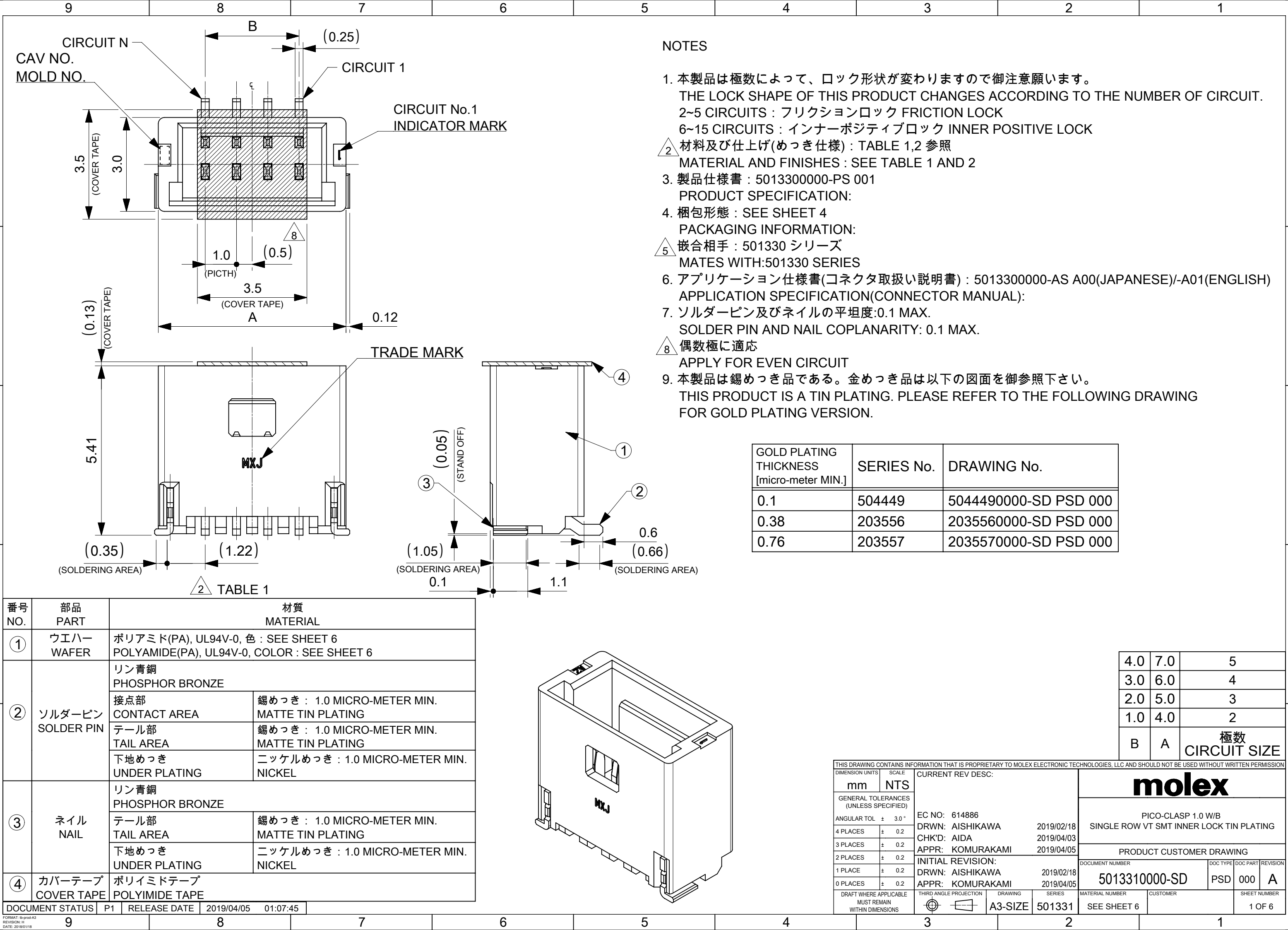




NOTES

1. 本製品は極数によって、ロック形状が変わりますので御注意願います。
THE LOCK SHAPE OF THIS PRODUCT CHANGES ACCORDING TO THE NUMBER OF CIRCUIT.
2~5 CIRCUITS : フリクションロック FRICTION LOCK
6~15 CIRCUITS : インナーポジティブロック INNER POSITIVE LOCK
2. 材料及び仕上げ(めっき仕様) : TABLE 1,2 参照
MATERIAL AND FINISHES : SEE TABLE 1 AND 2
3. 製品仕様書 : 5013300000-PS 001
PRODUCT SPECIFICATION:
4. 梱包形態 : SEE SHEET 4
PACKAGING INFORMATION:
5. 嵌合相手 : 501330 シリーズ
MATES WITH:501330 SERIES
6. アプリケーション仕様書(コネクタ取扱い説明書) : 5013300000-AS A00(JAPANESE)/-A01(ENGLISH)
APPLICATION SPECIFICATION(CONNECTOR MANUAL):
7. ソルダーピン及びネイルの平坦度:0.1 MAX.
SOLDER PIN AND NAIL COPLANARITY: 0.1 MAX.
8. 偶数極に適用
APPLY FOR EVEN CIRCUIT
9. 本製品は錫めっき品である。金めっき品は以下の図面を御参照下さい。
THIS PRODUCT IS A TIN PLATING. PLEASE REFER TO THE FOLLOWING DRAWING FOR GOLD PLATING VERSION.

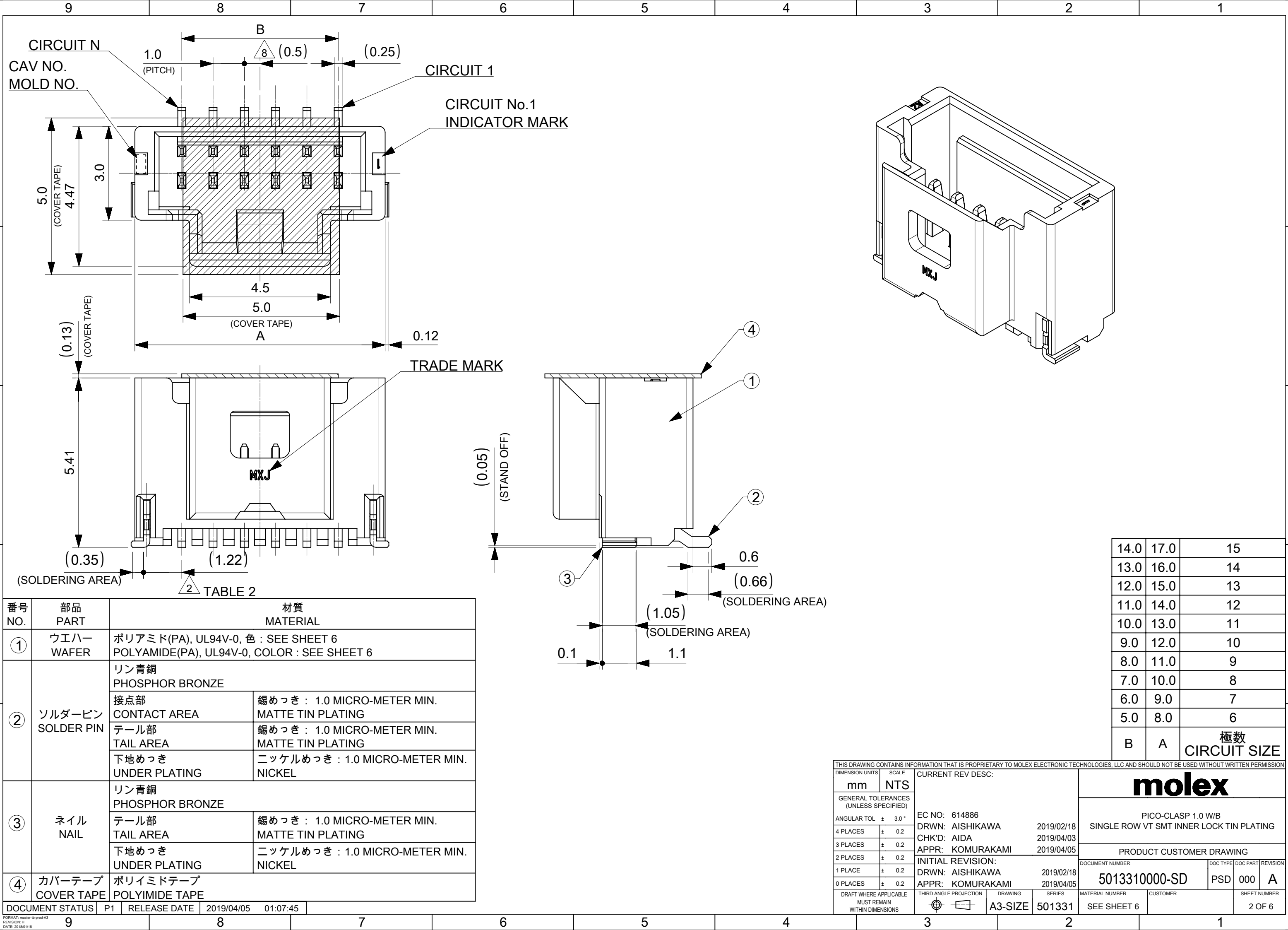
GOLD PLATING THICKNESS [micro-meter MIN.]	SERIES No.	DRAWING No.
0.1	504449	5044490000-SD PSD 000
0.38	203556	2035560000-SD PSD 000
0.76	203557	2035570000-SD PSD 000

番号 NO.	部品 PART	材質 MATERIAL
①	ウエハー WAFER	ポリアミド(PA), UL94V-0, 色 : SEE SHEET 6 POLYAMIDE(PA), UL94V-0, COLOR : SEE SHEET 6
②	ソルダーピン SOLDER PIN	リン青銅 PHOSPHOR BRONZE
		接点部 CONTACT AREA
		テール部 TAIL AREA
		下地めっき UNDER PLATING
③	ネイル NAIL	リン青銅 PHOSPHOR BRONZE
		テール部 TAIL AREA
		下地めっき UNDER PLATING
		ニッケルめっき : 1.0 MICRO-METER MIN. NICKEL
④	カバーテープ COVER TAPE	ポリイミドテープ POLYIMIDE TAPE

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4.0	7.0	5
3.0	6.0	4
2.0	5.0	3
1.0	4.0	2
B	A	極数 CIRCUIT SIZE

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		molex		
DIMENSION UNITS	SCALE	EC NO: 614886		PICO-CLASP 1.0 W/B		
mm	NTS	DRWN: AISHIKAWA		SINGLE ROW VT SMT INNER LOCK TIN PLATING		
GENERAL TOLERANCES (UNLESS SPECIFIED)		2019/02/18		PRODUCT CUSTOMER DRAWING		
ANGULAR TOL	± 3.0 °	CHK'D: AIDA		DOCUMENT NUMBER		
4 PLACES	± 0.2	2019/04/03		5013310000-SD		
3 PLACES	± 0.2	APPR: KOMURAKAMI		PSD 000 A		
2 PLACES	± 0.2	INITIAL REVISION:		CUSTOMER		
1 PLACE	± 0.2	DRWN: AISHIKAWA		SHEET NUMBER		
0 PLACES	± 0.2	2019/04/05		1 OF 6		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER
		⊙	A3-SIZE	501331	SEE SHEET 6	

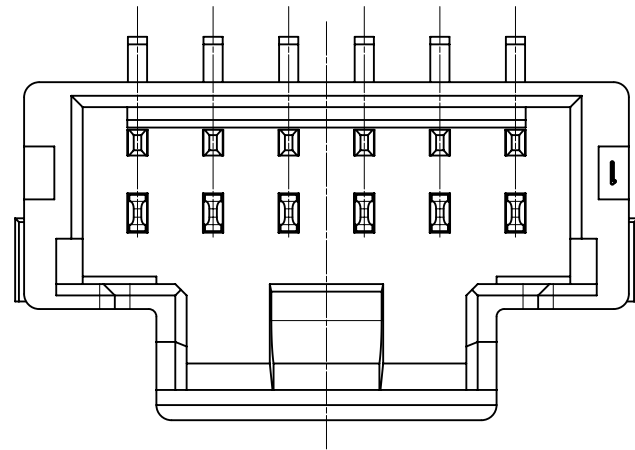


番号 NO.	部品 PART	材質 MATERIAL	
①	ウエハー WAFER	ポリアミド(PA), UL94V-0, 色 : SEE SHEET 6 POLYAMIDE(PA), UL94V-0, COLOR : SEE SHEET 6	
②	ソルダーピン SOLDER PIN	リン青銅 PHOSPHOR BRONZE	
		接点部 CONTACT AREA	錫めっき : 1.0 MICRO-METER MIN. MATTE TIN PLATING
		テール部 TAIL AREA	錫めっき : 1.0 MICRO-METER MIN. MATTE TIN PLATING
③	ネイル NAIL	リン青銅 PHOSPHOR BRONZE	
		テール部 TAIL AREA	錫めっき : 1.0 MICRO-METER MIN. MATTE TIN PLATING
		下地めっき UNDER PLATING	ニッケルめっき : 1.0 MICRO-METER MIN. NICKEL
④	カバーテープ COVER TAPE	ポリイミドテープ POLYIMIDE TAPE	

DOCUMENT STATUS	P1	RELEASE DATE	2019/04/05	01:07:45
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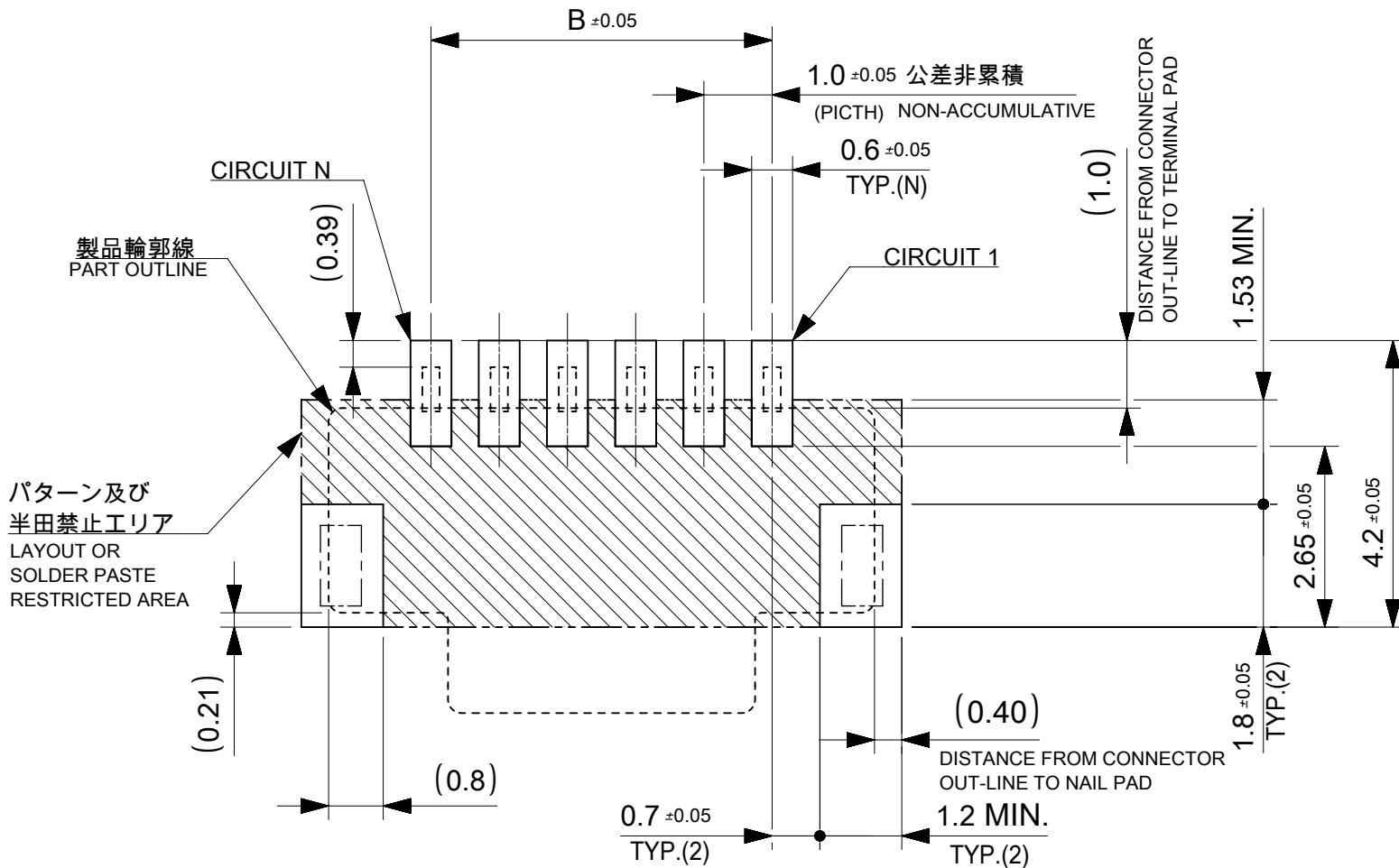
14.0	17.0	15
13.0	16.0	14
12.0	15.0	13
11.0	14.0	12
10.0	13.0	11
9.0	12.0	10
8.0	11.0	9
7.0	10.0	8
6.0	9.0	7
5.0	8.0	6
B	A	極数 CIRCUIT SIZE

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		molex		
DIMENSION UNITS	SCALE	EC NO: 614886		PICO-CLASP 1.0 W/B		
mm	NTS	DRWN: AISHIKAWA 2019/02/18		SINGLE ROW VT SMT INNER LOCK TIN PLATING		
GENERAL TOLERANCES (UNLESS SPECIFIED)		CHK'D: AIDA 2019/04/03		PRODUCT CUSTOMER DRAWING		
ANGULAR TOL	± 3.0 °	APPR: KOMURAKAMI 2019/04/05		INITIAL REVISION:		
4 PLACES	± 0.2	DRWN: AISHIKAWA 2019/02/18		DOCUMENT NUMBER		
3 PLACES	± 0.2	APPR: KOMURAKAMI 2019/04/05		5013310000-SD		
2 PLACES	± 0.2	INITIAL REVISION:		DOC TYPE	DOC PART	REVISION
1 PLACE	± 0.2	DRWN: AISHIKAWA 2019/02/18		PSD	000	A
0 PLACES	± 0.2	APPR: KOMURAKAMI 2019/04/05		SHEET NUMBER		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER
		⊕ ⊖	A3-SIZE	501331	SEE SHEET 6	2 OF 6



製品レイアウト(参考 : 6~15 CIRCUITS)
PRODUCT LAYOUT(REFERENCE: 6~15 CIRCUITS)

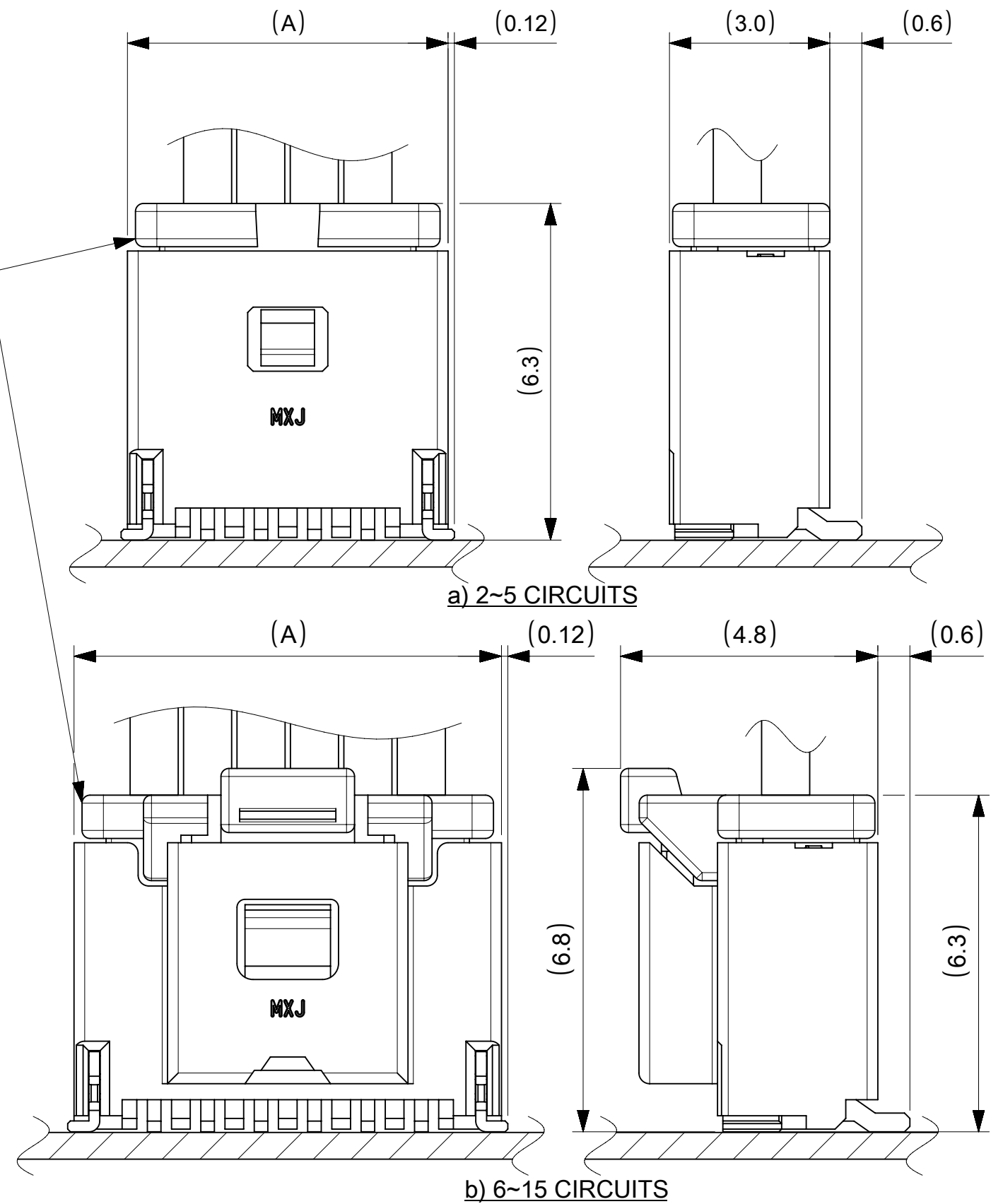
5 嵌合相手 : 501330 シリーズ
MATE WITH : 501330 SERIES



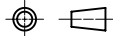
推奨基板レイアウト(全極数適応) : 実装面側
(参考 : 基板厚 1.0mm, メタルマスク厚さ 0.12mm, マスク開口率100%)

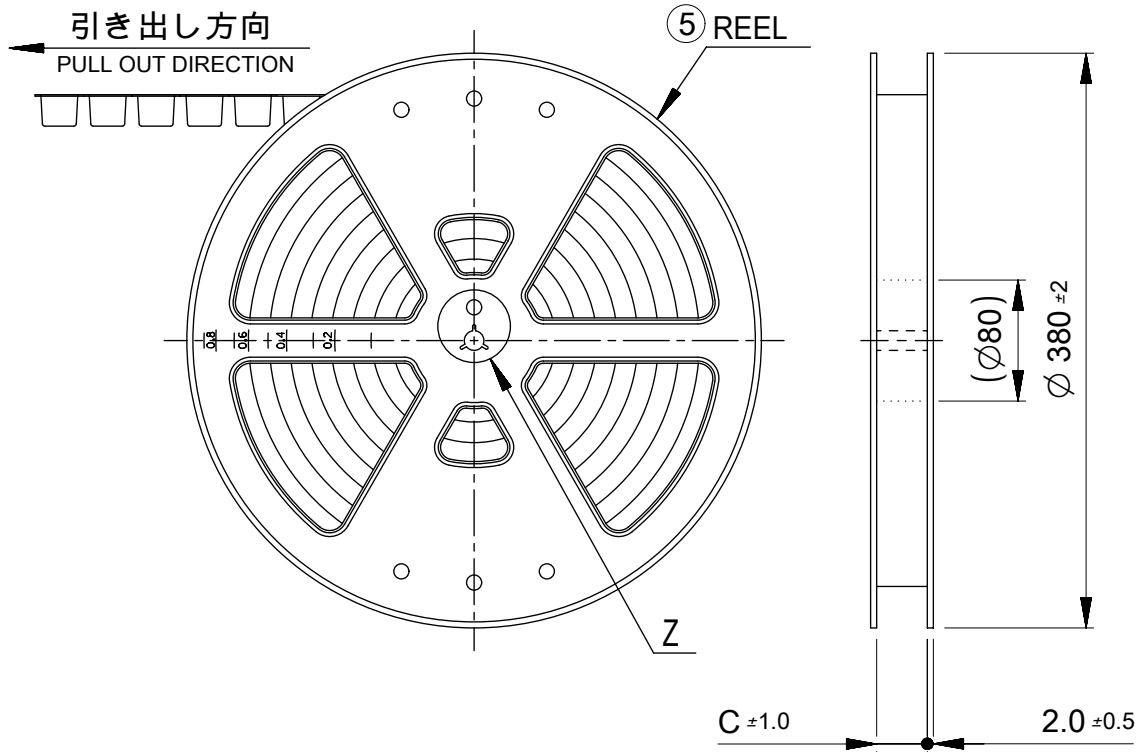
POLARIZED RECOMMENDED PCB LAYOUT(APPLY TO ALL CIRCUIT) : COMPONENT SIDE
(REFERENCE: PCB THICKNESS 1.0mm, STENCIL THICKNESS 0.12mm, APERTURE RATIO 100%)

 :パターン禁止エリア
RESTRICTED AREA
NO PCB COMPONENTS ALLOWED



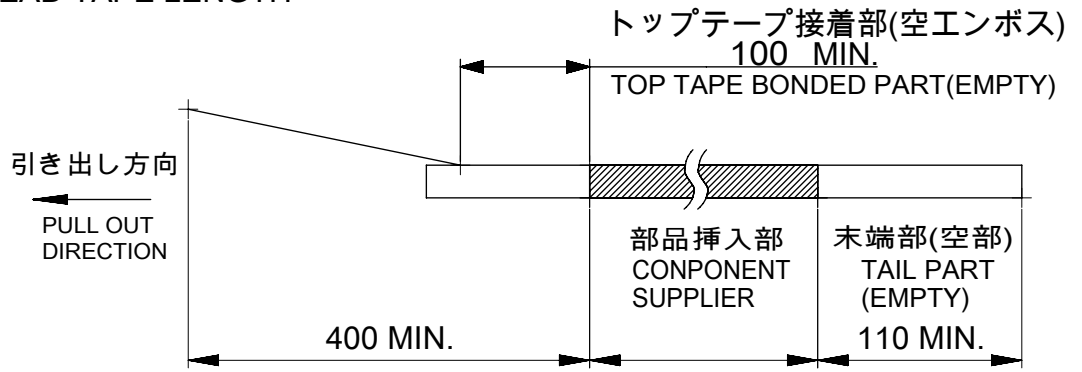
嵌合図
MATED CONNECTORS

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		molex		
DIMENSION UNITS	SCALE			PICO-CLASP 1.0 W/B SINGLE ROW VT SMT INNER LOCK TIN PLATING		
mm	NTS			PRODUCT CUSTOMER DRAWING		
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 614886		DOCUMENT NUMBER		
ANGULAR TOL	± 3.0 °	DRWN: AISHIKAWA 2019/02/18		5013310000-SD		DOC TYPE
4 PLACES	± 0.2	CHK'D: AIDA 2019/04/03		PSD		DOC PART
3 PLACES	± 0.2	APPR: KOMURAKAMI 2019/04/05		000		REVISION
2 PLACES	± 0.2	INITIAL REVISION:		A		
1 PLACE	± 0.2	DRWN: AISHIKAWA 2019/02/18		MATERIAL NUMBER		
0 PLACES	± 0.2	APPR: KOMURAKAMI 2019/04/05		SEE SHEET 6		SHEET NUMBER
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	CUSTOMER	
			A3-SIZE	501331	3 OF 6	

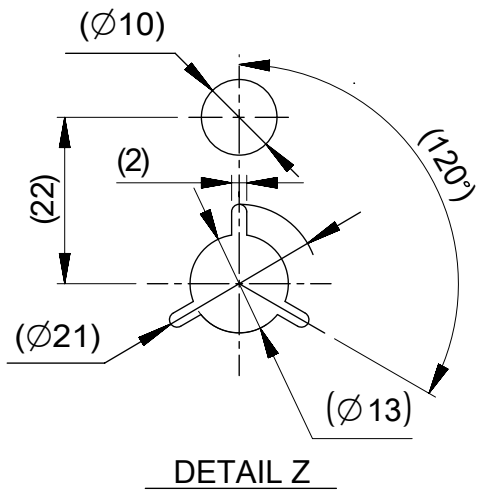


NOTES

- 10. 梱包数量:1100個/リール
NUMBER OF CONNECTORS : 1100 PIECES/REEL
- 11. リードテープ長さ
LEAD TAPE LENGTH



- 12. トップテープの剥離強度はIEC60286-3に準拠。
TOP TAPE PEELING FORCE IS DEFINED BY IEC60286-3.
- 13. 2~5極品は乾燥剤入り、ハイバリア梱包による納品となります。
2~5 CIRCUITS IS DELIVERED IN A HIGH BARIER PACKAGE WITH DESOCCANT.
- 14. 梱包仕様書 : SPK-501331-001
PACKAGE SPECIFICATION:
- 15. 発注番号 : SHEET 6 参照
ORDER No. : PLEASE REFER TO SHEET 6 FOR PRODUCT LIST.



501331 ** * *

極数 CIRCUIT SIZE	ハウジングカラー HOUSING COLOR	製品識別番号 IDENTIFICATION NUMBER
	0:NATURAL(BEIGE)	7:EMBOSSED PACKAGE

33.4	15
	14
	13
25.4	12
	11
	10
	9
	8
17.5	7
	6
	5
	4
C	3
	2
	極数 CIRCUIT SIZE

番号 NO.	部品 PART	材質 MATERIAL
⑤	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>
DOCUMENT STATUS	P1	RELEASE DATE 2019/04/05 01:07:45

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
DIMENSION UNITS mm	SCALE NTS
CURRENT REV DESC:	
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 3.0 °
4 PLACES	± 0.2
3 PLACES	± 0.2
2 PLACES	± 0.2
1 PLACE	± 0.2
0 PLACES	± 0.2
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
THIRD ANGLE PROJECTION	
DRAWING A3-SIZE	SERIES 501331
MATERIAL NUMBER SEE SHEET 6	
CUSTOMER	
SHEET NUMBER 4 OF 6	

EC NO: 614886	
DRWN: AISHIKAWA	2019/02/18
CHK'D: AIDA	2019/04/03
APPR: KOMURAKAMI	2019/04/05
INITIAL REVISION:	
DRWN: AISHIKAWA	2019/02/18
APPR: KOMURAKAMI	2019/04/05

DOCUMENT NUMBER 5013310000-SD	
DOC TYPE PSD	DOC PART 000
REVISION A	

PICO-CLASP 1.0 W/B SINGLE ROW VT SMT INNER LOCK TIN PLATING	
PRODUCT CUSTOMER DRAWING	

molex

2~5 CIRCUITS

引き出し方向
PULL OUT DIRECTION

16mm幅テープ
TAPE WIDTH:16mm

SECTION Y-Y

6~15 CIRCUITS

⑦ TOP TAPE

CONNECTOR

⑥ CARRIER TAPE

SECTION W-W

$$\underline{\varnothing 1.5^{+0.1}_{0.0}}$$

4.0 ± 0.1 累積ピッチ : 40 ± 0.2
ACCUMULATIVE PITCH:

(2.0)エンボスポケット中心位置
CENTER OF EMBOSSED POCKET

32mm幅テープ
TAPE WIDTH:32mm

24mm幅テープ
TAPE WIDTH:24mm

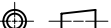
SECTION X-X

SECTION V-V

 $R(0.75)$

DETAIL U

18.3	14.2	32	15
17.3			14
16.3			13
15.3	11.5	24	12
14.3			11
13.3			10
12.3			9
11.3			8
10.3			7
9.3			6
8.3	7.5	16	5
7.3			4
6.3			3
5.3			2
F	コネクタ中心位置 E SENER OF CONNECTOR	エンボステープ幅 D WIDTH OF TAPE	極数 CIRCUIT SIZE

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
DIMENSION UNITS		SCALE		CURRENT REV DESC:				molex							
mm		NTS													
GENERAL TOLERANCES (UNLESS SPECIFIED)				PICO-CLASP 1.0 W/B SINGLE ROW VT SMT INNER LOCK TIN PLATING											
ANGULAR TOL ± 3.0°															
4 PLACES		± 0.2		EC NO: 614886				PRODUCT CUSTOMER DRAWING							
3 PLACES		± 0.2		DRWN: AISHIKAWA 2019/02/18											
2 PLACES		± 0.2		CHK'D: AIDA 2019/04/03											
1 PLACE		± 0.2		APPR: KOMURAKAMI 2019/04/05											
0 PLACES		± 0.2		INITIAL REVISION:				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
DRWN: AISHIKAWA 2019/02/18				APPR: KOMURAKAMI 2019/04/05				5013310000-SD		PSD		000		A	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE		501331		SEE SHEET 6				5 OF 6	

番号 NO.	部品 PART	材質 MATERIAL
⑥	キャリアテープ CARRIER TAPE	ポリプロピレン(PP)、その他 POLYPROPYLEN(PP), etc
⑦	トップテープ TOP TAPE	ポリエチレン(PE)、その他 POLYETHYLENE(PE), etc
DOCUMENT STATUS	P1	RELEASE DATE 2019/04/05 01:07:45

△₁₃△₁₅ 製品一覧 PRODUCT LIST

HOUSING COLOR			
NATURAL(BEIGE)			
501331	1507	15	
↑	1407	14	
	1307	13	
	1207	12	
	1107	11	
	1007	10	
	0907	9	
	0807	8	
	0707	7	
	0607	6	
	0507	5	
	0407	4	
	▽	0307	3
		501331 0207	2
	発注番号 ORDER No.		極数 CIRCUIT SIZE
梱包形態：エンボスリール PACKAGE:EMBOSSD REEL			

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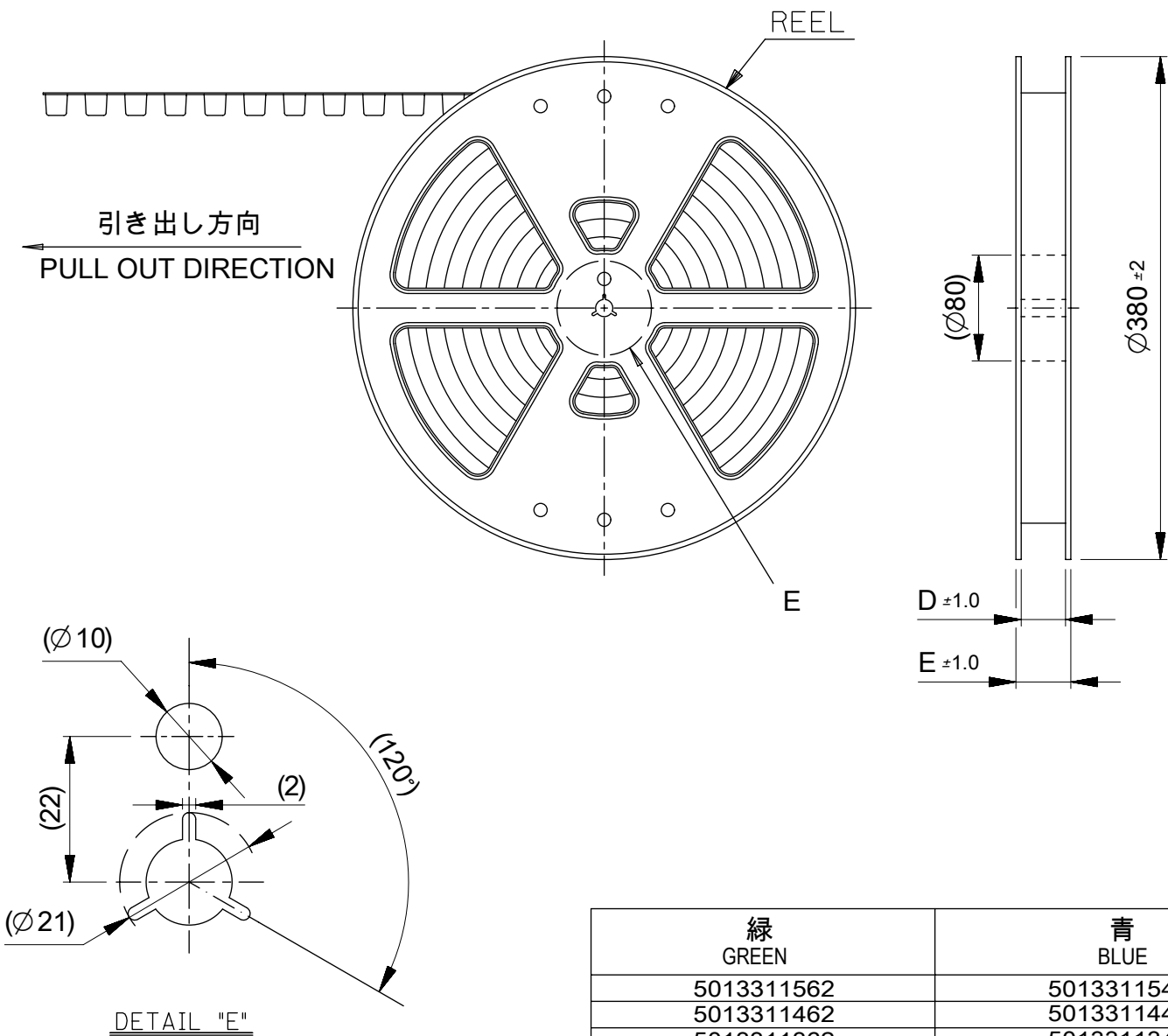
DIMENSION UNITS	SCALE	CURRENT REV DESC:		molex			
mm	NTS						
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 614886 DRWN: AISHIKAWA 2019/02/18 CHK'D: AIDA 2019/04/03 APPR: KOMURAKAMI 2019/04/05 INITIAL REVISION: DRWN: AISHIKAWA 2019/02/18 APPR: KOMURAKAMI 2019/04/05		PICO-CLASP 1.0 W/B SINGLE ROW VT SMT INNER LOCK TIN PLATING			
ANGULAR TOL	± 3.0 °			PRODUCT CUSTOMER DRAWING			
4 PLACES	± 0.2			DOCUMENT NUMBER			
3 PLACES	± 0.2			5013310000-SD		DOC TYPE	DOC PART
2 PLACES	± 0.2					PSD	000
1 PLACE	± 0.2					REVISION	
0 PLACES	± 0.2					A	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	
			A3-SIZE	501331	SEE SHEET 6		
						SHEET NUMBER	
						6 OF 6	

DOCUMENT STATUS

P1

RELEASE DATE

2019/04/05 01:07:45

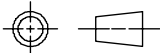


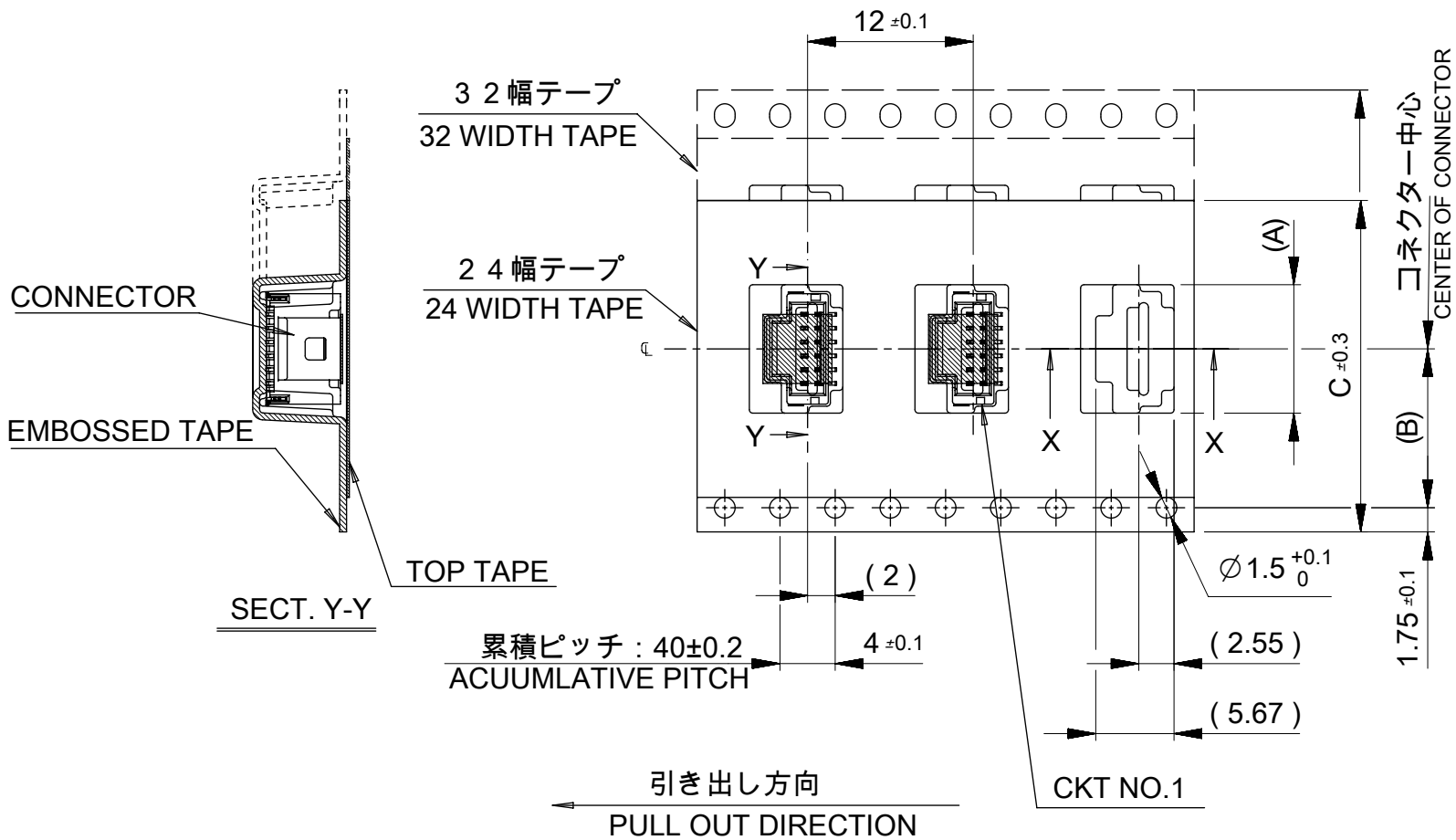
NOTES.

- 1 . 製品詳細寸法については製品単体図面を参照ください。
ABOUT DETAILED DIMENSION, SEE PRODUCT DRAWING.
- 2 . 梱包数量 : 1 1 0 0 個 / リール
NUMBER OF CONNECTORS : 1100PIECES/REEL
- 3 . リードテープ長さ
LEAD TAPE LENGTH
- トッパートープ接着部 (空エンボス)
20 PIECES. MIN.
TOP TAPE BONDED PART (EMPTY)
- 400MIN.
- 部品挿入部
COMPONENT
SUPPLIER
- 末端部
(空部)
TAIL PART
(EMPTY)
40MIN.
- 引き出し方向
PULL OUT
DIRECTION
- 4 . 材料
MATERIAL
キャリアテープ : ポリプロピレン
CARRIER TAPE : POLYPROPYLENE
トッパートープ : P E T , P E , R E F
TOP TAPE
リール : ポリスチレン (リサイクル材を含む)
REEL : POLYSTYLENE (RECYCLE MATERIAL CONTAINED)

緑 GREEN	青 BLUE	赤 RED	黒 BLACK	自然色 NATURAL	色 COLOR
5013311562	5013311542	5013311522	5013311512	501331 1507	15
5013311462	5013311442	5013311422	5013311412	501331 1407	14
5013311362	5013311342	5013311322	5013311312	501331 1307	13
5013311262	5013311242	5013311222	5013311212	501331 1207	12
5013311162	5013311142	5013311122	5013311112	501331 1107	11
5013311062	5013311042	5013311022	5013311012	501331 1007	10
5013310962	5013310942	5013310922	5013310912	501331 0907	9
5013310862	5013310842	5013310822	5013310812	501331 0807	8
5013310762	5013310742	5013310722	5013310712	501331 0707	7
5013310662	5013310642	5013310622	5013310612	501331 0607	6
EMBOSSED PACKAGE	EMBOSSED PACKAGE	EMBOSSED PACKAGE	EMBOSSED PACKAGE	EMBOSSED PACKAGE	極数 CIRCUTIS
△ ₁₀ オーダー番号 ORDER NO.	△ ₁₀ オーダー番号 ORDER NO.	△ ₁₀ オーダー番号 ORDER NO.	△ ₁₀ オーダー番号 ORDER NO.	△ ₁₀ オーダー番号 ORDER NO.	

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RELEASED	EC NO: 120301 DRWN: QHE31 CHK'D: SAKIYAMA APPR: TKANEKO	2017/08/03	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS		SCALE		molex®					
		2017/08/04		MM									
		2017/08/04		DRWN BY		DATE							
				QHE31		2017/08/03		PICO-CLASP 1.0 W/B SINGLE-ROW ST EMBSTP PKG WAFER ASS'Y					
				CHK'D BY		DATE							
				SAKIYAMA		2017/08/04							
		APPR BY		DATE		PRODUCT CUSTOMER DRAWING							
		TKANEKO		2017/08/04									
		DRAWING SIZE		THIRD ANGLE PROJECTION						SERIES		MATERIAL NUMBER	
			A3				501331		SEE TABLE OF SHEET 1				
						DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER	
						5013310612-SD		PSD		000		1 OF 3	



37.4	33.4	32	14.2	18.3	15
				17.3	14
				16.3	13
29.4	25.4	24	11.5	15.3	12
				14.3	11
				13.3	10
				12.3	9
				11.3	8
				10.3	7
				9.3	6
E	D	C	(B)	(A)	極數 CIRCUITS

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																											
RELEASED		EC NO: 120301 DRWN: QHE31 CHK'D: SAKIYAMA APPR: TKANEKO		2017/08/03 2017/08/04 2017/08/04		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex®															
								MM																			
								ANGULAR TOL ± 3.0 °						DRWN BY		DATE		PICO-CLASP 1.0 W/B SINGLE-ROW ST EMBSTP PKG WAFER ASS'Y									
														QHE31		2017/08/03											
								4 PLACES		± 0.2		CHK'D BY		DATE		PRODUCT CUSTOMER DRAWING											
								3 PLACES		± 0.2		SAKIYAMA		2017/08/04													
								2 PLACES		± 0.2		APPR BY		DATE		SERIES 501331								MATERIAL NUMBER SEE TABLE OF SHEET 1		CUSTOMER	
								1 PLACE		± 0.2		TKANEKO		2017/08/04													
0 PLACES		± 0.2		DRAWING SIZE		THIRD ANGLE PROJECTION		A3				DOCUMENT NUMBER				DOC TYPE		DOC PART		SHEET NUMBER							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS														5013310612-SD				PSD		000		2 OF 3					

