

**注記 NOTES**

- 材質 MATERIAL**  
 ハウジング: ポリアミド (PA)、ガラス充填、ナチュラル (白)、UL94V-0  
 HOUSING: POLYAMIDE, GLASS FILLED, NATURAL, UL94V-0  
 アクチュエータ: ポリフェニレンサルファイド (PPS)、ガラス充填、ナチュラル、UL94V-0  
 ACTUATOR: POLYPHENYLENE SULFIDE, GLASS FILLED, NATURAL (BROWN), UL94V-0  
 ターミナル: 銅合金 (t = 0.2)  
 TERMINAL: COPPER ALLOY (t = 0.2)  
 金具: 銅合金 (t = 0.4)  
 NAIL: COPPER ALLOY (t = 0.4)
  - めっき仕様 PLATING**  
 ターミナル TERMINAL  
 錫銀ビスマスめっき (1.0 μm以上)  
 下地: ニッケルめっき (1.0 μm以上)  
 TIN SILVER BISMUTH PLATING  
 (1.0 MICROMETER MINIMUM)  
 UNDER PLATE: NICKEL PLATING  
 (1.0 MICROMETER MINIMUM)  
 金具 FITTING NAIL  
 錫めっき (1.0 μm以上)  
 下地: ニッケルめっき (1.0 μm以上)  
 TIN PLATING  
 (1.0 MICROMETER MINIMUM)  
 UNDER PLATE: NICKEL PLATING  
 (1.0 MICROMETER MINIMUM)
- ⚠ ソルダーテ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  $\square$  に対し上方向0.05MAXIMUM、下方向0.15MAXIMUMとする。  
 MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM  $\square$   
 UPPER DIRECTION: 0.05MAXIMUM  
 LOWER DIRECTION: 0.15MAXIMUM.
- ⚠ 偶数極に適用。  
 APPLY FOR EVEN CIRCUIT.
- ⚠ パターンはくり止め用金具。  
 FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.
- ⚠ R0.3は、FPCの導体部にカカらないこと。  
 R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.
- エンボステーパ梱包時は、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-\*\*-22 SHOULD BE LOCKED.
  - ソルダーテールの平坦度は、0.12 MAXIMUMとする。  
 SOLDER TAIL COPLANARITY IS 0.12 MAXIMUM.
  - ELV及びRoHS適合品  
 ELV AND RoHS COMPLIANT.

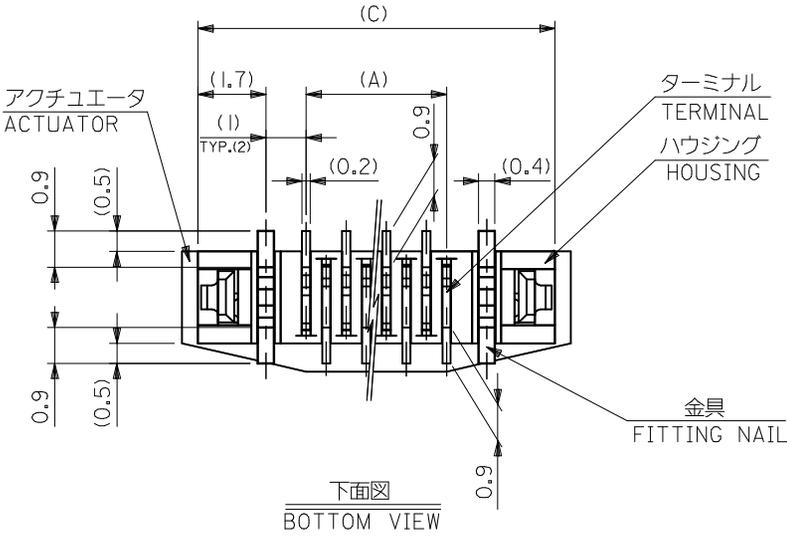
REVISED EC NO: J2013-1168 DRWN: NKONDO 2013/03/19 CHKD: KTAKAHASHI 2013/03/19 APPR: KMORIKAWA 2013/04/25	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			MM ONLY	---	METRIC	
	10 UNDER	±0.2	DRAWN BY	DATE	TITLE	
	10 OVER 30 UNDER	±0.25	AISHII	2012/09/05	0.5MM FPC CONN ZIF S/T HOUSING ASSY	
30 OVER	±0.3	CHECKED BY	DATE			
		KTAKAHASHI	2012/09/05			
		APPROVED BY	DATE			
		KMORIKAWA	2013/03/15			
		MATERIAL NO.	SEE CHART		DOCUMENT NO.	SHEET NO.
					SD-52559-057	1 OF 2
		SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
		A3				

FPC/FFCについて ABOUT FPC/FFC

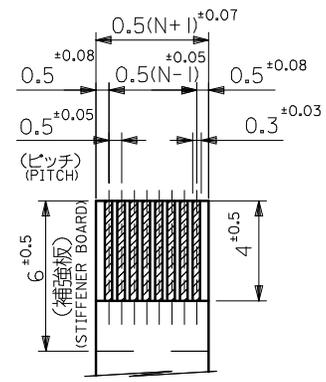
打ち抜き方向は導体側から補強板側を推奨します。  
 導体部については軟箔銅35μmまたは50μmを推奨します。  
 RECOMMENDED PUNCHING DIRECTION: FROM CONDUCTOR SIDE TO STIFFENER SIDE  
 RECOMMENDED CONDUCTOR SPEC: SOFT COPPER FOIL  
 RECOMMENDED CONDUCTOR THICKNESS: 35 MICROMETER OR 50 MICROMETER

FPCについてABOUT FPC

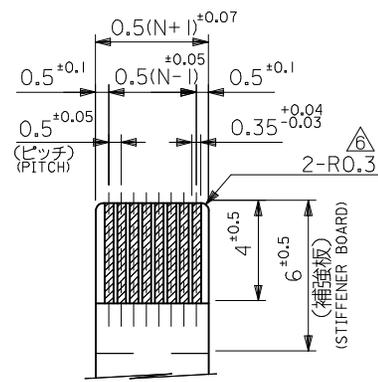
補強フィルム材質はポリイミドを推奨します。ベースフィルムは25μmを推奨します。  
 接着剤は熱硬化接着剤を推奨します。  
 尚、接着剤の接点部への付着は導通不良の原因になりますので、染み出しが無い様、お願い致します。  
 RECOMMENDED STIFFENER MATERIAL: POLYIMIDE  
 RECOMMENDED BASE FILM THICKNESS: 25 MICROMETER  
 RECOMMENDED ADHESIVE: THERMOSETTING ADHESIVE  
 NOTE: PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON ADHEREND BECAUSE THERE IS A POSSIBILITY THAT THE EXTRA ADHESIVE CAUSES THE DEFECT IN ELECTRICAL CONTINUITY.



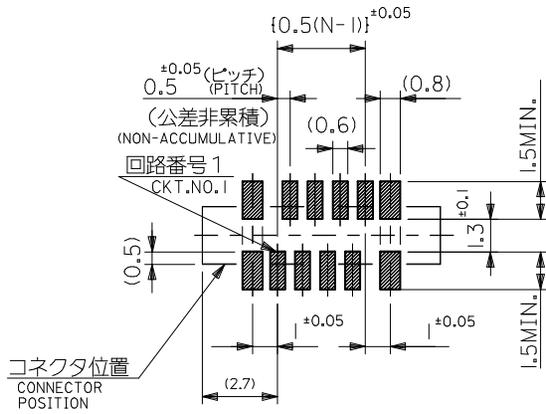
下面図  
BOTTOM VIEW



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)



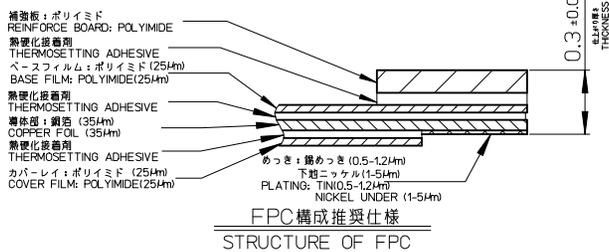
適合FPC推奨寸法  
APPLICABLE FPC  
RECOMMENDED DIMENSION.  
(仕上がり厚さ: 0.3±0.05)  
(THICKNESS: 0.3±0.05)



推奨基板レイアウト  
(マウント面)  
RECOMMENDED P.C.BOARD  
PATTERN DIMENSION  
(MOUNTING SIDE)  
マスク厚 : 150μm  
マスク開口率 : 100%  
SCREEN THICKNESS : 150μm  
SCREEN OPEN RATIO : 100%

26.7	25.9	21.65	20.5	52559-4233		42			
25.7	24.9	20.65	19.5	52559-4033		40			
23.7	22.9	18.65	17.5	-3633		36			
22.2	21.4	17.15	16.0		-3334	33			
21.7	20.9	16.65	15.5		-3233	32			
20.7	19.9	15.65	14.5		-3033	30			
19.7	18.9	14.65	13.5		-2833	-2834	28		
19.2	18.4	14.15	13.0		-2733		27		
18.7	17.9	13.65	12.5		-2633		26		
18.2	17.4	13.15	12.0			-2534	25		
17.7	16.9	12.65	11.5		-2433	-2434	24		
17.2	16.4	12.15	11.0		-2333		23		
16.7	15.9	11.65	10.5			-2234	22		
16.2	15.4	11.15	10.0		-2133		21		
15.7	14.9	10.65	9.5		-2033	-2034	20		
14.7	13.9	9.65	8.5			-1834	18		
14.2	13.4	9.15	8.0			-1733	17		
13.7	12.9	8.65	7.5			-1633	-1634	16	
13.2	12.4	8.15	7.0			-1533		15	
12.7	11.9	7.65	6.5			-1433	-1434	14	
12.2	11.4	7.15	6.0				-1334	13	
11.7	10.9	6.65	5.5			-1233		12	
10.7	9.9	5.65	4.5			-1033		10	
10.2	9.4	5.15	4.0				-0933	9	
9.7	8.9	4.65	3.5					-0834	8
8.7	7.9	3.65	2.5						6
				52559-0633					
				EMBOSSED PACKAGE		極数			
				ORDER No.		CKT.			

CONNECTOR SERIES NO. : 52559-\*\*22



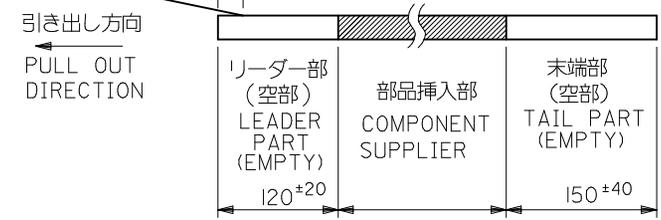
FPC構成推奨仕様  
STRUCTURE OF FPC

REVISED EC NO: J2013-1168 DRWN:KONDO 2013/03/15 CHKD:KAKAHASHI 2013/03/19 APPR:KMORIKAWA 2013/04/25	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
	10 UNDER	±0.2	DRAWN BY AISHII	DATE 2012/09/05	TITLE 0.5MM FPC CONN ZIF S/T HOUSING ASSY				
	10 OVER 30 UNDER	±0.25	CHECKED BY KAKAHASHI	DATE 2012/09/05					
	30 OVER	±0.3	APPROVED BY KMORIKAWA	DATE 2013/03/15					
ANGULAR ±3°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		DOCUMENT NO. SD-52559-057		SHEET NO. 2 OF 2	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

注記 NOTES

1. 製品番号52559-\*\*-22の梱包状態は、アクチュエータをロックした状態とする。  
 詳細寸法については、図面SD-52559-057を参照ください。  
 IN THE PACKAGE,ACTUATOR OF PART NO.52559-\*\*-22 SHOULD BE LOCKED RE DETAILED DIMENSIONS,SEE SD-52559-057.

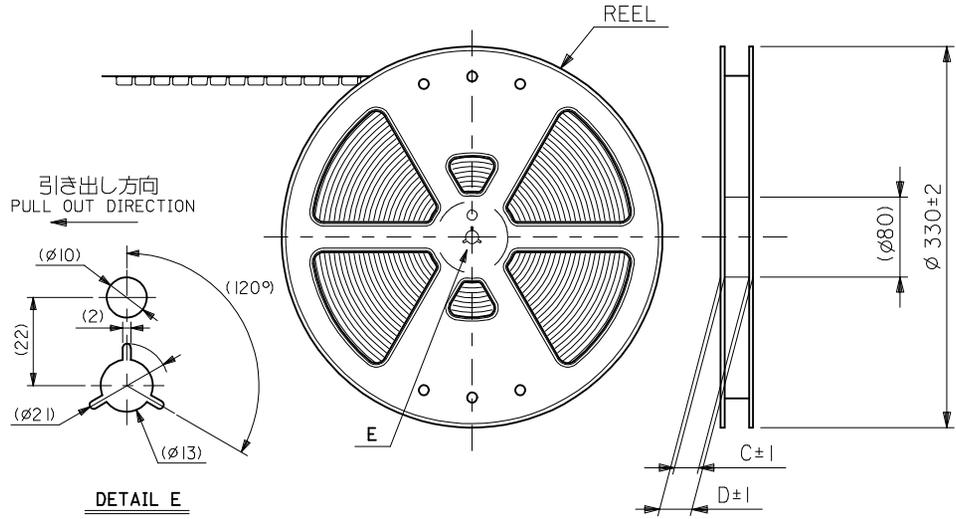
2. 梱包数量：1000個/リール  
 NUMBER OF CONNECTORS:1000PCS/REEL



4. トップテープの剥離強度については、IEC60286-3に準拠  
 TOP TAPE PEEL FORCE IS DEFINED BY IEC60286-3.

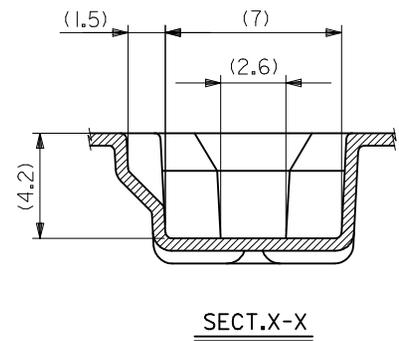
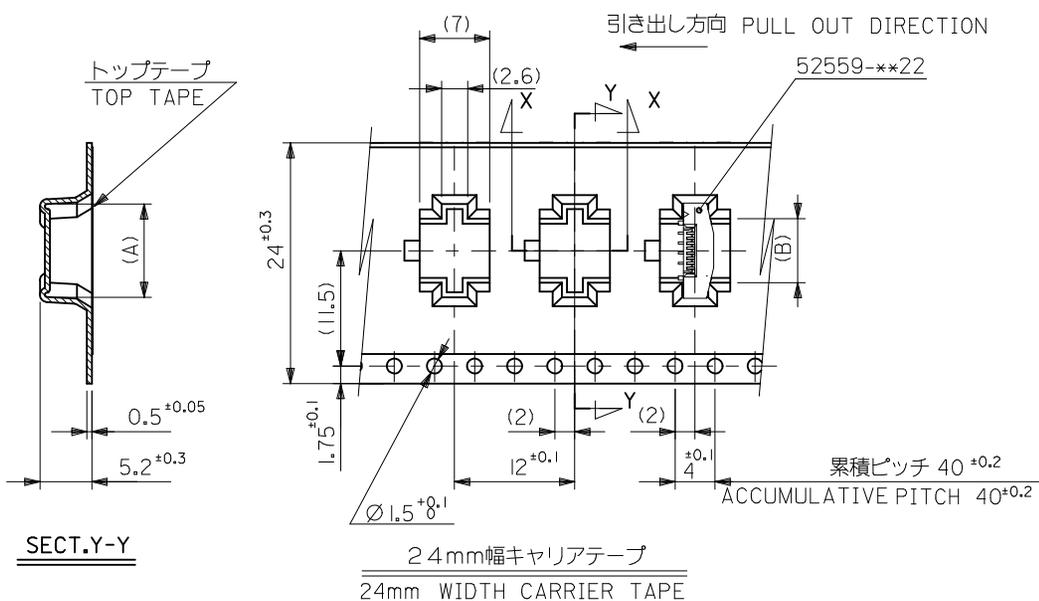
5. 材料 キャリアテープ：ポリプロピレン (PP)  
 トップテープ：PET, PE, PEF  
 リール：ポリスチレン (PS) <リサイクル材を含む>  
 MATERIAL CARRIER TAPE:POLYPROPYLENE  
 TOP TAPE:PET,PE,PEF  
 REEL:POLYSTYRENE(PS)  
 <RECYCLE MATERIAL CONTAINED>

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.



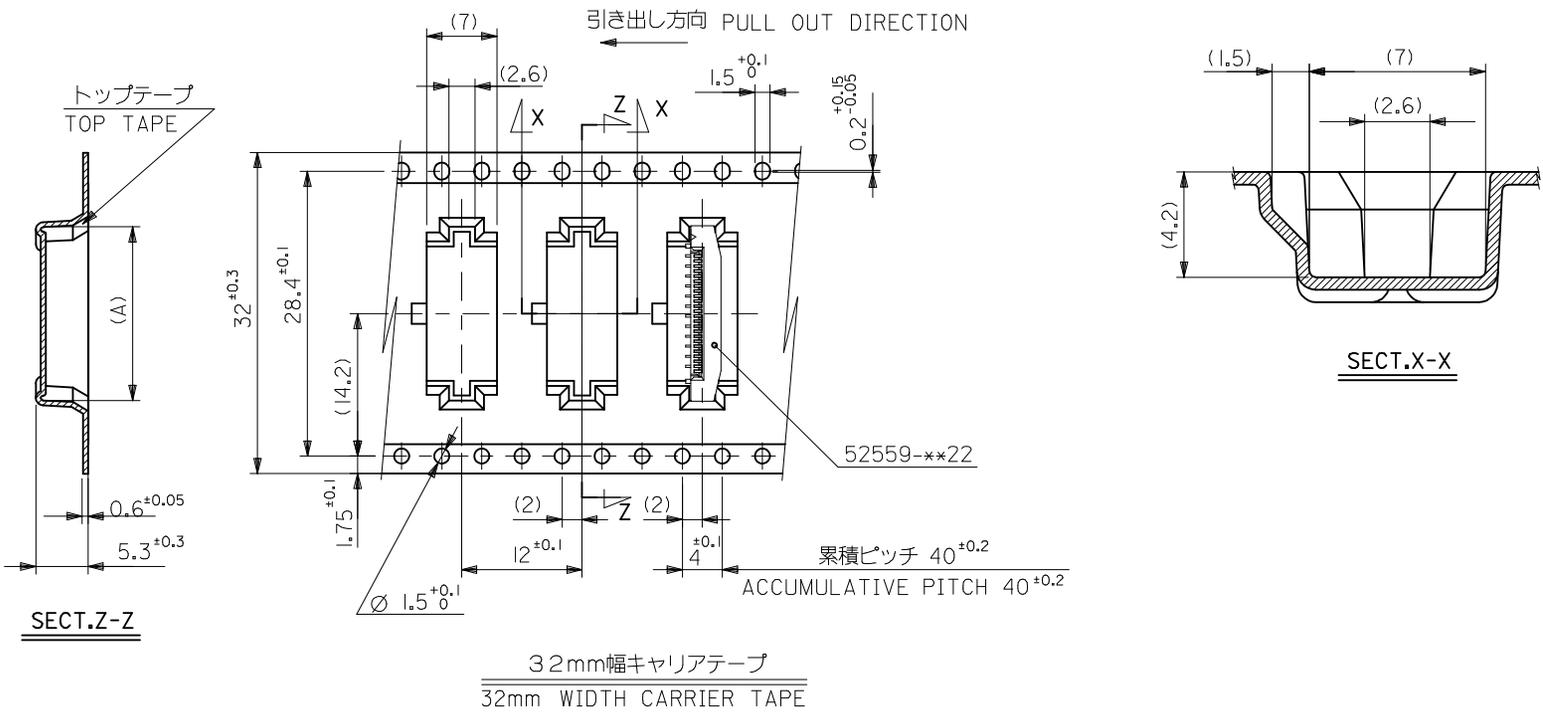
DETAIL E

REVISED EC NO: J2013-1168 DRWN:NASANUMA 2013/04/16 CHKD:KAKAHASHI 2013/04/16 APPR:KMORIKAWA 2013/04/25	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	MODEL NO. 52559-**-34	THIRD ANGLE PROJECTION
		10 UNDER	±0.2	DRAWN BY NASANUMA	DATE 2013/02/23	TITLE EMBOSS TAPE PACKAGED FOR 0.5MM FPC CONN ZIF/ S/T HOUSING ASSY			
		10 OVER 30 UNDER	±0.25	CHECKED BY KAKAHASHI	DATE 2013/02/25				
		30 OVER	±0.3	APPROVED BY KMORIKAWA	DATE 2013/03/15				
ANGULAR ±3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-52559-059		SHEET NO. 1 OF 3	
SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



24	29.4	25.4	13.4	16.3	52559-2234	22
			12.4	15.3	52559-2034	20
			11.4	14.3	52559-1834	18
			10.4	13.3	52559-1634	16
			9.4	12.3	52559-1434	14
			8.9	11.8	52559-1334	13
			6.4	9.3	52559-0834	8

SEE SHEET 1 OF 3	EC NO: J2013-1168 DRWN:NASUNUMA 2013/04/16 CHKD:KTAHASHI 2013/04/16 APPR:KMORIKAWA 2013/04/25	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			10 UNDER	±0.2	MM ONLY	---	METRIC	☉	
			10 OVER 30 UNDER	±0.25					
			30 OVER	±0.3					
			ANGULAR	±3 °					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						
					DRAWN BY	DATE	TITLE		
					NASANUMA	2013/02/23	EMBOSS TAPE PACKAGED FOR 0.5MM FPC CONN ZIF S/T HOUSING ASSY		
					CHECKED BY	DATE			
					KTAHASHI	2013/02/23			
					APPROVED BY	DATE			
					KMORIKAWA	2013/03/15			
					MATERIAL NO.		DOCUMENT NO.	SHEET NO.	
					SEE CHART		SD-52559-059	2 OF 3	
					SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
					A3				



32mm幅キャリアテープ  
32mm WIDTH CARRIER TAPE

32	37.4	33.4	18.9	21.8	52559-3334	33
			16.4	19.3	52559-2834	28
			14.9	17.8	52559-2534	25
			14.4	17.3	52559-2434	24

SEE SHEET 1 OF 3 EC NO: J2013-1168 DRWN:NASANUMA 2013/04/16 CHKD:KTAKAHASHI 2013/04/16 APPR:KMORIKAWA 2013/04/25	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	MODEL No.52559-**-34 キャリアテープ幅 CARRIER TAPE WIDTH	D	C	(B)	(A)	MATERIAL NO.	種数 CIRCUIT		
		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION			
		DRAWN BY DATE NASANUMA 2013/02/23		TITLE EMBOSS PACKAGED FOR 0.5MM FPC CONN ZIF S/T HOUSING ASSY						
		CHECKED BY DATE KTAKAHASHI 2013/02/23		<b>molex</b> DOCUMENT NO. SD-52559-059 SHEET NO. 3 OF 3						
		APPROVED BY DATE KMORIKAWA 2013/03/15								
A	REV	SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						