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Part Number:

0541020604

Status:

Active

Description:

0.50mm (.020") Pitch SlimStack™ Receptacle, Surface Mount, Dual Row, Vertical, 2.50mm (.098") Stacking Height, Gold Plating with Nickel Barrier, 60 Circuits

Documents:

3D Model

Drawing (PDF)

Product Specification PS-54102-011 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Product Name

PCB Receptacles

54102

Board-to-Board

SlimStack™

Physical

Circuits (Loaded)

Color - Resin

Durability (mating cycles max)

Glow-Wire Compliant

Lock to Mating Part

Mated Height (in)

Mated Height (mm)

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to Mating Part

Polarized to PCB

Stackable

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

60

Black

30

No

Yes

0.098 In

2.50 mm

Phosphor Bronze

Gold

Gold

High Temperature Thermoplastic

2

Vertical

No

None

Embossed Tape on Reel

0.020 In

0.50 mm

10

0.25

2

0.05

No

No

No

N/A

-40°C to +85°C

Surface Mount

Electrical

Current - Maximum per Contact

Voltage - Maximum

0.5A

50V

Material Info

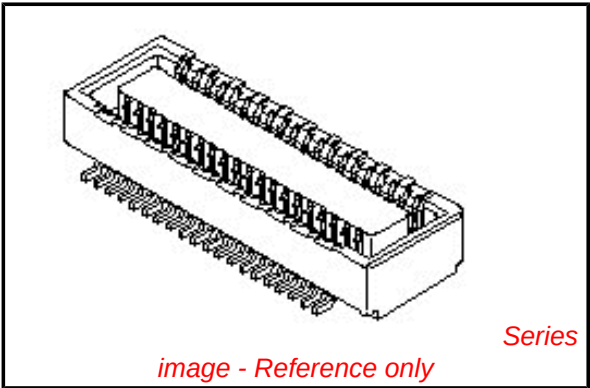
Reference - Drawing Numbers

Product Specification

Sales Drawing

PS-54102-011, RPS-54102-013, RPS-54102-015

SD-54102-006, SD-54102-007



EU RoHS

ELV and RoHS

Compliant

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

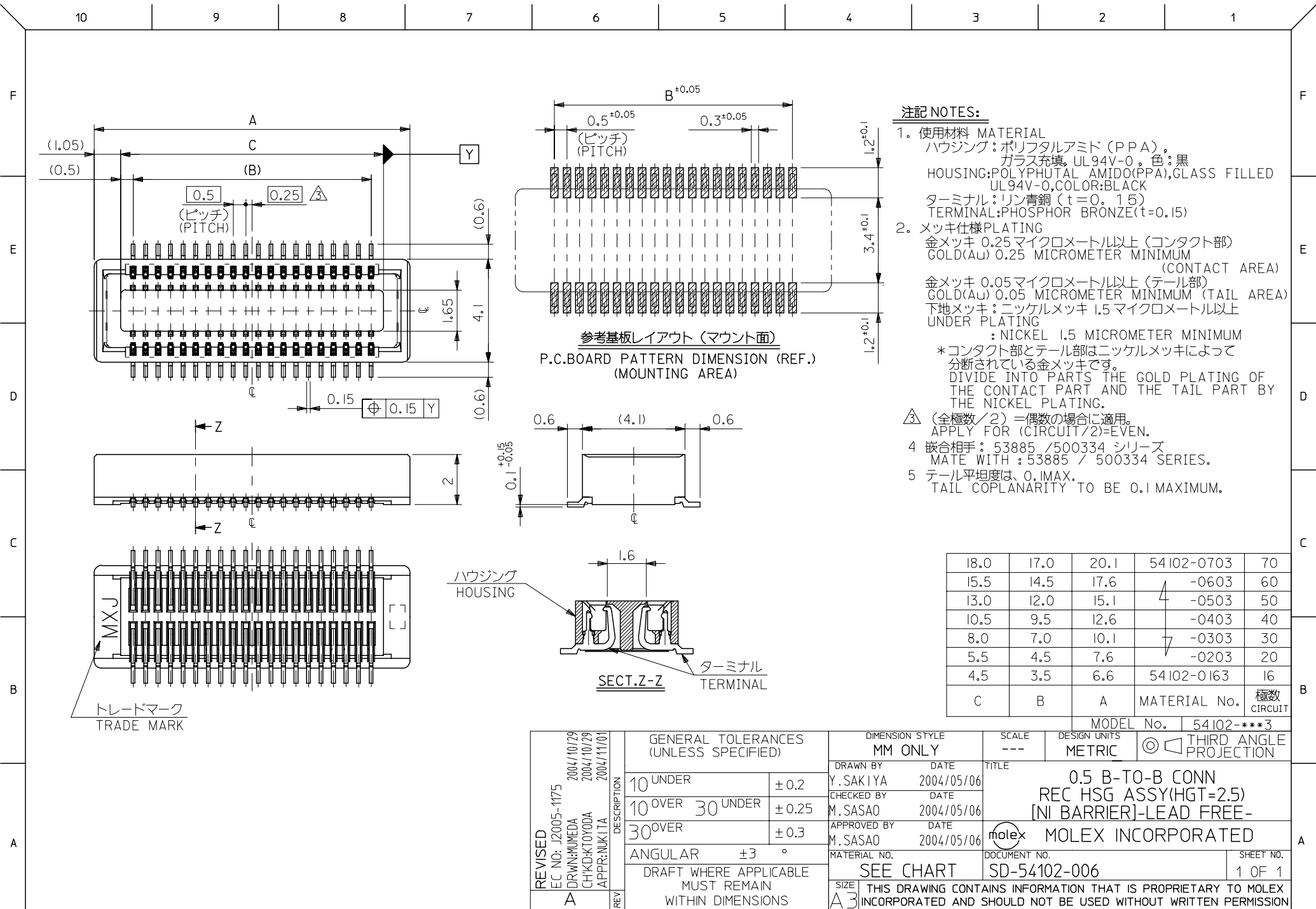
54102Series

Mates With

53885 PCB Header

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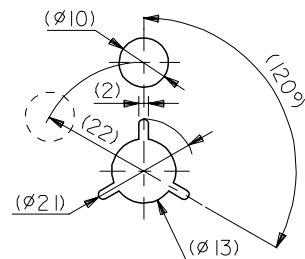
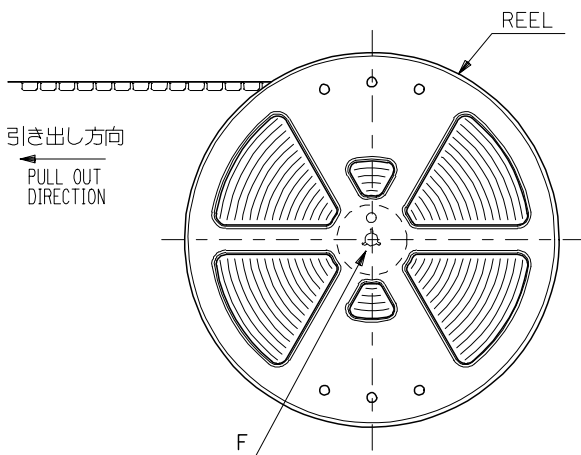
注記 NOTES:

1. 使用材料 MATERIAL
ハウジング: ポリフタルアミド (P.P.A).
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.
- △ (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.

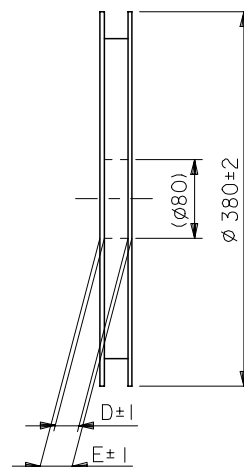
18.0	17.0	20.1	54102-0703	70
15.5	14.5	17.6	-0603	60
13.0	12.0	15.1	-0503	50
10.5	9.5	12.6	-0403	40
8.0	7.0	10.1	-0303	30
5.5	4.5	7.6	-0203	20
4.5	3.5	6.6	54102-0163	16
C	B	A	MATERIAL No.	極数 CIRCUIT

MODEL No. 54102-***3

REVISED EC NO: J2005-1175 DRWN:NUMEDA 2004/10/29 CHKD:KTOYODA 2004/10/29 APPR:NUKITA 2004/11/01	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	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- MOLEX INCORPORATED				
		10 OVER 30 UNDER	± 0.25	CHECKED BY M. SASAO	DATE 2004/05/06					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/05/06					
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-54102-006		1 OF 1		
		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

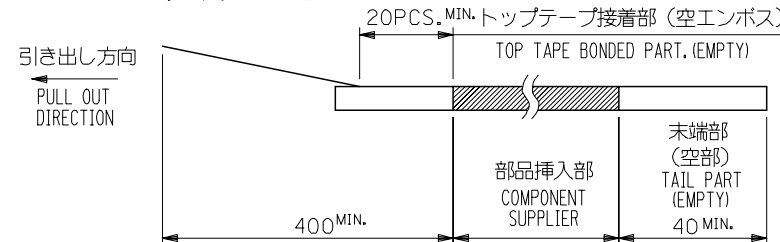


DETAIL F

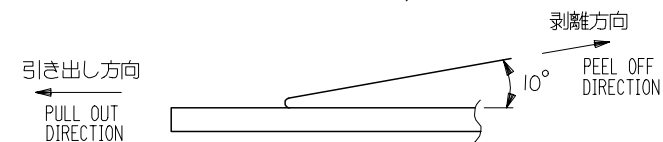


NOTES

- 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.
- 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

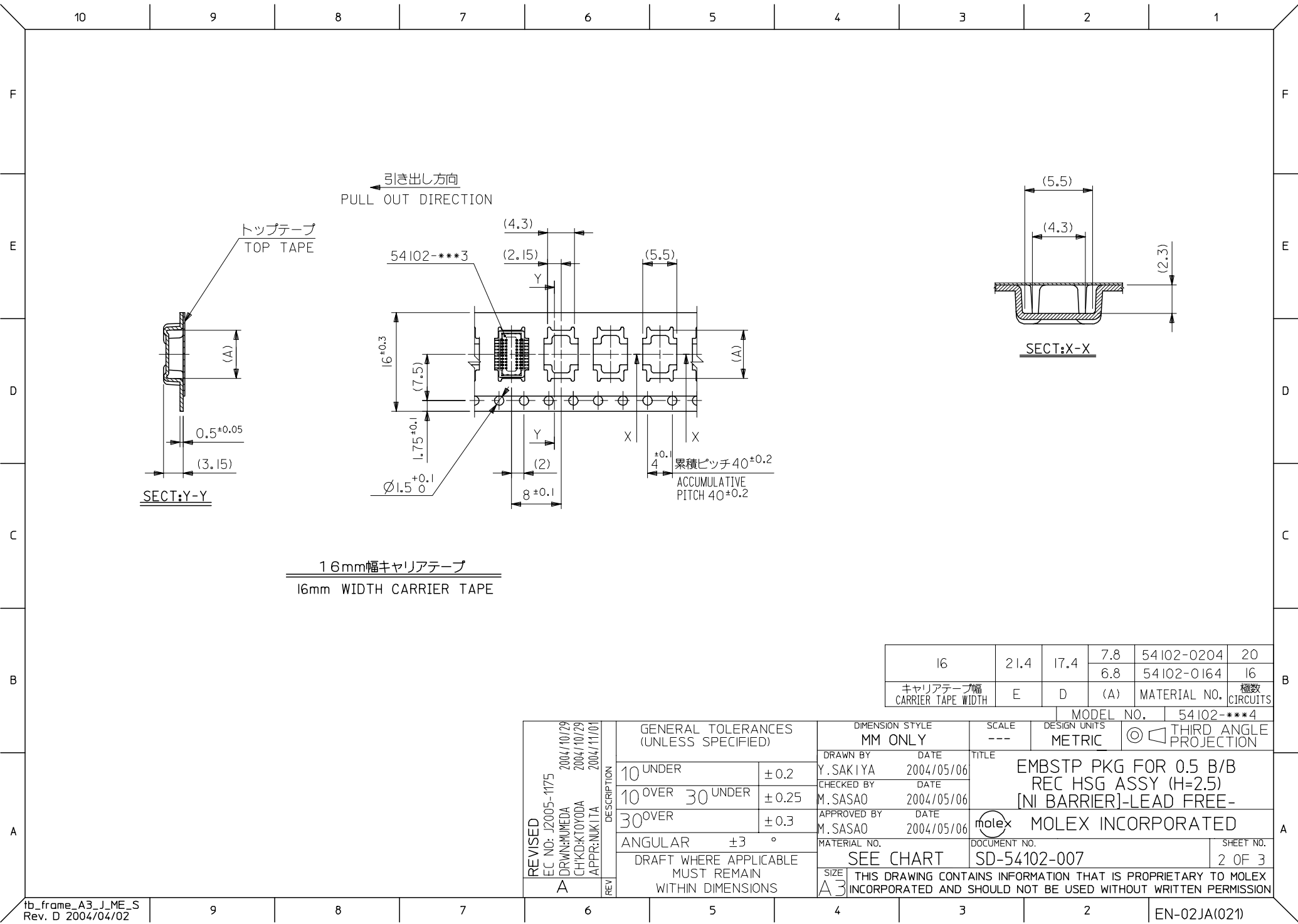


- トップテープの剥離強度：0.1～1.3N {10～130gf}
(剥離方向は下図参照)
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)
PEELING OFF FORCE OF TOP TAPE : 0.1～1.3N {10～130gf}
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.



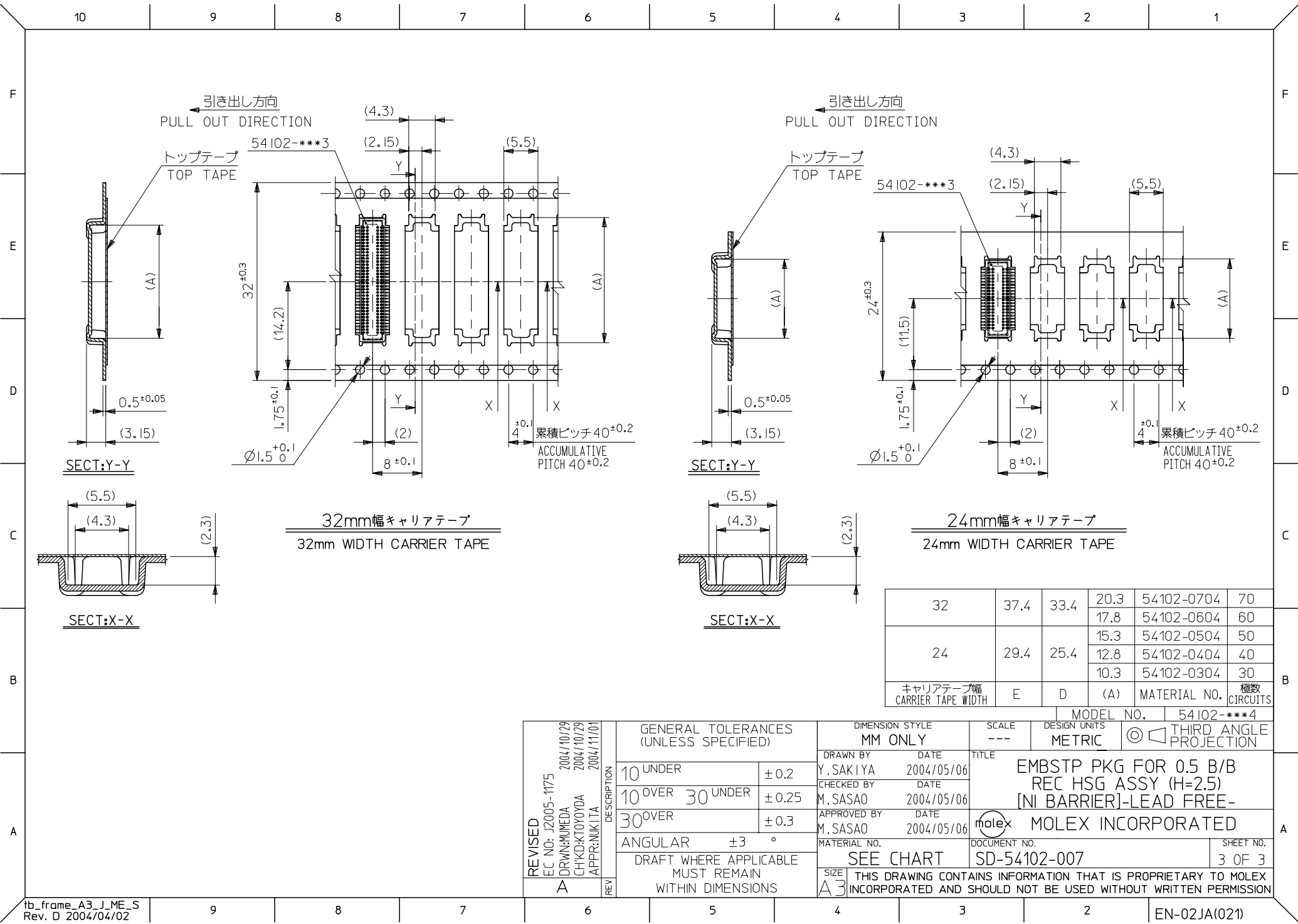
- 材料(MATERIAL)
キャリアテープ(CARRIER TAPE)：ポリプロピレン(POLYPROPYLENE)
トップテープ(TOPTAPE)：PET, PE, PEF
リール(REEL)：ポリスチレン (P S) <リサイクル材を含む>
POLYSTYRENE(PS) <RECYCLE MATERIAL CONTAINED>

REVISED	EC NO: J2005-1175	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- MOLEX INCORPORATED	SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
A	REV	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	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- MOLEX INCORPORATED
			10 UNDER ±0.2		CHECKED BY M. SASAO	DATE 2004/05/06	
			10 OVER 30 UNDER ±0.25		APPROVED BY M. SASAO	DATE 2004/05/06	
			30 OVER ±0.3		MATERIAL NO.	DOCUMENT NO.	SHEET NO.
			ANGULAR ±3 °		SEE CHART	SD-54102-007	1 OF 3
			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	



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

REVISED EC NO: J2005-1175 2004/10/29 DRAWN:MIMEDA CHKD:KTOYODA 2004/10/29 APPR:NUKITA 2004/11/01 A	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE ---	DESIGN UNITS METRIC	MODEL NO. 54102-***4
	10 UNDER	±0.2	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-	
	10 OVER 30 UNDER	±0.25	CHECKED BY M. SASAO	DATE 2004/05/06		
	30 OVER	±0.3	APPROVED BY M. SASAO	DATE 2004/05/06	MOLEX INCORPORATED	
	ANGULAR	±3 °	MATERIAL NO.		DOCUMENT NO. SD-54102-007	SHEET NO. 2 OF 3
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



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