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Part Number: [0541670208](#)
Status: **Active**
Description: 0.50mm (.020") Pitch SlimStack™ Receptacle, Surface Mount, Dual Row, Vertical, 3.00 and 4.00mm (.118" and .157") Stacking Heights, Lower Circuit Size Version, Black, 20 Circuits

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Product Specification PS-52991-003 \(PDF\)](#)
[Product Specification PS-54167-002 \(PDF\)](#)
[Product Specification PS-54167-003 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General	
Product Family	PCB Receptacles
Series	54167
Application	Board-to-Board
Product Name	SlimStack™
Physical	
Circuits (Loaded)	20
Glow-Wire Compliant	No
Mated Height (in)	0.118 In, 0.157 In
Mated Height (mm)	3.00 mm, 4.00 mm
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Number of Rows	2
Orientation	Vertical
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)	10
Plating min: Termination (µm)	0.25
Polarized to PCB	No
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Surface Mount

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

Material Info

Reference - Drawing Numbers

Product Specification	PS-52991-003, PS-54167-002, PS-54167-003, RPS-52991-009, RPS-52991-014, RPS-52991-019
Sales Drawing	SD-54167-001, SD-54167-002

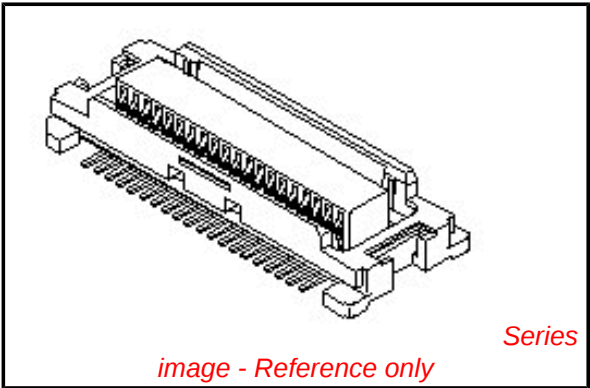


image - Reference only

Series

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Halogen-Free

China RoHS



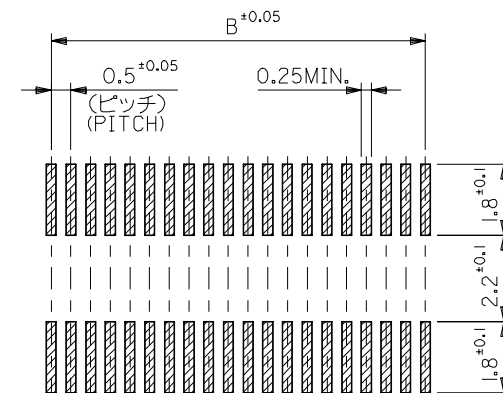
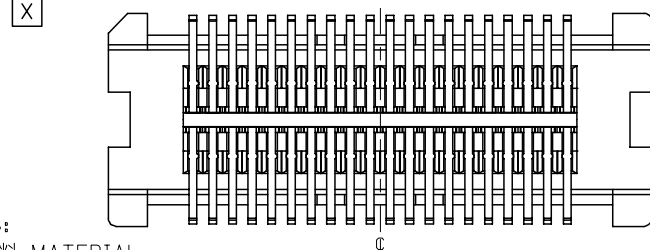
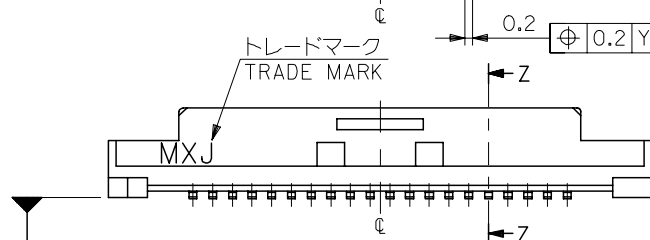
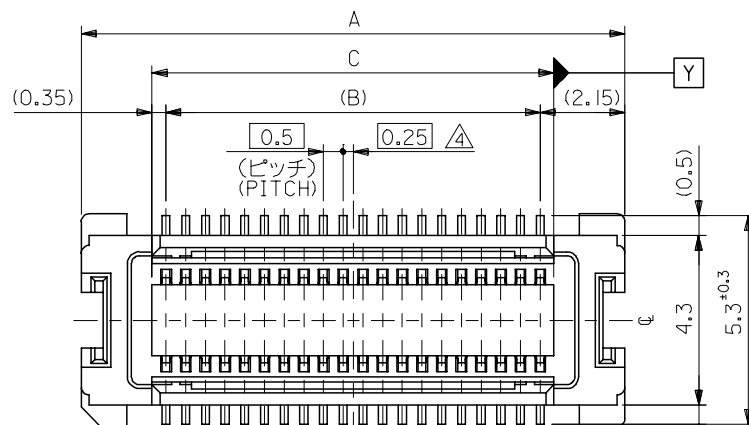
Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

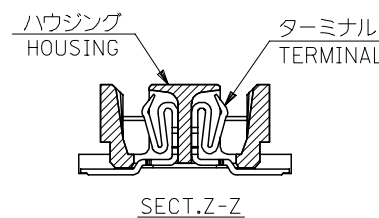
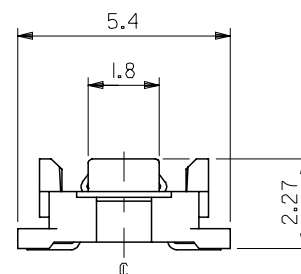
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[54167Series](#)

Mates With
[53916](#) , [53748](#)



参考基板レイアウト (マウント面)
P.C.BOARD PATTERN
DIMENSION (REF.)
(MOUNTING AREA)

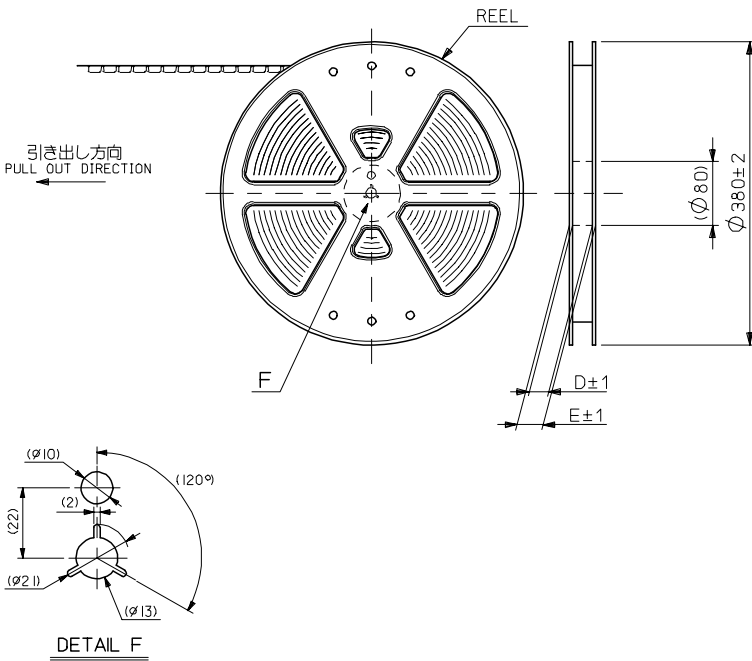


注記 NOTES:

1. 使用材料 MATERIAL
ハウジング: LCPガラス入り (黒) UL94V-0
HOUSING: LCP (G.F.) (COLOR : BLACK),
UL94V-0
ターミナル: リン青銅 (t=0.15)
TERMINAL: PHOSPHOR BRONZE (t=0.15)
2. メッキ仕様 PLATING
全体仕上げ: 金メッキ 0.1 MICROMETER MIN.
ALL OVER : GOLD 0.1 MICROMETER MIN.
下地メッキ: ニッケルメッキ 1.5 MICROMETER MIN.
UNDER PLATING : NICKEL 1.5 MICROMETER MIN.
3. 基準面 [X] からの溶剤テールの半田付け面のズレ量は、上方向 0、
下方向 0.15MAX. とする。
MISALIGNMENT OF SOLDER TAIL FROM [X]
: UPPER DIRECTION 0, LOWER DIRECTION 0.15 MAX.
4. (全極数/2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT/2)=EVEN.
5. 嵌合相手: 53748 シリーズ, 53916 シリーズ, 502280 シリーズ
MATE WITH : 53748 SERIES, 53916 SERIES, 502280 SERIES.
6. テール平坦度は、0.1MAX.
TAIL COPLANARITY TO BE 0.1MAX.

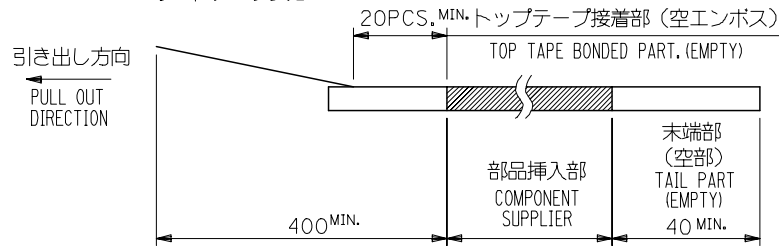
20.2	19.5	23.8	54167-0801	80
17.7	17.0	21.3	-0701	70
15.2	14.5	18.8	-0601	60
12.7	12.0	16.3	-0501	50
10.2	9.5	13.8	-0401	40
7.7	7.0	11.3	-0301	30
5.2	4.5	8.8	54167-0201	20
C	B	A	MATERIAL NO.	極数 CIRCUIT

54167***1		MODEL NO.	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	MM ONLY			
10 UNDER	± 0.2	DRAWN BY	S. AIHARA	DATE	TITLE	
10 OVER 30 UNDER	± 0.25	CHECKED BY	M. SASAO	DATE		
30 OVER	± 0.3	APPROVED BY	M. SASAO	DATE	MOLEX INCORPORATED	
ANGULAR	± 3 °	MATERIAL NO.		DOCUMENT NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE	SEE CHART	SD-54167-001	SHEET NO.	
					1 OF 1	

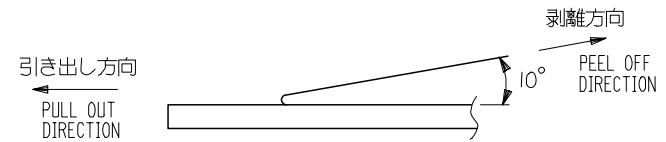


NOTES

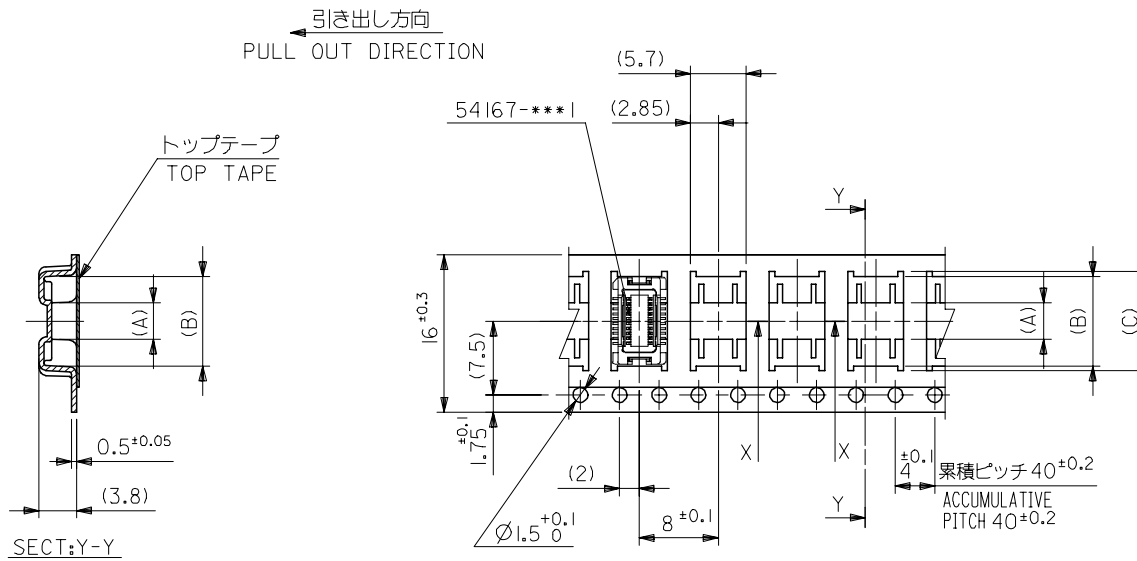
- 製品詳細寸法については図面 SD-54167-001 を参照下さい。
RE DETAILED DIMENSION, SEE SD-54167-001
- 梱包数量：3000個／リール
NUMBER OF CONNECTORS：3000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- トップテープの剥離強度：0.1N~1.3 (10gf~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：0.1N~1.3 (10gf~130gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTATION.

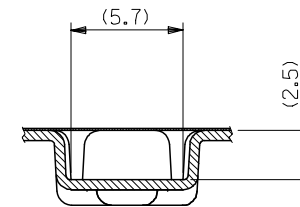
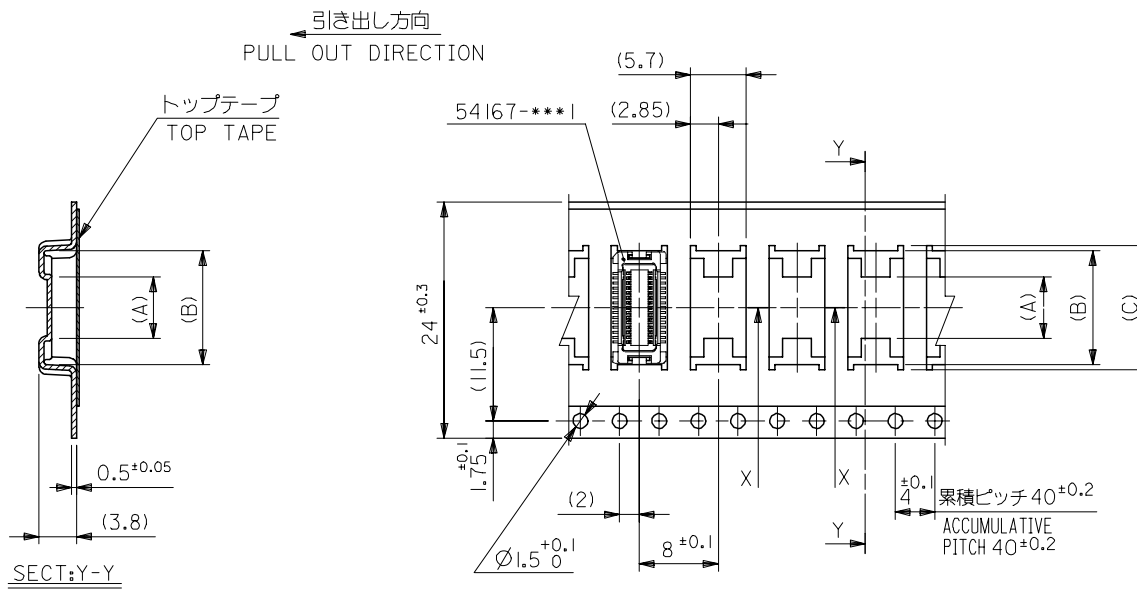


- 材料(MATERIAL)
キャリアテープ(CARRIER TAPE)：ポリプロピレン(POLYPROPYLENE)
トップテープ(TOPTAPE)：PET, PE, PEF
リール(REEL)：ポリスチレン(PS) <リサイクル材を含む>
POLYSTYREN(PS) <RECYCLE MATERIAL CONTAINED>



16mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

REVISED EC NO: J2006-0604 DRW:NAIDA 2005/08/31 CHK:KTOYODA 2005/09/01 APP:NUKITA 2005/09/09	DESCRIPTION	54167***8		MODEL NO.		I6	21.4	17.4	10.1	9.1	3.7	54167-0208	20
						キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CIRCUIT
		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY			SCALE ---		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION		
		10 UNDER ± ---		DRAWN BY S. AIHARA			DATE '97/05/09		0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-				
	10 OVER 30 UNDER ± ---		CHECKED BY T. ITO			DATE '00/12/06							
	30 OVER ± ---		APPROVED BY M. FUKUSHIMA			DATE '00/12/06		MOLEX INCORPORATED					
	ANGULAR ± --- °		MATERIAL NO.			DOCUMENT NO.					SHEET NO. 2 OF 6		
REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3			SEE CHART SD-54167-002							
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													



SECT:X-X

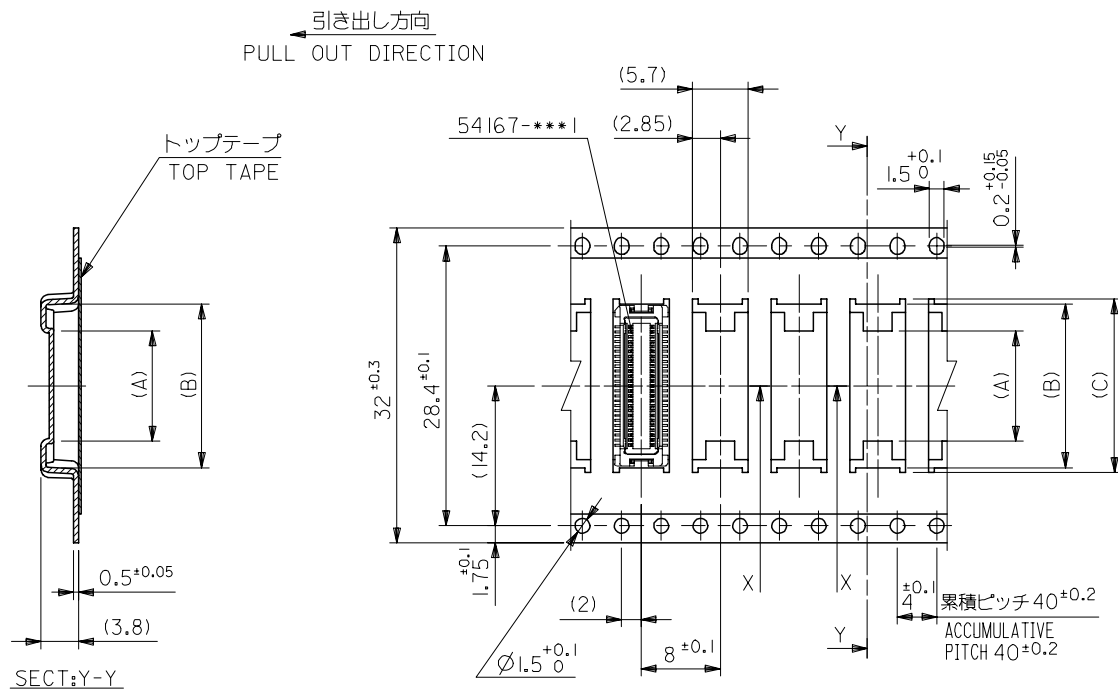
24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

54167***8 MODEL NO.

REVISED
EC NO: J2006-0604
DRWN: AIDA 2005/08/31
CHKD: KTOYODA 2005/09/01
APPR: NUKITA 2005/09/09

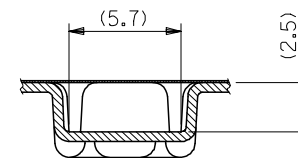
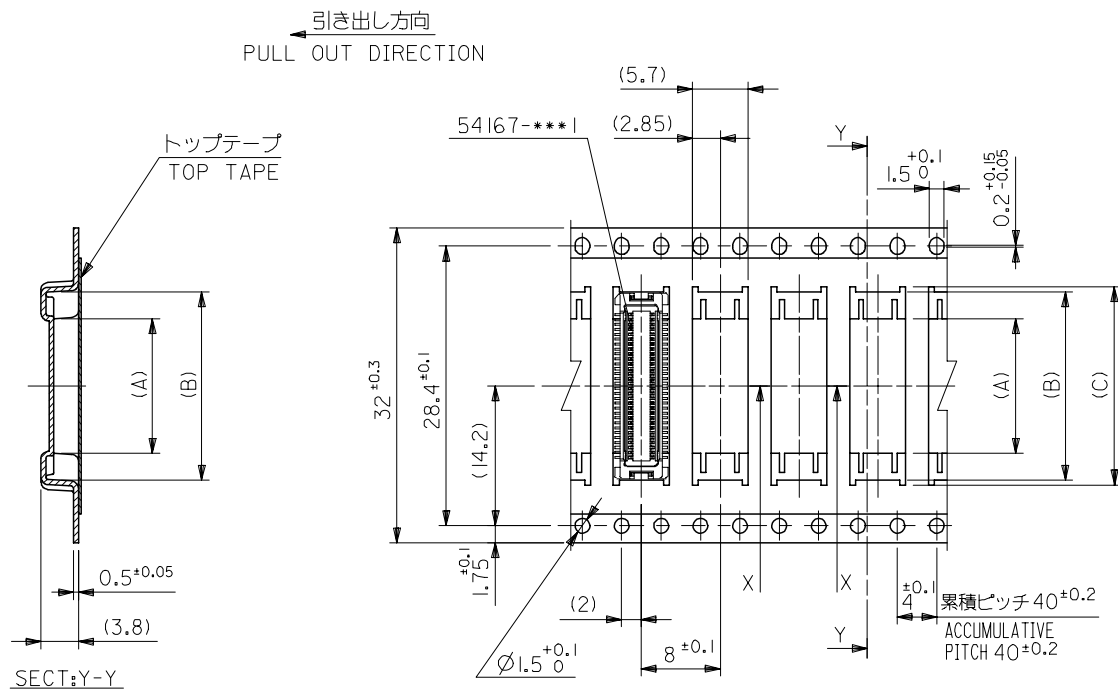
DESCRIPTION
GENERAL TOLERANCES
(UNLESS SPECIFIED)
10 UNDER ± ---
10 OVER 30 UNDER ± ---
30 OVER ± ---
ANGULAR ± --- °
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

24	29.4	25.4	15.1	14.1	7.4	54167-0408	40
			12.6	11.6	4.9	54167-0308	30
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CIRCUIT
DIMENSION STYLE MM ONLY			SCALE ---		DESIGN UNITS METRIC	THIRD ANGLE PROJECTION 	
DRAWN BY S. AIHARA	DATE '97/05/09		TITLE 0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-				
CHECKED BY T. ITO	DATE '00/12/06						
APPROVED BY M. FUKUSHIMA	DATE '00/12/06		MOLEX INCORPORATED 				
MATERIAL NO. SEE CHART			DOCUMENT NO. SD-54167-002				SHEET NO. 3 OF 6
SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



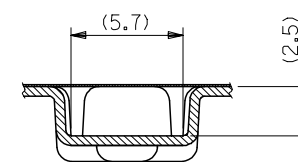
32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

REVISED		EC NO: J2006-0604		2005/08/31		2005/09/01		2005/09/09		DRWN:NAIDA		CHKD:KTOYODA		APPR:NUKITA		DESCRIPTION		REV	
10 UNDER		± ---		10 OVER		30 UNDER		± ---		30 OVER		± ---		ANGULAR		± --- °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
54167***8		MODEL NO.		32		37.4		33.4		17.6		16.6		11.2		54167-0508		50	
キャリアテープ幅 CARRIER TAPE WIDTH		E		D		(C)		(B)		(A)		MATERIAL NO.		極数 CIRCUIT		54167-0508		50	
DRAWN BY		DATE		TITLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION		0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-		MOLEX INCORPORATED		DOCUMENT NO.		SHEET NO.	
S. AIHARA		'96/11/25		T. ITO		'00/12/06		M. FUKUSHIMA		'00/12/06		SD-54167-002		4 OF 6		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		EN-02JA(021)	



32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

REVISED EC NO: J2006-0604 DRWN:NAIDA 2005/08/31 CHKD:KTOYODA 2005/09/01 APPR:NUKITA 2005/09/09	DESCRIPTION	54167***8		MODEL NO.	32	37.4	33.4	20.1	19.1	13.7	54167-0608	60	
					キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CIRCUIT	
		GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY			SCALE ---	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION		
		10 UNDER		± ---	DRAWN BY T. YASUI		DATE '97/05/14		0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-				
		10 OVER 30 UNDER		± ---	CHECKED BY T. ITO		DATE '00/12/06						
	30 OVER		± ---	APPROVED BY M. FUKUSHIMA		DATE '00/12/06		MOLEX INCORPORATED					
REV	ANGULAR ±1 °			MATERIAL NO.		DOCUMENT NO.					SHEET NO.		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE CAHRT		SD-54167-002					5 OF 6		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													

SECT:X-X

44mm 幅キャリアテープ

44mm WIDTH CARRIER TAPE

REVISED EC NO: J2006-0604 DRAWN:IDA CHKD:KTOYODA APPR:NUKITA	DESCRIPTION 2005/08/31 2005/09/01 2005/09/09	54167***8		MODEL NO.	44	49.4	45.4	25.1	24.1	17.5	54167-0808	80	
					キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CIRCUT	
		GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY			SCALE ---		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
		10 UNDER		± ---	DRAWN BY S.AIHARA		DATE '98/10/23		TITLE 0.5 B/B CONN REC HSG ASSY EMBSTP PKG -LEAD FREE-				
		10 OVER 30 UNDER		± ---	CHECKED BY T.IITO		DATE '00/12/06						
		30 OVER		± ---	APPROVED BY M.FUKUSHIMA		DATE '00/12/06		MOLEX INCORPORATED				
		ANGULAR ± --- °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE CHART			SD-54167-002			6 OF 6		
					SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
		REV											