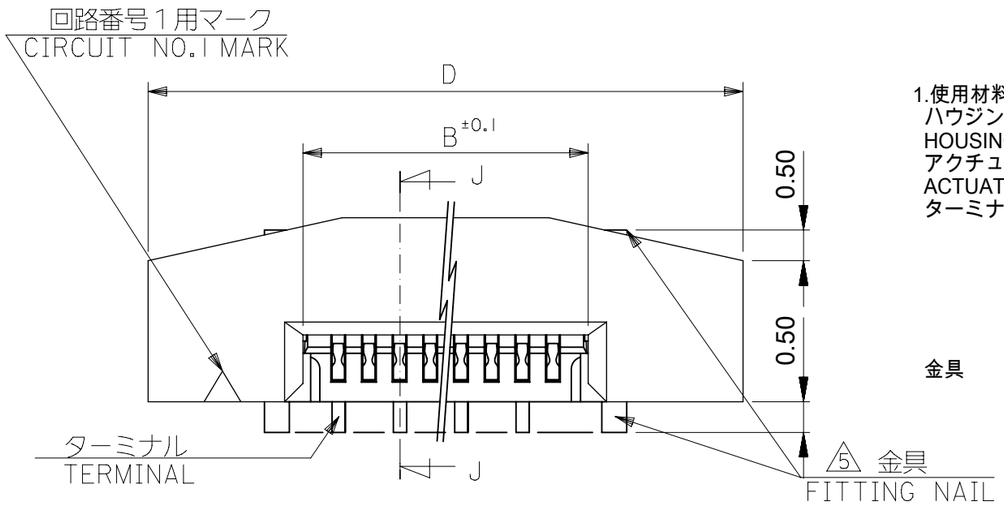
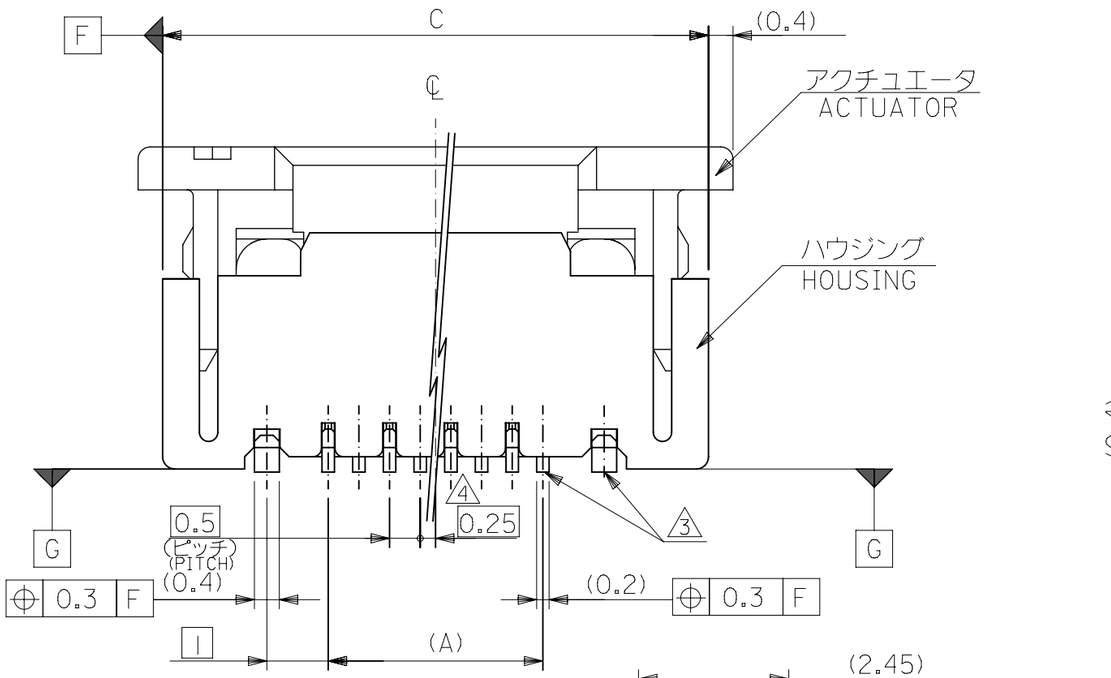
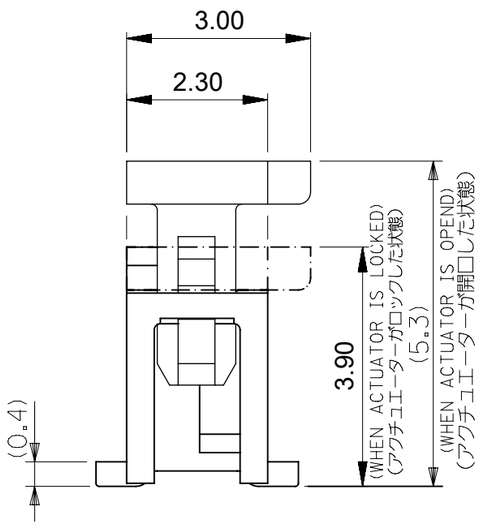
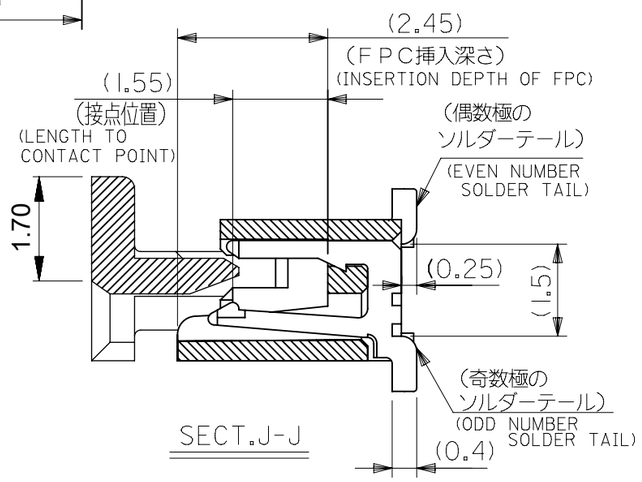


1.使用材料　MATERIAL
ハウジング　　: 46ナイロン、UL94V-0
HOUSING　　: PA46, UL94V-0
アクチュエータ : ポリフェニレンサルファイド (PPS) 、UL94V-0
ACTUATOR　　: PPS, UL94V-0
ターミナル　　: リン青銅(t=0.2)　PHOS-BRO(t = 0.2)
: 接点部　金メッキ 0.1マイクロメートル以上
CONTACT GOLD 0.1 MICROMETER MINIMUM
: 半田付け部 錫メッキ　1.0マイクロメートル以上
TAIL TIN 1.0 MICROMETER MINIMUM
: ニッケル下地 1.0マイクロメートル以上
NICKEL(UNDER PLATING)　1.0 MICROMETER MINIMUM
金具　　: リン青銅(t=0.4)　PHOS-BRO(t = 0.4)
: 錫メッキ 1.0マイクロメートル以上
TIN 1.0 MICROMETER MINIMUM
: ニッケル下地 1.0マイクロメートル以上
NICKEL(UNDER PLATING) 1.0 MICROMETER MINIMUM

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.52559-**79 SHOULD BE LOCKED.
△3 ソルダーテール半田付け面のズレ量、および金具半田付け面のズレ量は基準面 G に対し上方向 0.05MAXIMUM、下方向 0.15MAXIMUMとする。
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM DATUM-G UPPER DIRECTION : 0.05MAXIMUM, LOWER DIRECTION : 0.15 MAXIMUM.
△4 偶数極に適用。
APPLY FOR EVEN CIRCUIT.
△5 パターンはく離止め金具。
FITTING NAIL FOR PREVENTION OF PEELING OF P.W.BOARD PATTERN.
△6 R0.3は、FPCの導体部にかからないこと
R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.







25.7	24.9	20.65	19.5	52559-4052	40
23.7	22.9	18.65	17.5	52559-3652	36
21.7	20.9	16.65	15.5	52559-3252	32
20.7	19.9	15.65	14.5	52559-3052	30
19.7	18.9	14.65	13.5	52559-2852	28
19.2	18.4	14.15	13.0	52559-2752	27
18.7	17.9	13.65	12.5	52559-2652	26
17.7	16.9	12.65	11.5	52559-2452	24
17.2	16.4	12.15	11.0	52559-2352	23
16.2	15.4	11.15	10.0	52559-2152	21
15.7	14.9	10.65	9.5	52559-2052	20
14.2	13.4	9.15	8.0	52559-1752	17
13.7	12.9	8.65	7.5	52559-1652	16
13.2	12.4	8.15	7.0	52559-1552	15
12.7	11.9	7.65	6.5	52559-1452	14
11.7	10.9	6.65	5.5	52559-1252	12
10.7	9.90	5.65	4.5	52559-1052	10
10.2	9.40	5.15	4.0	52559-0952	9
8.70	7.90	3.65	2.5	52559-0652	6
D	C	B	(A)	ORDER No.	CKT.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	mm
SCALE	10:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 3.0 °
4 PLACES	± 0.2
3 PLACES	± 0.2
2 PLACES	± 0.2
1 PLACE	± 0.25
0 PLACES	± 0.3
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC:

EC NO: 176518
DRWN: TNAKAGAWA01 2018/05/09
CHK'D: RTAKEUCHI 2018/05/14
APPR: RTAKEUCHI 2018/05/14

INITIAL REVISION:
DRWN: MNABEI 2004/07/14
APPR: NUKITA 2004/07/14

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 52559

molex

0.5 FPC CONN ASSY ZIF
FOR SMT EMBSTP PKG -LEAD FREE-

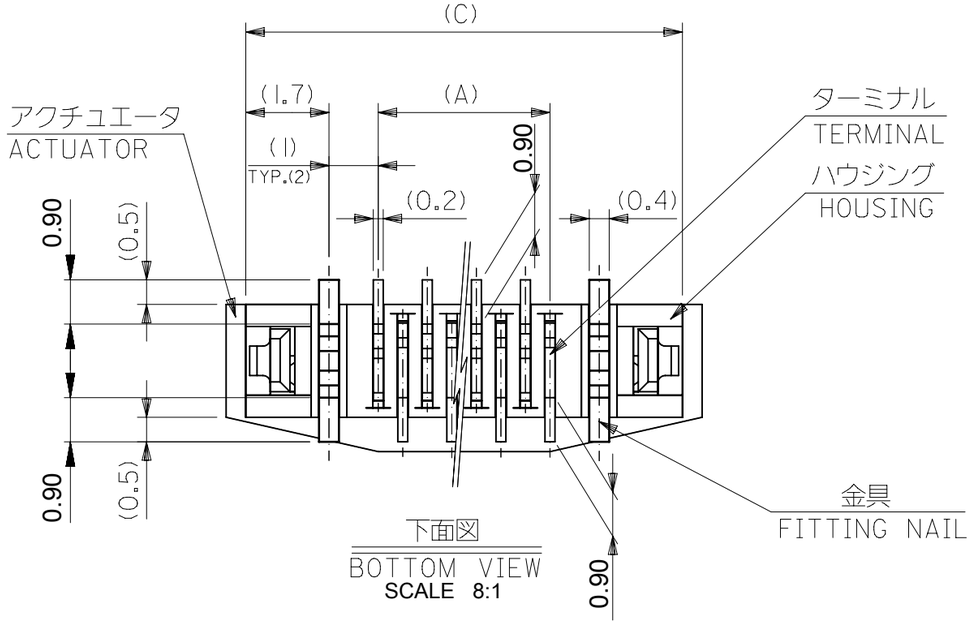
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-52559-049	PSD	001	L

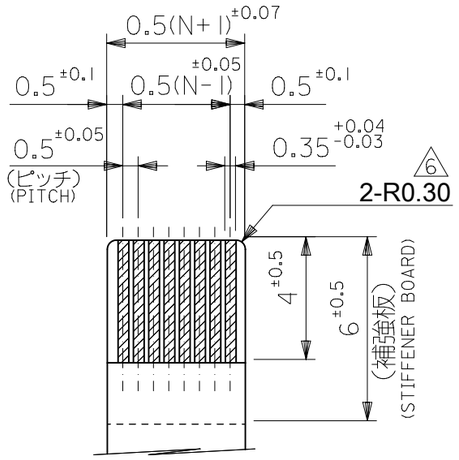
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	1 OF 6

DOCUMENT STATUS	P1	RELEASE DATE	2018/05/14 04:50:40

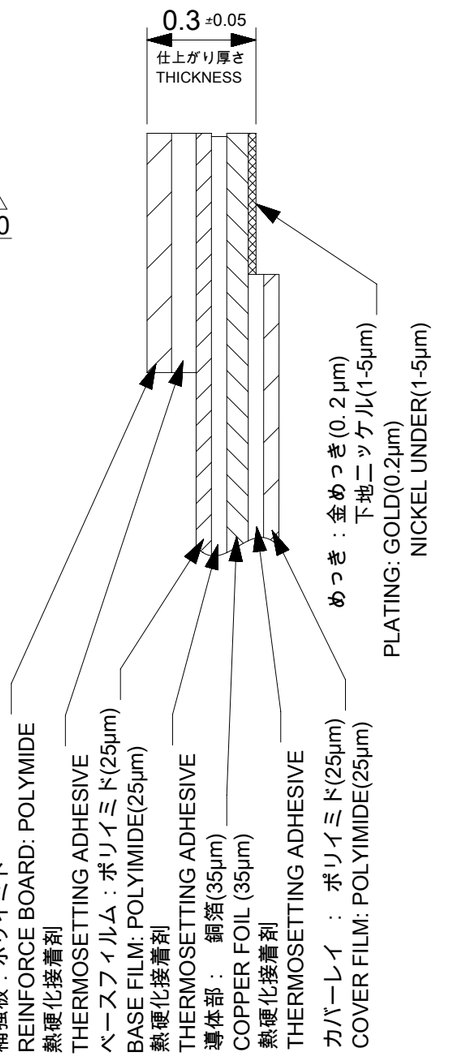
FORMAT: master-lb-prod-A3
REVISION: H
DATE: 2018/01/18



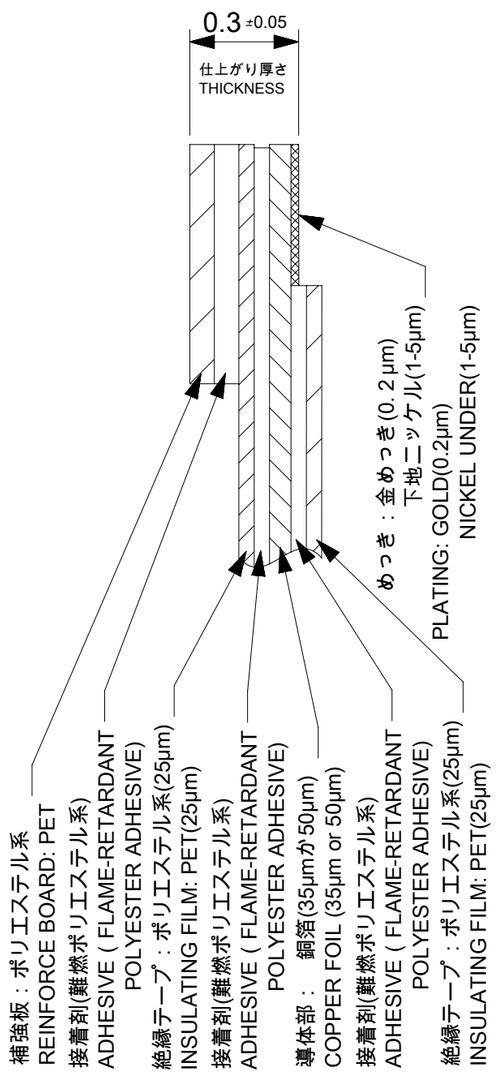
下面図
BOTTOM VIEW
SCALE 8:1



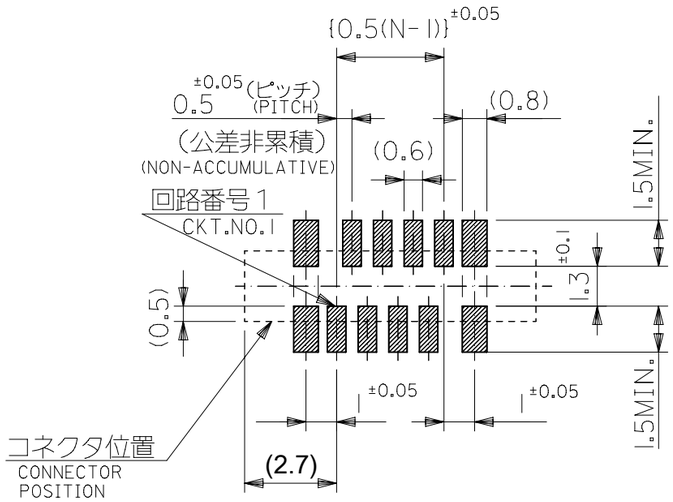
適合ＦＰＣ推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION.
(仕上がり厚さ：0.3±0.05)
(THICKNESS:0.3±0.05)



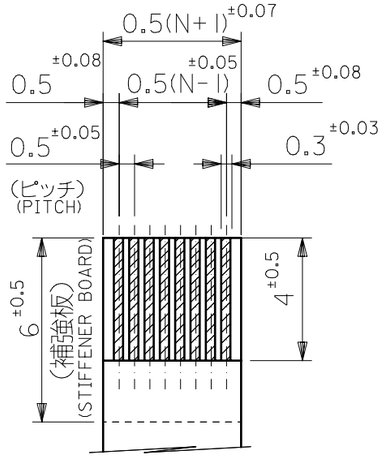
FPC構成推奨仕様
STRUCTURE OF FPC



FFC構成推奨仕様
STRUCTURE OF FFC



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



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 : THRMOSETTING BONDING AGENT

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	mm
SCALE	5:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 3.0°
4 PLACES	± 0.2
3 PLACES	± 0.2
2 PLACES	± 0.2
1 PLACE	± 0.25
0 PLACES	± 0.3
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC:

EC NO: 176518
DRWN: TNAKAGAWA01 2018/05/09
CHK'D: RTAKEUCHI 2018/05/14
APPR: RTAKEUCHI 2018/05/14

INITIAL REVISION:
DRWN: MNABEI 2004/07/14
APPR: NUKITA 2004/07/14

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 52559

molex

0.5 FPC CONN ASSY ZIF
FOR SMT EMBSTP PKG -LEAD FREE-

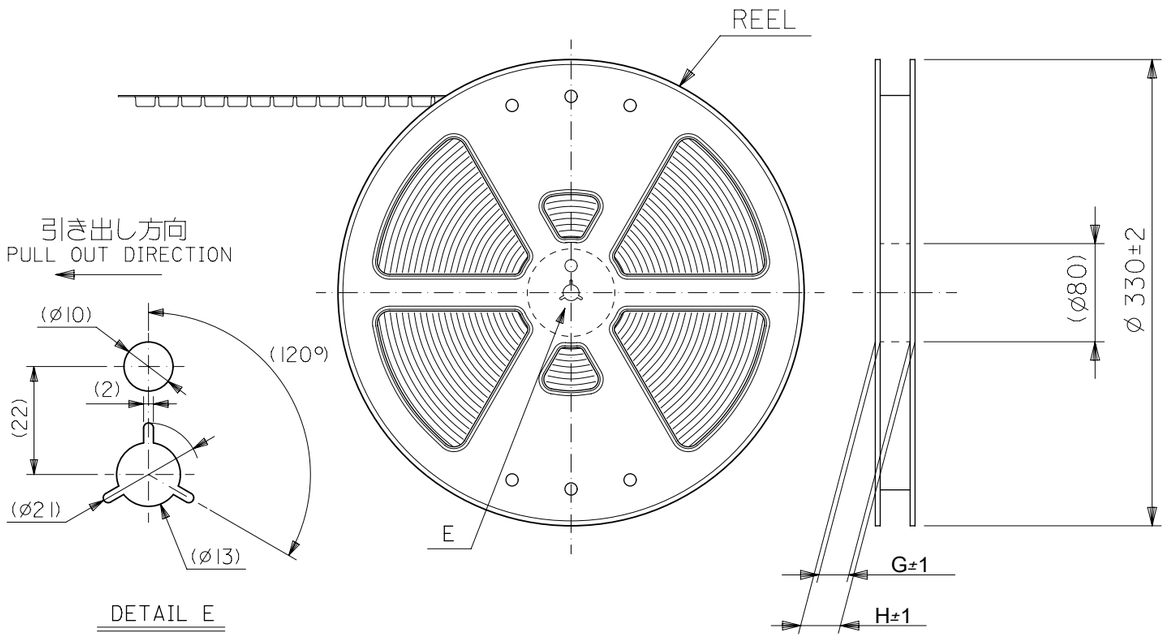
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-52559-049	PSD	001	L

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 1	GENERAL MARKET	2 OF 6

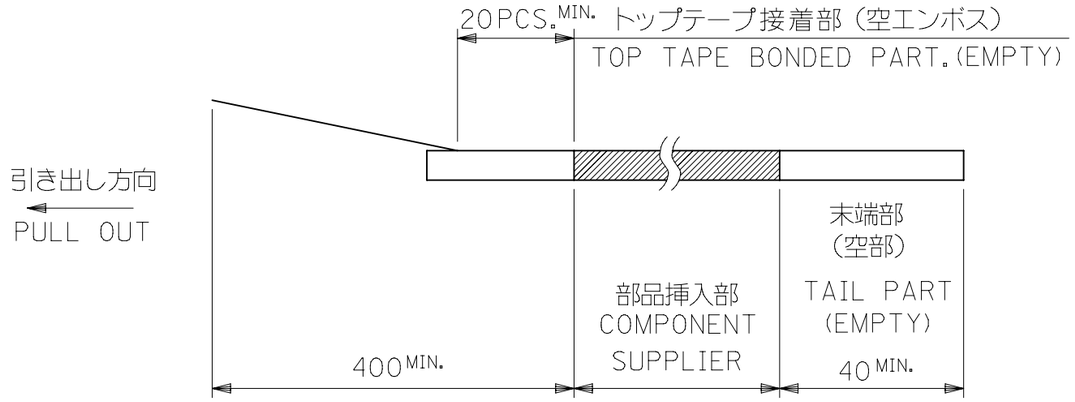
DOCUMENT STATUS	P1	RELEASE DATE	2018/05/14 04:50:40

FORMAT: master-lb-prod-A3
REVISION: H
DATE: 2018/01/18

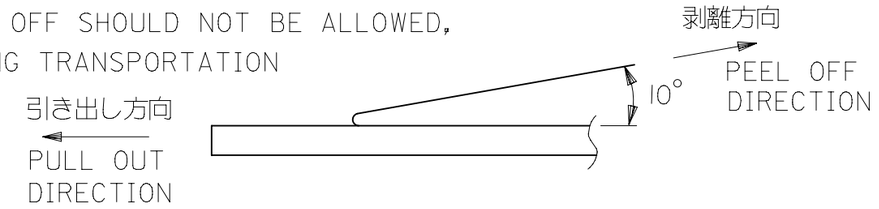


注記 NOTES

1. **梱包状態はアクチュエータがロックした状態とする。**
   IN THE PACKAGE, ACTUATOR SHOULD BE LOCKED.
2. 梱包数量：１０００個／リール
   NUMBER OF CONNECTORS:1000PCS/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：（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
   0.1N～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



5. 材料　　キャリアテープ：ポリプロピレン（ＰＰ）
   トップテープ：ＰＥＴ，ＰＥ，ＰＥＦ
   リール：ポリスチレン（ＰＳ）<リサイクル材を含む>

   MATERIAL CARRIER TAPE:POLYPROPYLENE
   TOP TAPE:PET,PE,PEF
   REEL:POLYSTYRENE (PS)
   <RECYCLE MATERIAL CONTAINED>

6. **本製品は52559-**53のエンボステープ違い品である。**
   THIS PRODUCT IS EMBOSSED TAPE DIFFERENCE ARTICLE OF 52559-**53.
7. **本製品は乾燥剤入り、ハイバリア梱包仕様である。**
   THIS PRODUCT IS HIGH BARRIER PACKAGE WITH DESICCANT.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 3.0 °
4 PLACES	± 0.2
3 PLACES	± 0.2
2 PLACES	± 0.2
1 PLACE	± 0.25
0 PLACES	± 0.3

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 176518
DRWN: TNAKAGAWA01 2018/05/09
CHK'D: RTAKEUCHI 2018/05/14
APPR: RTAKEUCHI 2018/05/14

INITIAL REVISION:
DRWN: MNABEI 2004/07/14
APPR: NUKITA 2004/07/14

molex

0.5 FPC CONN ASSY ZIF
FOR SMT EMBSTP PKG -LEAD FREE-

PRODUCT CUSTOMER DRAWING

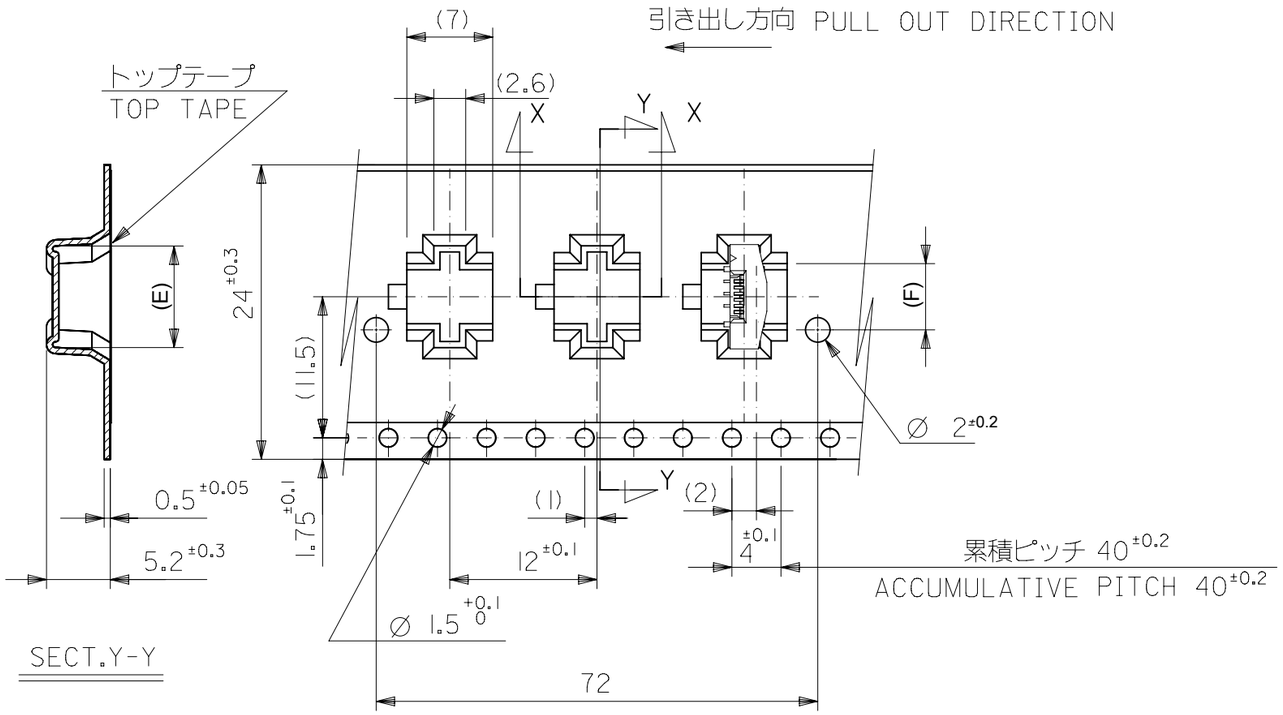
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-52559-049	PSD	001	L

THIRD ANGLE PROJECTION	DRAWING	SERIES
	A3-SIZE	52559

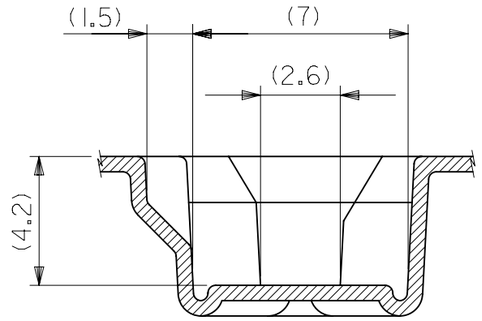
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 4-6	GENERAL MARKET	3 OF 6

DOCUMENT STATUS	P1	RELEASE DATE	2018/05/14 04:50:40

FORMAT: master_mod-A3
REVISION: H
DATE: 2018/01/15



SECT.Y-Y



SECT.X-X

24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

CARRIER TAPE WIDTH	H	G	(F)	(E)	ORDER No.	CKT.
24	29.4	25.4	14.4	17.3	52559-2452	24
			13.9	16.8	52559-2352	23
			12.9	15.8	52559-2152	21
			12.4	15.3	52559-2052	20
			10.9	13.8	52559-1752	17
			10.4	13.3	52559-1652	16
			9.9	12.8	52559-1552	15
			9.4	12.3	52559-1452	14
			8.4	11.3	52559-1252	12
			7.4	10.3	52559-1052	10
			6.9	9.8	52559-0952	9
			5.4	8.3	52559-0652	6

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	mm
SCALE	~~1:1~~
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 3.0 °
4 PLACES	± 0.2
3 PLACES	± 0.2
2 PLACES	± 0.2
1 PLACE	± 0.25
0 PLACES	± 0.3
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC:

EC NO: 176518
DRWN: TNAKAGAWA01 2018/05/09
CHK'D: RTAKEUCHI 2018/05/14
APPR: RTAKEUCHI 2018/05/14

INITIAL REVISION:
DRWN: MNABEI 2004/07/14
APPR: NUKITA 2004/07/14

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 52559

molex

0.5 FPC CONN ASSY ZIF
FOR SMT EMBSTP PKG -LEAD FREE-

PRODUCT CUSTOMER DRAWING

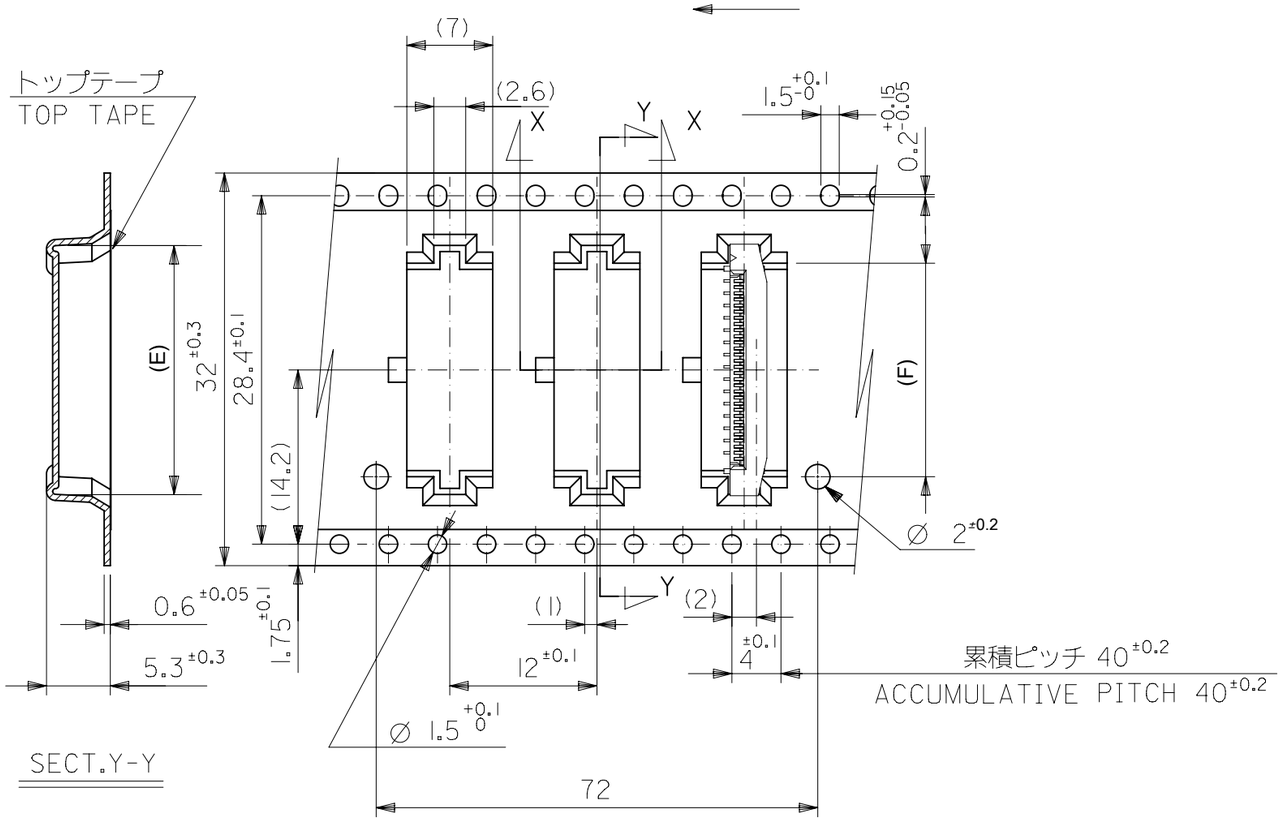
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-52559-049	PSD	001	L

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	4 OF 6

DOCUMENT STATUS	P1	RELEASE DATE	2018/05/14 04:50:40

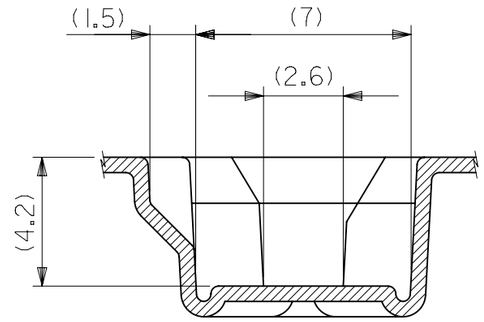
FORMAT: master_Portrait-A3
REVISION: H
DATE: 2018/01/16

引き出し方向 PULL OUT DIRECTION



SECT.Y-Y

累積ピッチ $40^{\pm0.2}$
ACCUMULATIVE PITCH $40^{\pm0.2}$



SECT.X-X

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

32	37.4	33.4	18.4	21.3	52559-3252	32
			17.4	20.3	52559-3052	30
			16.4	19.3	52559-2852	28
			15.9	18.8	52559-2752	27
			15.4	18.3	52559-2652	26
CARRIER TAPE WIDTH	H	G	(F)	(E)	ORDER No.	CKT.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	3.0 °
4 PLACES	±	0.2
3 PLACES	±	0.2
2 PLACES	±	0.2
1 PLACE	±	0.25
0 PLACES	±	0.3

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 176518
DRWN: TNAKAGAWA01 2018/05/09
CHK'D: RTAKEUCHI 2018/05/14
APPR: RTAKEUCHI 2018/05/14

INITIAL REVISION:
DRWN: MNABEI 2004/07/14
APPR: NUKITA 2004/07/14

molex

0.5 FPC CONN ASSY ZIF
FOR SMT EMBSTP PKG -LEAD FREE-

PRODUCT CUSTOMER DRAWING

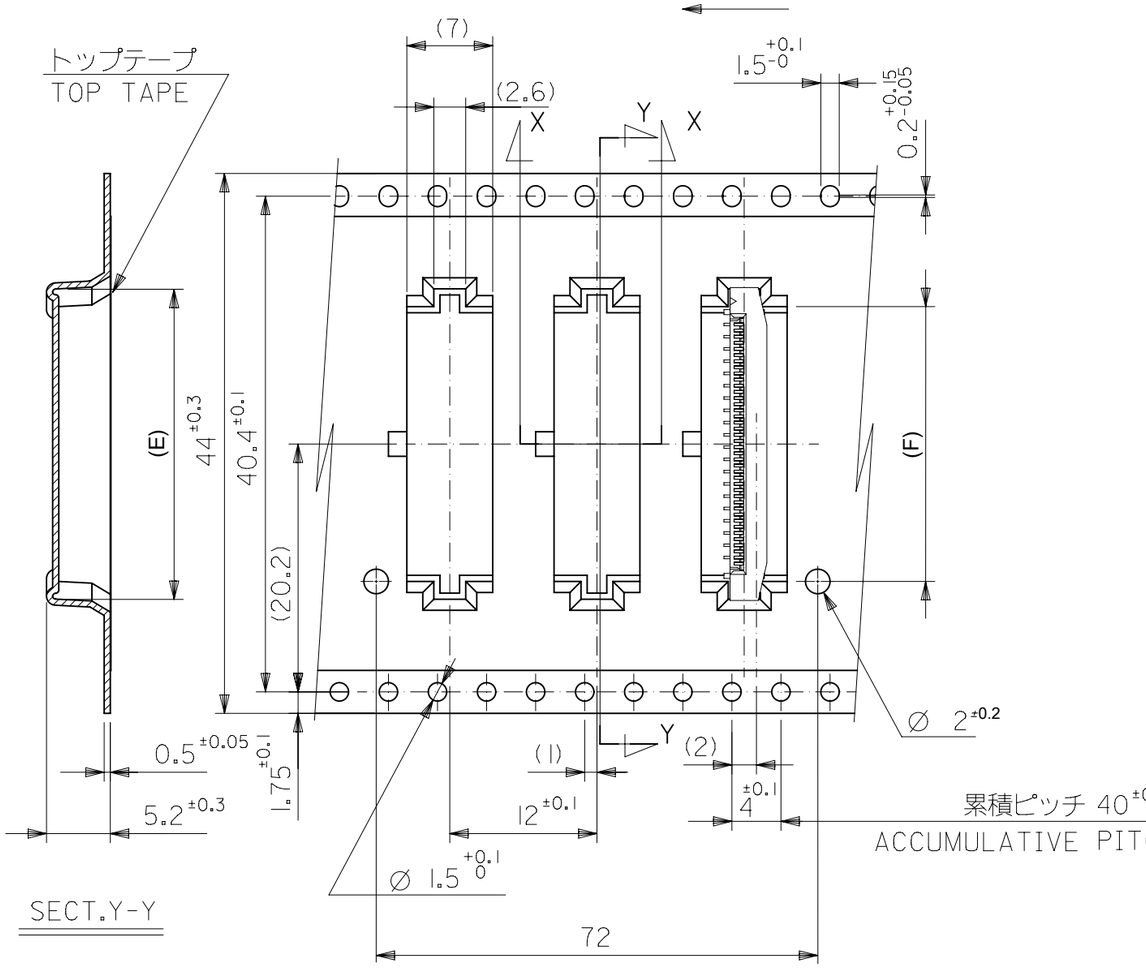
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-52559-049	PSD	001	L

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	52559	SEE TABLE	GENERAL MARKET	5 OF 6

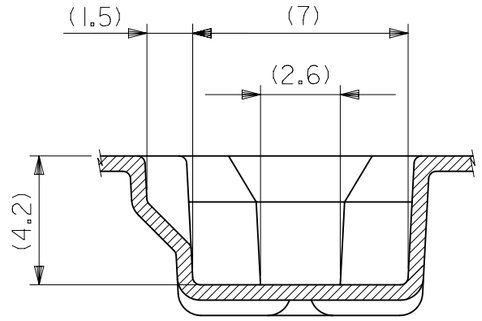
DOCUMENT STATUS	P1	RELEASE DATE	2018/05/14 04:50:40

FORMAT: master_Bmod-A3
REVISION: H
DATE: 2018/01/16

引き出し方向 PULL OUT DIRECTION



SECT.Y-Y



SECT.X-X

44mm幅キャリアテープ
44mm WIDTH CARRIER TAPE

44	49.4	45.4	22.4	25.3	52559-4052	40
			20.4	23.3	52559-3652	36
CARRIER TAPE WIDTH	H	G	(F)	(E)	ORDER No.	CKT.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	mm
SCALE	1:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 3.0 °
4 PLACES	± 0.2
3 PLACES	± 0.2
2 PLACES	± 0.2
1 PLACE	± 0.25
0 PLACES	± 0.3
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC:

EC NO: 176518
DRWN: TNAKAGAWA01 2018/05/09
CHK'D: RTAKEUCHI 2018/05/14
APPR: RTAKEUCHI 2018/05/14

INITIAL REVISION:
DRWN: MNABEI 2004/07/14
APPR: NUKITA 2004/07/14

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 52559

molex

0.5 FPC CONN ASSY ZIF
FOR SMT EMBSTP PKG -LEAD FREE-

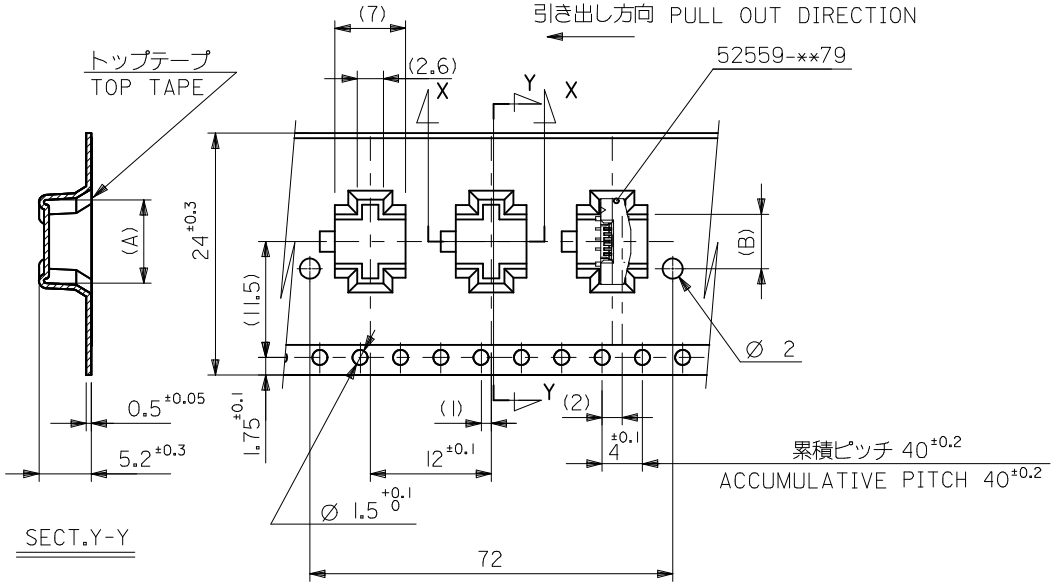
PRODUCT CUSTOMER DRAWING

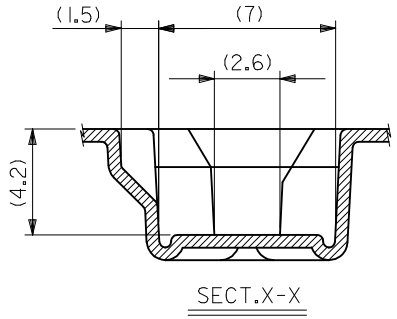
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SD-52559-049	PSD	001	L

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	6 OF 6

DOCUMENT STATUS	P1	RELEASE DATE	2018/05/14 04:50:40

FORMAT: master_Sheet-A3
REVISION: H
DATE: 2018/01/16





24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

キャリアテープ幅 CARRIER TAPE WIDTH	D	C	(B)	(A)	MATERIAL NO.	CIRCUIT NO.
24	29.4	25.4	14.4	17.3	52559-2452	24
			13.9	16.8	52559-2352	23
			12.9	15.8	52559-2152	21
			12.4	15.3	52559-2052	20
			10.9	13.8	52559-1752	17
			10.4	13.3	52559-1652	16
			9.9	12.8	52559-1552	15
			9.4	12.3	52559-1452	14
			8.4	11.3	52559-1252	12
			7.4	10.3	52559-1052	10
			6.9	9.8	52559-0952	9
			5.4	8.3	52559-0652	6

REVISED
EC NO: J2016-0020 2015/07/06
DRWN:YUHASEGAWA 2015/07/10
CH'KD:
APPR:YNOGAWA
DESCRIPTION
REV
K

GENERAL TOLERANCES (UNLESS SPECIFIED)

0.25	UNDER	UNDER	±0.03
0.25	OVER	0.5 UNDER	±0.05
0.5	OVER	1.0 UNDER	±0.1
1.0	OVER	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: MNABEI DATE: '04/07/13
CHECKED BY: KTOJO DATE: '04/07/13
APPROVED BY: NUKITA DATE: '04/07/13
MATERIAL NO.: SEE CHART

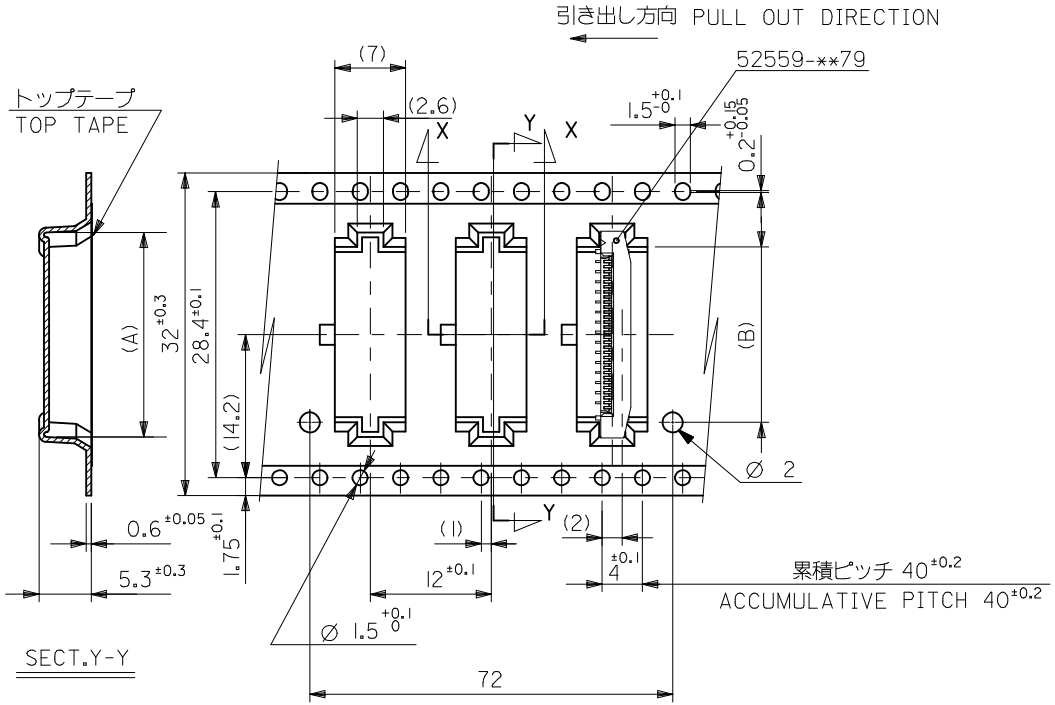
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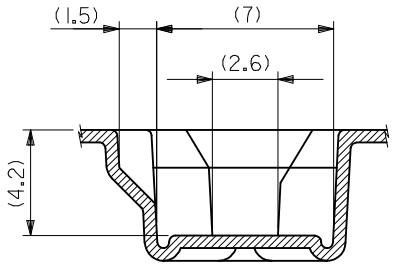
molex

DOCUMENT NO.: SD-52559-049
SHEET NO.: 2 OF 4

SIZE A3

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SECT.X-X

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

キャリアテープ幅 CARRIER TAPE WIDTH	D	C	(B)	(A)	MATERIAL NO.	CIRCUIT NO.
32	37.4	33.4	18.4	21.3	52559-3252	32
			17.4	20.3	52559-3052	30
			16.4	19.3	52559-2852	28
			15.9	18.8	52559-2752	27
			15.4	18.3	52559-2652	26

REVISED
EC NO: J2016-0020 2015/07/06
DRWN:YUHASEGAWA 2015/07/10
CH'KD:
APPR:YNOGAWA
DESCRIPTION
REV
K

GENERAL TOLERANCES (UNLESS SPECIFIED)

0.25	UNDER	UNDER	±0.03
0.25	OVER	0.5 UNDER	±0.05
0.5	OVER	1.0 UNDER	±0.1
1.0	OVER	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

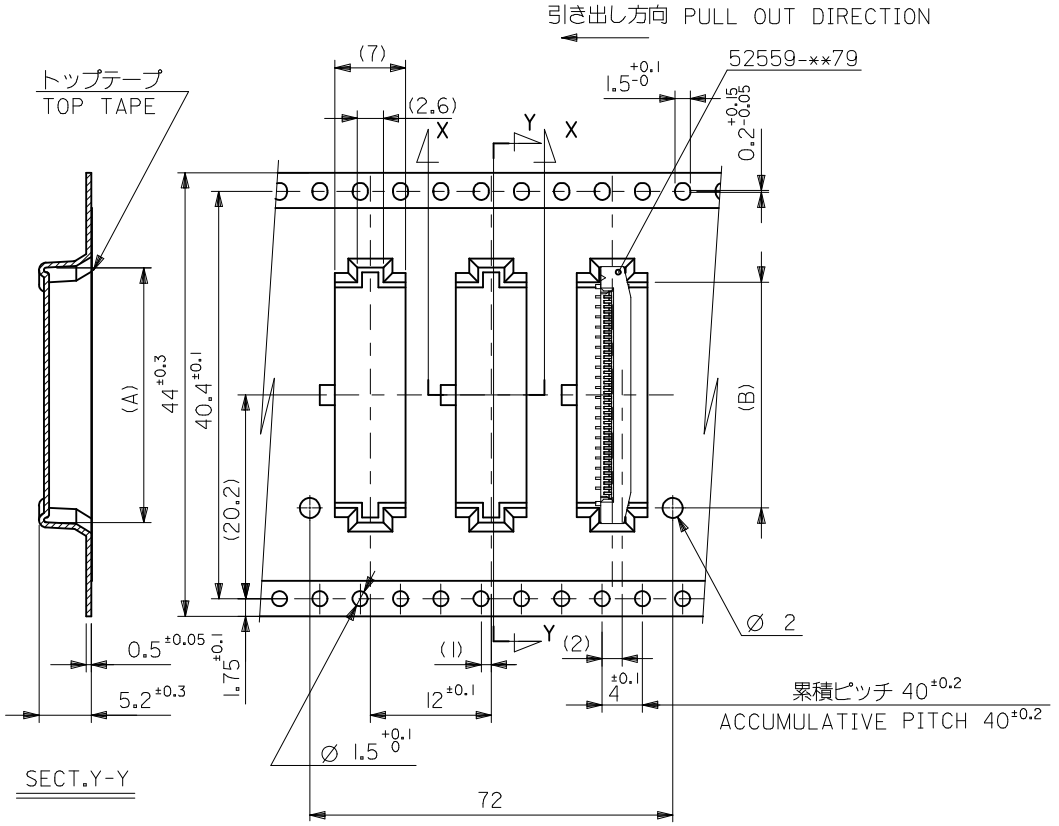
DRAWN BY: MNABEI DATE: '04/07/13
CHECKED BY: KTOJO DATE: '04/07/13
APPROVED BY: NUKITA DATE: '04/07/13
MATERIAL NO.: SEE CHART

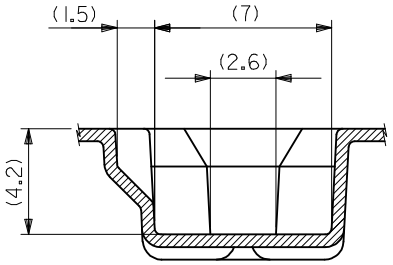
TITLE: 0.5 FPC CONN ASSY ZIF FOR SMT EMBSTP PKG -LEAD FREE-

molex

DOCUMENT NO.: SD-52559-049
SHEET NO.: 3 OF 4
SIZE: A3

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44mm幅キャリアテープ

44mm WIDTH CARRIER TAPE

キャリアテープ幅 CARRIER TAPE WIDTH	D	C	(B)	(A)	MATERIAL NO.	CIRCUIT NO.
44	49.4	45.4	22.4	25.3	52559-4052	40
			20.4	23.3	52559-3652	36

REVISED	EC NO:	DESCRIPTION	REV
DRWN:YUHASEGAWA 2015/07/06	J2016-0020		K
CH'KD:			
APPR:YNOGAWA 2015/07/10			

GENERAL TOLERANCES (UNLESS SPECIFIED)

0.25	UNDER	UNDER	±0.03
0.25	OVER	0.5 UNDER	±0.05
0.5	OVER	1.0 UNDER	±0.1
1.0	OVER	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: MNABEI	DATE: '04/07/13	TITLE: 0.5 FPC CONN ASSY ZIF FOR SMT EMBSTP PKG -LEAD FREE-	
CHECKED BY: KTOJO	DATE: '04/07/13		
APPROVED BY: NUKITA	DATE: '04/07/13	molex	
MATERIAL NO.: SEE CHART		DOCUMENT NO.: SD-52559-049	SHEET NO.: 4 OF 4
SIZE: A3			

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