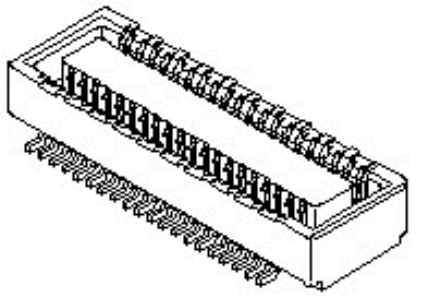
This document was generated on 04/16/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0541020504

Status: Active

Description: 0.50mm (.020") Pitch SlimStack™ Receptacle, Surface Mount, Dual Row, Vertical, 2.50mm (.098") Stacking Height, Gold Plating with Nickel Barrier, 50 Circuits



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-54102-011 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Receptacles
Series	54102
Application	Board-to-Board
Product Name	SlimStack™

Physical

Circuits (Loaded)	50
Color - Resin	Black
Durability (mating cycles max)	30
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Mated Height (in)	0.098 In
Mated Height (mm)	2.50 mm
Material - Metal	Phosphor Bronze
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
Polarized to Mating Part	No
Polarized to PCB	No
Stackable	No
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

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

Material Info

Reference - Drawing Numbers

Product Specification	PS-54102-011, RPS-54102-013, RPS-54102-015
Sales Drawing	SD-54102-006, SD-54102-007

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

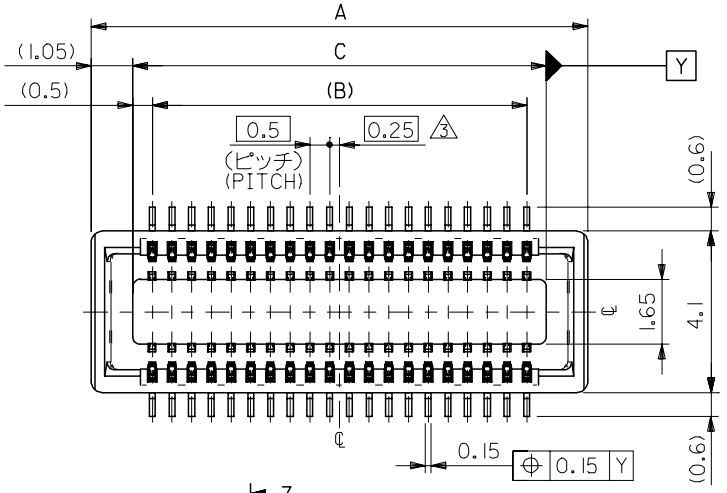
Please visit the Contact Us section for any non-product compliance questions.

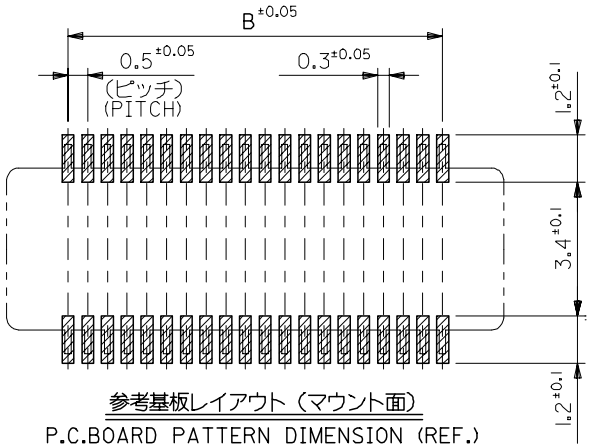
Search Parts in this Series
54102Series

Mates With
53885 PCB Header

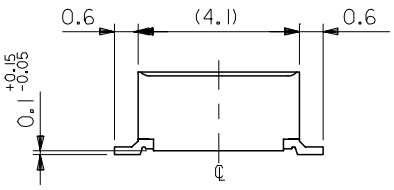
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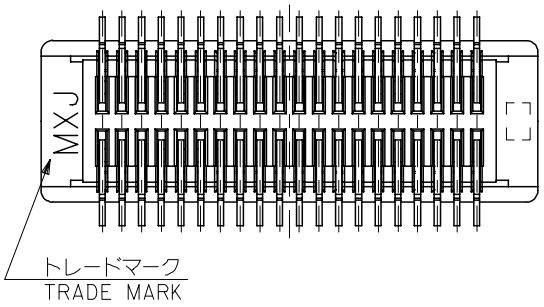
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

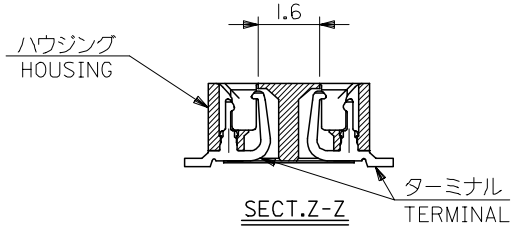




参考基板レイアウト（マウント面）
P.C.BOARD PATTERN DIMENSION (REF.)
(MOUNTING AREA)







SECT.Z-Z

注記 NOTES:

1. 使用材料 MATERIAL
   ハウジング：ポリフタルアミド（ＰＰＡ），
   ガラス充填。UL94V-0，色：黒
   HOUSING:POLYPHUTAL AMIDO(PPA),GLASS FILLED
   UL94V-0,COLOR:BLACK
   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
   金メッキ 0.25マイクロメートル以上（コンタクト部）
   GOLD(Au) 0.25 MICROMETER MINIMUM
   (CONTACT AREA)
   金メッキ 0.05マイクロメートル以上（テール部）
   GOLD(Au) 0.05 MICROMETER MINIMUM (TAIL AREA)
   下地メッキ：ニッケルメッキ 1.5 マイクロメートル以上
   UNDER PLATING
   : NICKEL 1.5 MICROMETER MINIMUM
   ＊コンタクト部とテール部はニッケルメッキによって
   分断されている金メッキです。
   DIVIDE INTO PARTS THE GOLD PLATING OF
   THE CONTACT PART AND THE TAIL PART BY
   THE NICKEL PLATING.
3. （全極数／2）＝偶数の場合に適用。
   APPLY FOR (CIRCUIT/2)=EVEN.
4. 嵌合相手：53885 /500334 シリーズ
   MATE WITH : 53885 / 500334 SERIES.
5. テール平坦度は、0.1MAX.
   TAIL COPLANARITY TO BE 0.1 MAXIMUM.

C	B	A	MATERIAL No.	極数 CIRCUIT
18.0	17.0	20.1	54102-0703	70
15.5	14.5	17.6	-0603	60
13.0	12.0	15.1	-0503	50
10.5	9.5	12.6	-0403	40
8.0	7.0	10.1	-0303	30
5.5	4.5	7.6	-0203	20
4.5	3.5	6.6	54102-0163	16

MODEL No. 54102-***3

REVISED
EC NO: J2005-1175 2004/10/29
DRWN:MUMEDA 2004/10/29
CHKD:KTOYODA 2004/11/01
APPR:NUKITA
REV A
DESCRIPTION

GENERAL TOLERANCES (UNLESS SPECIFIED)

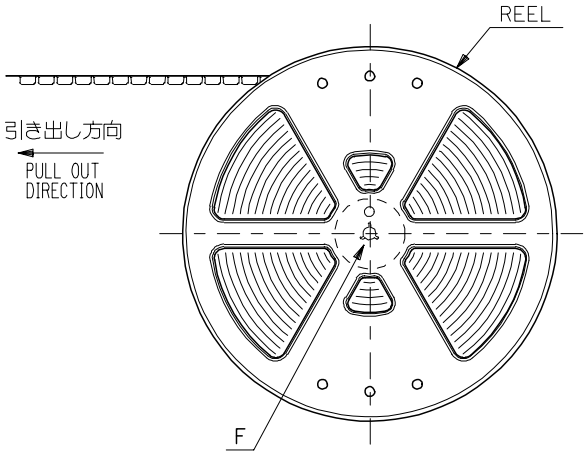
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR ±3 °	

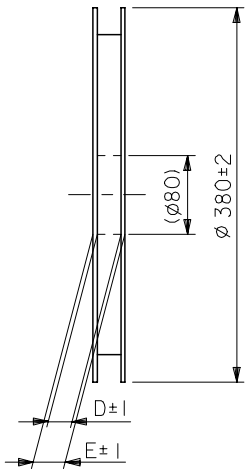
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

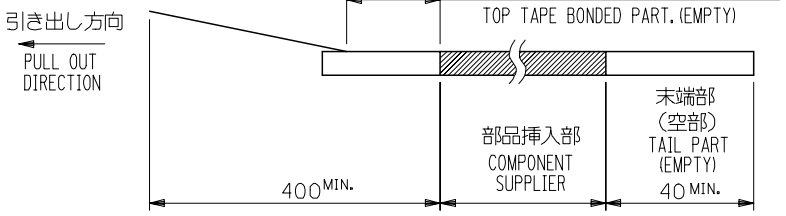
DIMENSION STYLE: MM ONLY	SCALE: ---	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: Y.SAKIYA	DATE: 2004/05/06	TITLE: 0.5 B-TO-B CONN REC HSG ASSY(HGT=2.5) [NI BARRIER]-LEAD FREE-	
CHECKED BY: M.SASAO	DATE: 2004/05/06		
APPROVED BY: M.SASAO	DATE: 2004/05/06	molex MOLEX INCORPORATED	
MATERIAL NO.: SEE CHART		DOCUMENT NO.: SD-54102-006	SHEET NO.: 1 OF 1

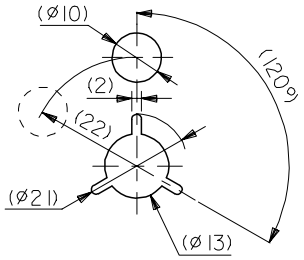
SIZE A3

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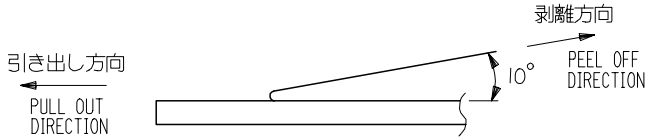


DETAIL F

NOTES

1. 製品詳細寸法については図面 SD-54102-006 を参照下さい。
   RE DETAILED DIMENSION, SEE SD-54102-006.
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(TOPTAPE)： 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>

REVISED			
EC NO: J2005-1175	2004/10/29		
DRWN:MUMEDA	2004/10/29		
CHKD:KTOYODA	2004/11/01		
APPR:NUKITA			
REV	A	DESCRIPTION	

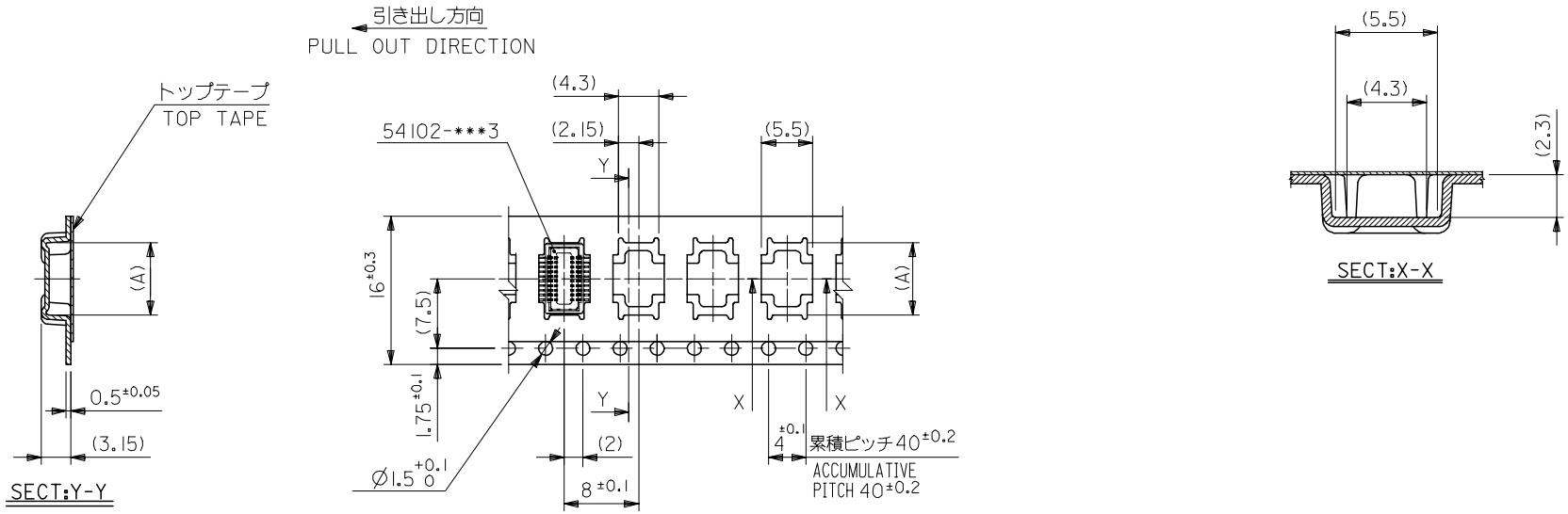
GENERAL TOLERANCES (UNLESS SPECIFIED)

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: Y.SAKIYA	DATE: 2004/05/06	TITLE: EMBSTP PKG FOR 0.5 B/B REC HSG ASSY (H=2.5) [NI BARRIER]-LEAD FREE-	
CHECKED BY: M.SASAO	DATE: 2004/05/06		
APPROVED BY: M.SASAO	DATE: 2004/05/06	molex MOLEX INCORPORATED	
MATERIAL NO.: SEE CHART		DOCUMENT NO.: SD-54102-007	SHEET NO.: 1 OF 3

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16mm幅キャリアテープ

16mm WIDTH CARRIER TAPE

キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(A)	MATERIAL NO.	極数 CIRCUITS
16	21.4	17.4	7.8	54102-0204	20
			6.8	54102-0164	16

MODEL NO. 54102-***4

REVISED
EC NO: J2005-1175 2004/10/29
DRWN:MUMEDA 2004/10/29
CHKD:KTOYODA 2004/11/01
APPR:NUKITA
DESCRIPTION
REV A

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: Y.SAKIYA DATE: 2004/05/06
CHECKED BY: M.SASAO DATE: 2004/05/06
APPROVED BY: M.SASAO DATE: 2004/05/06

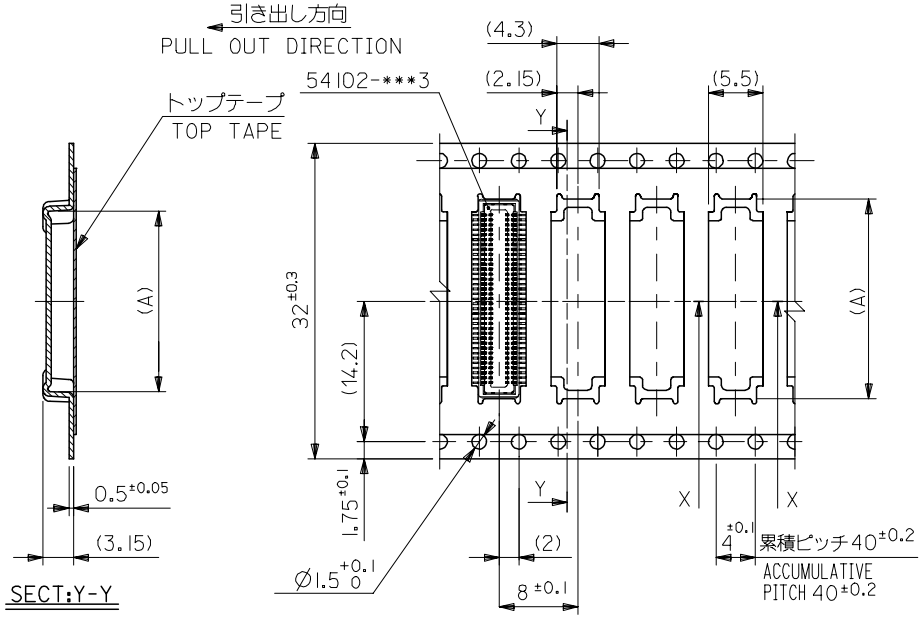
TITLE: EMBSTP PKG FOR 0.5 B/B REC HSG ASSY (H=2.5) [NI BARRIER]-LEAD FREE-

molex MOLEX INCORPORATED

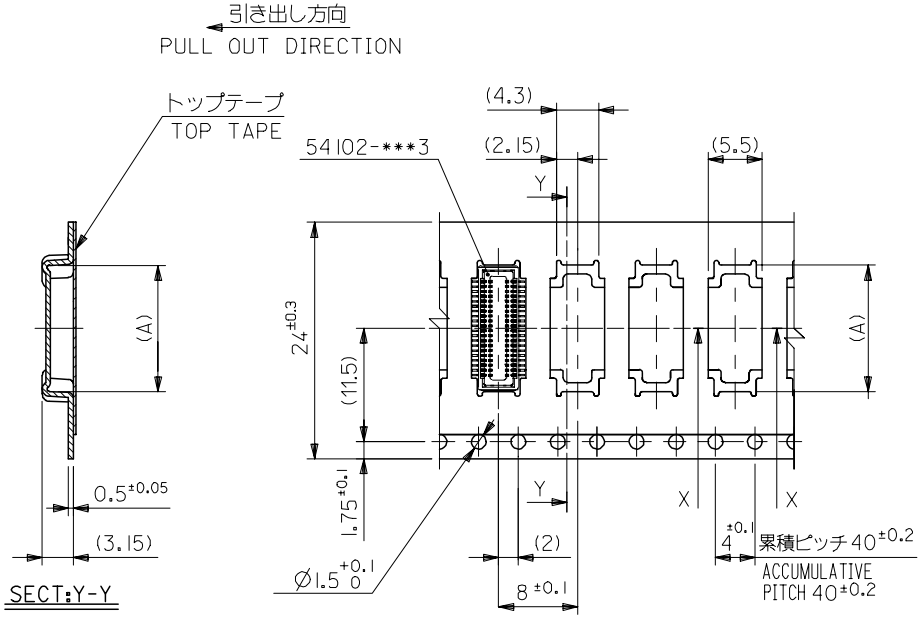
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-54102-007
SHEET NO.: 2 OF 3

SIZE A3

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32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE



24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(A)	MATERIAL NO.	極数 CIRCUITS
32	37.4	33.4	20.3	54102-0704	70
			17.8	54102-0604	60
24	29.4	25.4	15.3	54102-0504	50
			12.8	54102-0404	40
			10.3	54102-0304	30

MODEL NO. 54102-***4

REVISED
EC NO: J2005-1175 2004/10/29
DRWN:MUMEDA 2004/10/29
CHKD:KTOYODA 2004/11/01
APPR:NUKITA
DESCRIPTION
REV A

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: Y.SAKIYA DATE: 2004/05/06	TITLE: EMBSTP PKG FOR 0.5 B/B REC HSG ASSY (H=2.5) [NI BARRIER]-LEAD FREE-		
CHECKED BY: M.SASAO DATE: 2004/05/06			
APPROVED BY: M.SASAO DATE: 2004/05/06	molex MOLEX INCORPORATED		
MATERIAL NO.: SEE CHART	DOCUMENT NO.: SD-54102-007		SHEET NO.: 3 OF 3

SIZE A3

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