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Part Number: [0524372371](#)
Status: **Active**
Overview:
Description: 0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 23 Circuits, Gold Contact Plating

Agency Certification

UL E29179

General

Product Family FFC/FPC Connectors
Series 52437
Overview ffc_fpc_smt
Product Name N/A

Physical

Circuits (Loaded) 23
Color - Resin Natural
Contact Position Bottom
Durability (mating cycles max) 20
Entry Angle 90° Angle
Flammability 94V-0
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
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) N/A
Temperature Range - Operating -40°C to +85°C
Termination Interface: Style Surface Mount
Wire/Cable Type FFC/FPC

Electrical

Current - Maximum per Contact 0.5A
Voltage - Maximum 50V

Material Info

Reference - Drawing Numbers

Product Specification PS-52437-027, RPS-52437-040, RPS-52437-041, RPS-52437-042, RPS-52437-043, RPS-52437-045, RPS-52437-046
Sales Drawing SD-52437-019, SD-52437-020

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

[52437Series](#)

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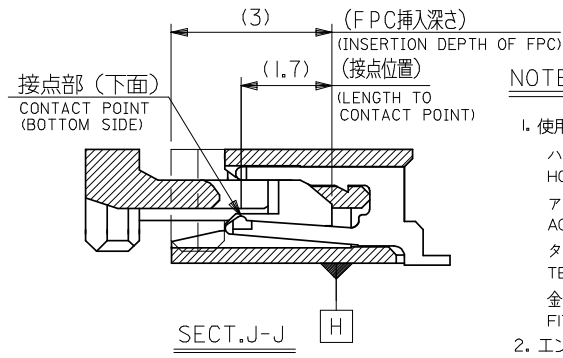
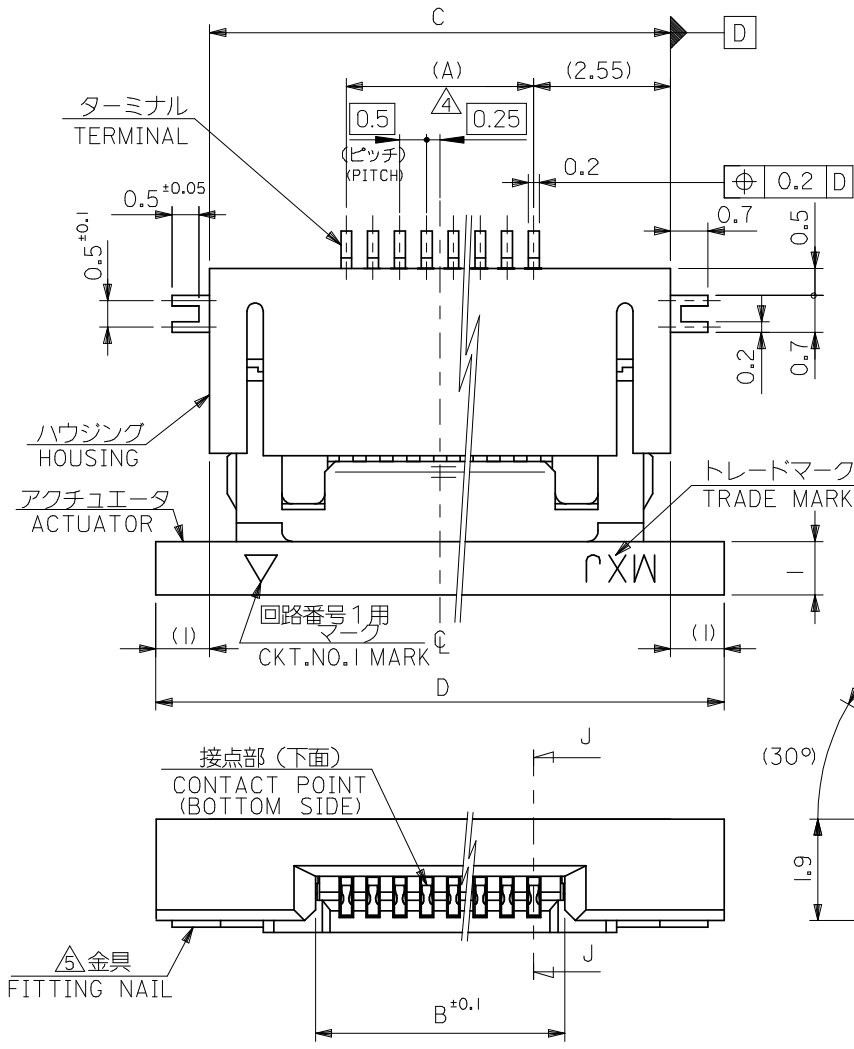
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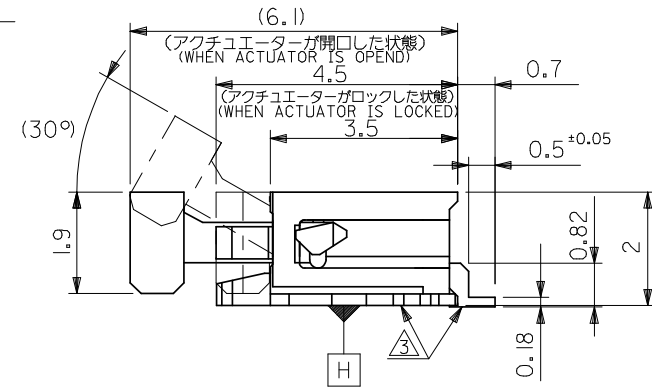
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NOTES

1. 使用材料 : MATERIAL
- ハウジング : 46ナイロン、UL94V-0
HOUSING : 46NYLON
 - アクチュエータ : PPS、UL94V-0
ACTUATOR
 - ターミナル : リン青銅、金メッキ (t=0.2)
TERMINAL : PHOS-BRO. GOLD PLATED
 - 金具 : リン青銅、錫メッキ (t=0.2)
FITTING NAIL : PHOS-BRO. TIN PLATED
2. エンボステープ梱包時は、アクチュエータがロックした状態とする。
IN THE PACKAGE, ACTUATOR OF PART NO.52437-**-26 SHOULD BE LOCKED.
3. ソルダータール半田付け面のズレ量、及び金具半田付け面のズレ量は、基準面 H に対し上方向 0.1 MAX. , 下方向 0.15 MAX. とする。
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM H
UPPER DIRECTION: 0.1 MAX. , LOWER DIRECTION: 0.15 MAX.
4. 偶数極に適用。
APPLY FOR EVEN CIRCUIT.
5. パターンはくり止め用金具。
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.
6. RO.3は、FPCの導体部にかからないこと。
RO.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.
7. 本製品は52437シリーズの鉛フリー品、金メッキ品である。
THIS PRODUCT IS LEAD FREE AND GOLD PLATED OF 52437 S SERIES.
8. ソルダータールの平坦度は、0.1 MAXIMUM とする。
SOLDER TAIL COPLANARITY IS 0.1 MAXIMUM.



MODEL NO. 52437-**-29

REVISED EC NO: J2008-4048 DRAWN:MABEI CHK'D:THARYAWA APPR:NUKITA	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
				MM ONLY		---	METRIC			
		10 UNDER	± 0.2	DRAWN BY	DATE	TITLE 0.5 FPC CONN.ZIF FOR SMT.RA (BOTTOM CONTACT) -LEAD FREE- MOLEX INCORPORATED				
		10 OVER 30 UNDER	± 0.25	CHECKED BY	DATE					
		30 OVER	± 0.3	APPROVED BY	DATE					
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 2		SD-52437-019					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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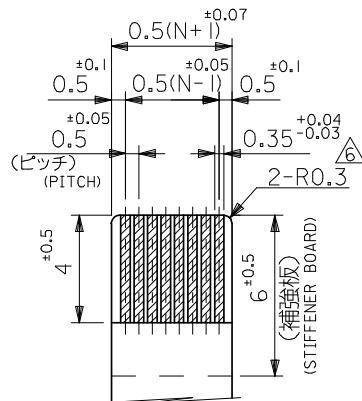
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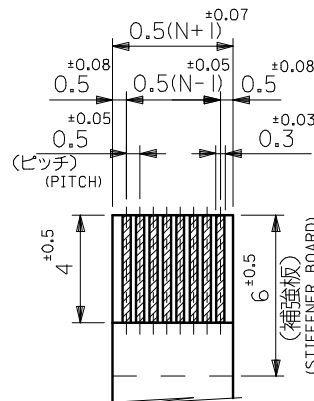


適合FPC推奨寸法

APPLICABLE FPC
RECOMMENDED DIMENSION.

(仕上がり厚さ: 0.3 ±0.05)

(THICKNESS: 0.3 ±0.05)



適合FFC推奨寸法

APPLICABLE FFC
RECOMMENDED DIMENSION.

(仕上がり厚さ: 0.3 ±0.05)

(THICKNESS: 0.3 ±0.05)

FPCについて:

打抜き方向は導体側から補強板側を推奨致します。

補強フィルム材質はポリイミドを推奨致します。

接着剤は熱硬化接着剤を推奨致します。

ABOUT FPC:

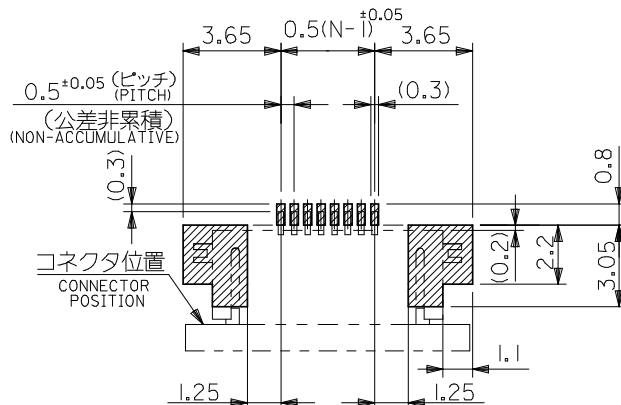
RECOMMENDED PUNCHER DIRECTION:

FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.

RECOMMENDED MATERIAL:

STIFFENER FILM: POLYIMIDE

BONDING AGENT: THERMOSETTING BONDING AGENT



参考基板レイアウト

(マウント面)

RECOMMENDED P.C.B.O.A.R.D.
PATTERN DIMENSION (REF.)
(MOUNTING SIDE)

21.6	19.6	15.65	14.5	52437-3071	52437-3029	30
21.1	19.1	15.15	14.0	52437-2971	52437-2929	29
20.6	18.6	14.65	13.5	52437-2871	52437-2829	28
20.1	18.1	14.15	13.0	52437-2771	52437-2729	27
19.6	17.6	13.65	12.5	52437-2671	52437-2629	26
19.1	17.1	13.15	12.0	52437-2571	52437-2529	25
18.6	16.6	12.65	11.5	52437-2471	52437-2429	24
18.1	16.1	12.15	11.0	52437-2371	52437-2329	23
17.6	15.6	11.65	10.5	52437-2271	52437-2229	22
17.1	15.1	11.15	10.0	52437-2171	52437-2129	21
16.6	14.6	10.65	9.5	52437-2071	52437-2029	20
13.6	11.6	7.65	6.5	52437-1471	52437-1429	14
12.6	10.6	6.65	5.5	52437-1271	52437-1229	12
D	C	B	(A)	EMBOSSD TAPE	MATERIAL NO.	極数
				ORDER No. オーダー番号	MODEL NO. 52437-**29	CKT.

REVISED EC NO: J2008-4048 DRWN:WABEI CHK'D: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 M.UMEDA	DATE 2004/12/08	TITLE 0.5 FPC CONN.ZIF FOR SMT.RA (BOTTOM CONTACT) -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	CHECKED BY K.TOYOTA	DATE 2004/12/08					
		30 OVER	± 0.3	APPROVED BY N.UKITA	DATE 2004/12/08	molex MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52437-019		2 OF 2		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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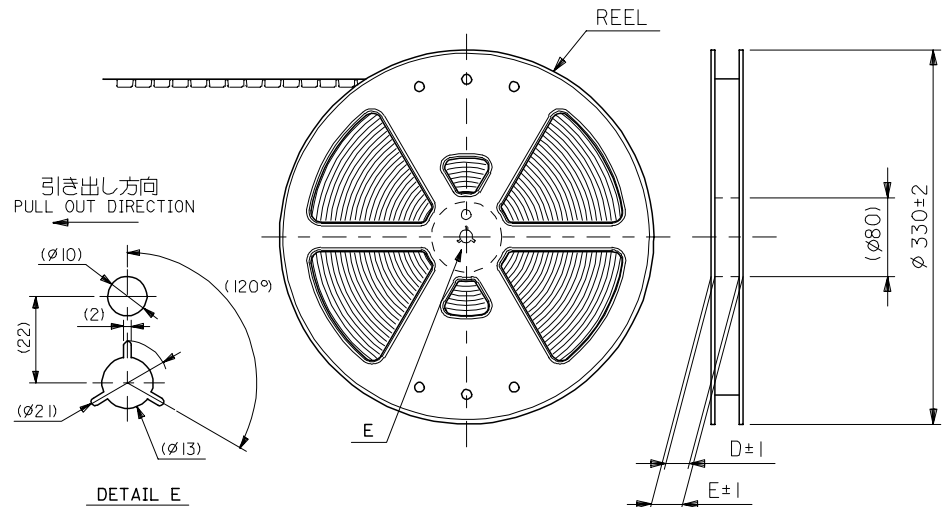
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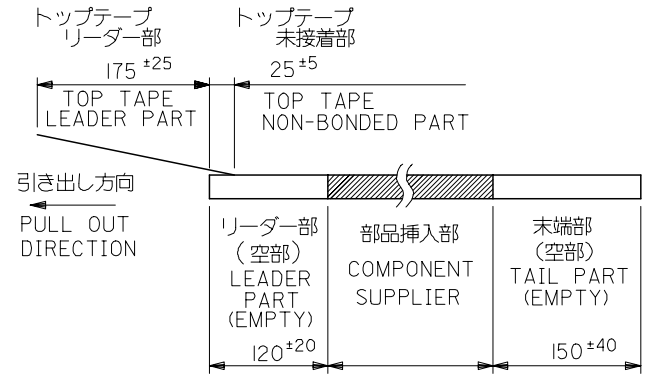
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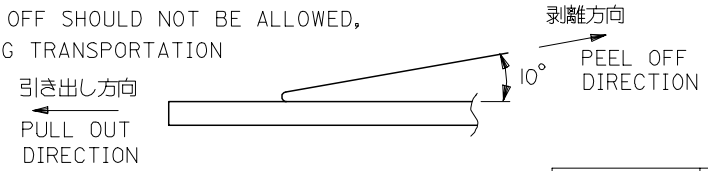
5. 材料 (MATERIAL)
キャリアテープ (CARRIER TAPE) : ポリプロピレン (POLYPROPYLENE)
トップテープ (TOPTAPE) : PET, PE, PEF
リール (REEL) : ポリスチレン (PS) <リサイクル材を含む>
POLYSTYREN (PS) <RECYCLE MATERIAL CONTAINED>
6. 本製品は 52437-***9I の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 52437-***9I.

注記 NOTES

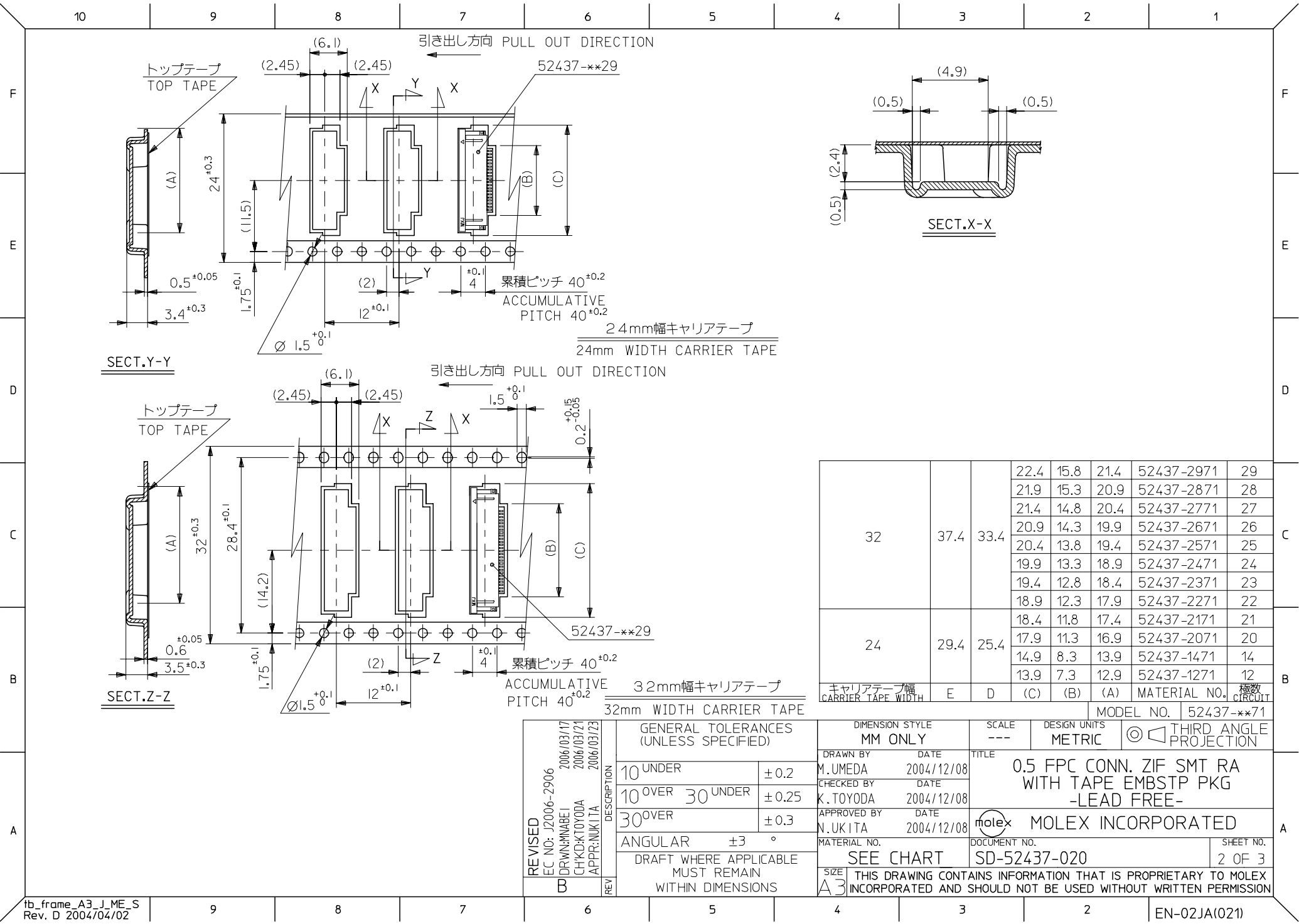
- 製品番号52437-***29の梱包状態はアクチュエータがロックした状態とする。
製品の詳細寸法については図面SD-52437-019を参照下さい。
IN THE PACKAGE, ACTUATOR OF PART NO. 52437-***29 SHOULD BE LOCKED
RE DETAILED DIMENSIONS, SEE SD-52437-019.
- 梱包数量 : 1000個/リール
NUMBER OF CONNECTORS: 1000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



4. トップテープの剥離強度 : (剥離方向は下図参照)
0. 1N ~ 1.3N {10gf ~ 130gf} 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事。)
PEELING OFF FORCE OF TOP TAPE
0. IN ~ 1.3N {10gf ~ 130gf} (PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT
PEEL OFF SHOULD NOT BE ALLOWED,
DURING TRANSPORTATION

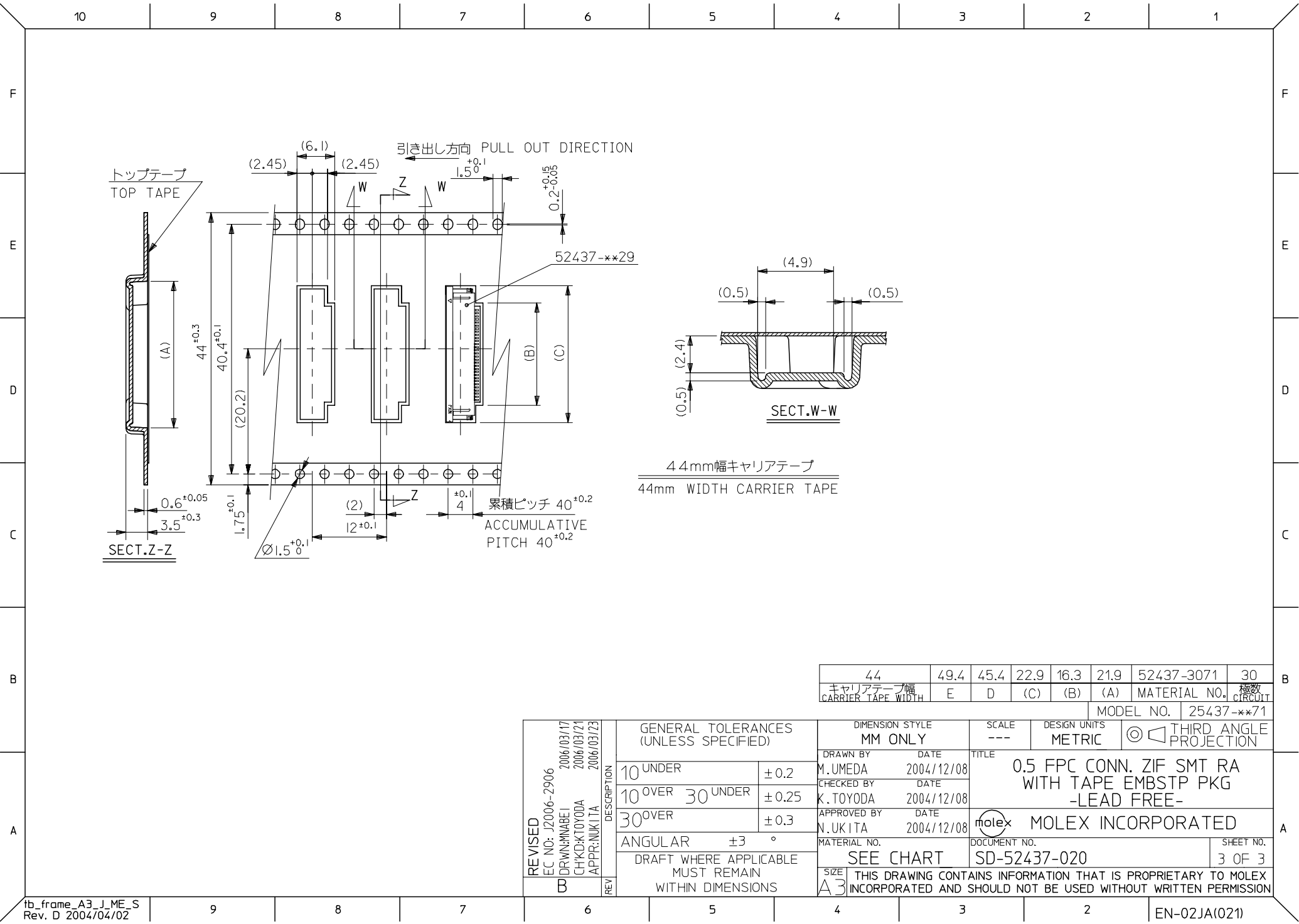


REVISED EC NO: J2006-2906 DRWN:MABE1 2006/03/17 CHKD:KTOYODA 2006/03/21 APPR:NUKITA 2006/03/23	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	MODEL NO. 52437-020			
				MM ONLY		---	METRIC	THIRD ANGLE PROJECTION			
		10 UNDER	±0.2	DRAWN BY M.UMEDA	DATE 2004-12/08	TITLE 0.5 FPC CONN. ZIF SMT RA WITH TAPE EMBSTP PKG -LEAD FREE-					
		10 OVER 30 UNDER	±0.25	CHECKED BY K.TOYODA	DATE 2004-12/08						
	30 OVER	±0.3	APPROVED BY N.UKITA	DATE 2004-12/08	MOLEX INCORPORATED						
	ANGULAR ±3 °	MATERIAL NO.		DOCUMENT NO.		SHEET NO. 1 OF 3					
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-52437-020						
REV				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



32	37.4	33.4	22.4	15.8	21.4	52437-2971	29		
			21.9	15.3	20.9	52437-2871	28		
			21.4	14.8	20.4	52437-2771	27		
			20.9	14.3	19.9	52437-2671	26		
			20.4	13.8	19.4	52437-2571	25		
			19.9	13.3	18.9	52437-2471	24		
			19.4	12.8	18.4	52437-2371	23		
			18.9	12.3	17.9	52437-2271	22		
24	29.4	25.4	18.4	11.8	17.4	52437-2171	21		
			17.9	11.3	16.9	52437-2071	20		
			14.9	8.3	13.9	52437-1471	14		
			13.9	7.3	12.9	52437-1271	12		
キャリアテープ幅 CARRIER TAPE WIDTH			E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CIRCUIT

REVISED EC NO: J2006-2906 DRWN:MABE CHKD:KTOYODA APPR:NUKITA B	DESCRIPTION 2006/03/17 2006/03/21 2006/03/23	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY M.UMEDA	DATE 2004/12/08	TITLE 0.5 FPC CONN. ZIF SMT RA WITH TAPE EMBSTP PKG -LEAD FREE-				
		10 OVER 30 UNDER	±0.25	CHECKED BY K.TOYODA	DATE 2004/12/08					
		30 OVER	±0.3	APPROVED BY N.UKITA	DATE 2004/12/08	MOLEX MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-52437-020		2 OF 3		
		REV		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



44	49.4	45.4	22.9	16.3	21.9	52437-3071	30
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CIRCUIT
MODEL NO.						25437-xx71	

REVISED EC NO: J2006-2906 DRWN: NABEJ CHKD: KTOYODA APPR: NUKITA B	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY M.UMEDA	DATE 2004/12/08	TITLE 0.5 FPC CONN. ZIF SMT RA WITH TAPE EMBSTP PKG -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOYODA	DATE 2004/12/08					
		30 OVER	± 0.3	APPROVED BY N. UKITA	DATE 2004/12/08	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-52437-020		3 OF 3		
			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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