OR 3
TITLE	EMBSTP PKG FOR 0.5 FPC CONN E/O BTM CONT
	MOLEX INCORPORATED
DOCUMENT NO.	SD-51441-013
SHEET NO.	1 OF 3
SIZE	A3

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引き出し方向
PULL OUT DIRECTION



16 mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

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

REVISED
EC NO: J2010-1656 2010/02/15
DRWN:TONO 2010/02/15
CH'KD:HSHIMOYAMA 2010/02/15
APPR:KMORIKAWA 2010/02/15
DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR ±3 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: M.NABEI DATE: '05/06/29
CHECKED BY: K.TOYODA DATE: '05/06/29
APPROVED BY: N.UKITA DATE: '05/06/29
MATERIAL NO.: SEE TABLE

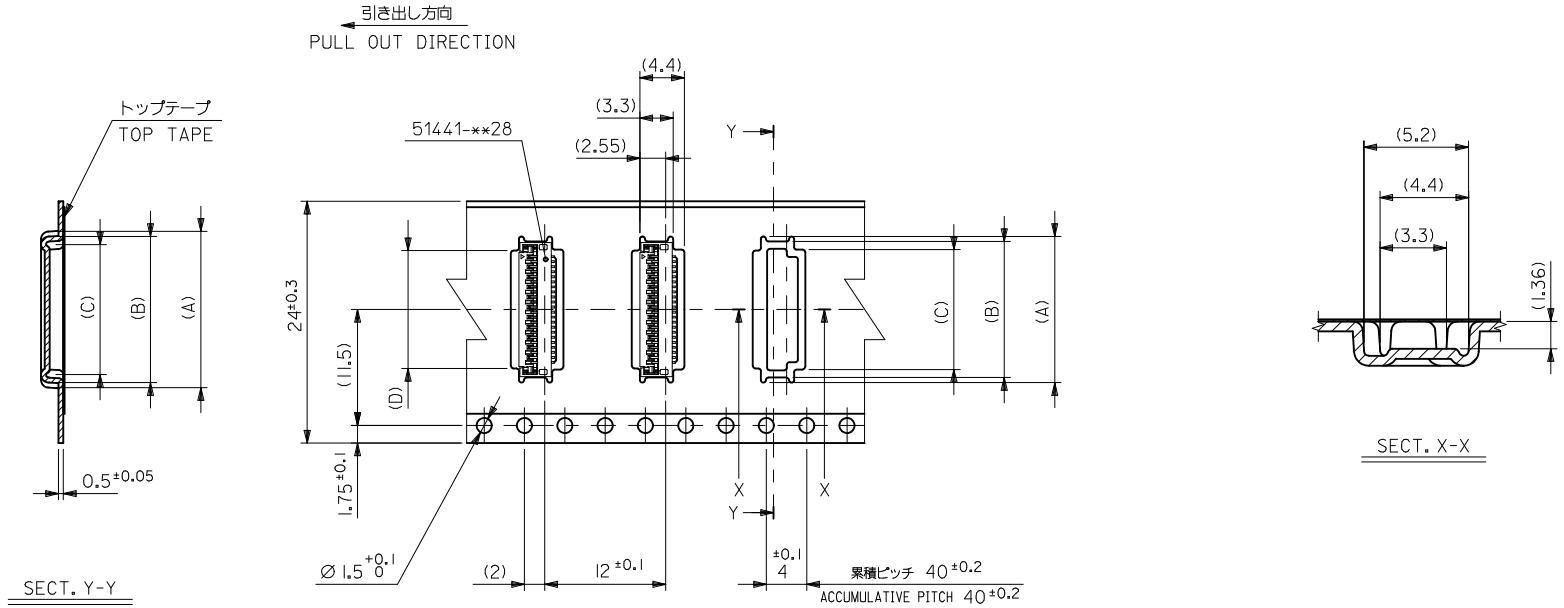
TITLE: EMBSTP PKG FOR 0.5 FPC CONN E/O BTM CONT

molex MOLEX INCORPORATED

DOCUMENT NO.: SD-51441-013
SHEET NO.: 2 OF 3

SIZE A3

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24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

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
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

REVISED
EC NO: J2010-1656 2010/02/15
DRWN:TONO 2010/02/15
CH'KD:HSHIMOYAMA 2010/02/15
APPR:KMORIKAWA 2010/02/15
DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR ±3 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: M.NABEI DATE: '05/06/29
CHECKED BY: K.TOYODA DATE: '05/06/29
APPROVED BY: N.UKITA DATE: '05/06/29

TITLE: EMBSTP PKG FOR 0.5 FPC CONN E/O BTM CONT

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-51441-013
SHEET NO.: 3 OF 3

SIZE A3

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

OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

AVIC JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

Телефон: 8 (812) 309-75-97 (многоканальный)
Факс: 8 (812) 320-03-32
Электронная почта: ocean@oceanchips.ru
Web: http://oceanchips.ru/
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А