

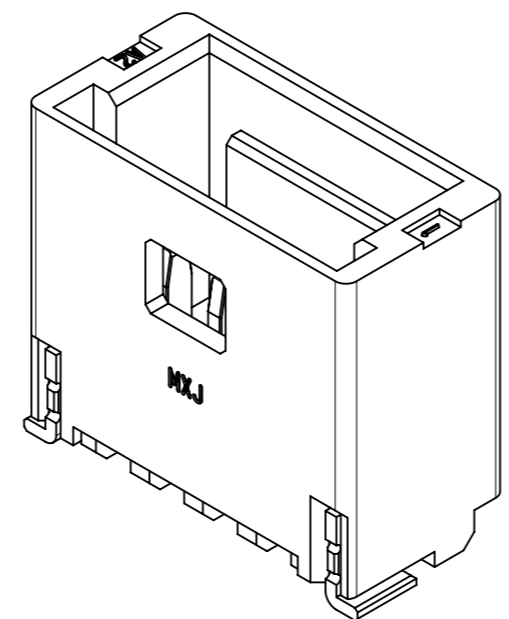
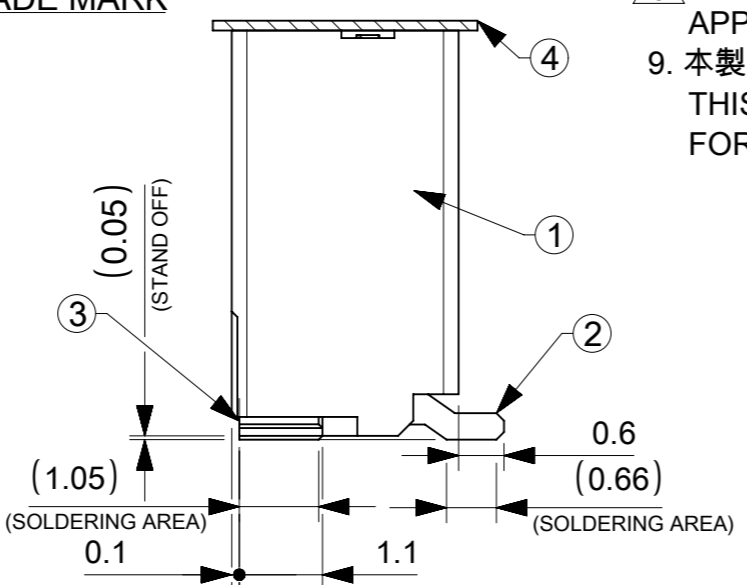
NOTES

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

TABLE 1

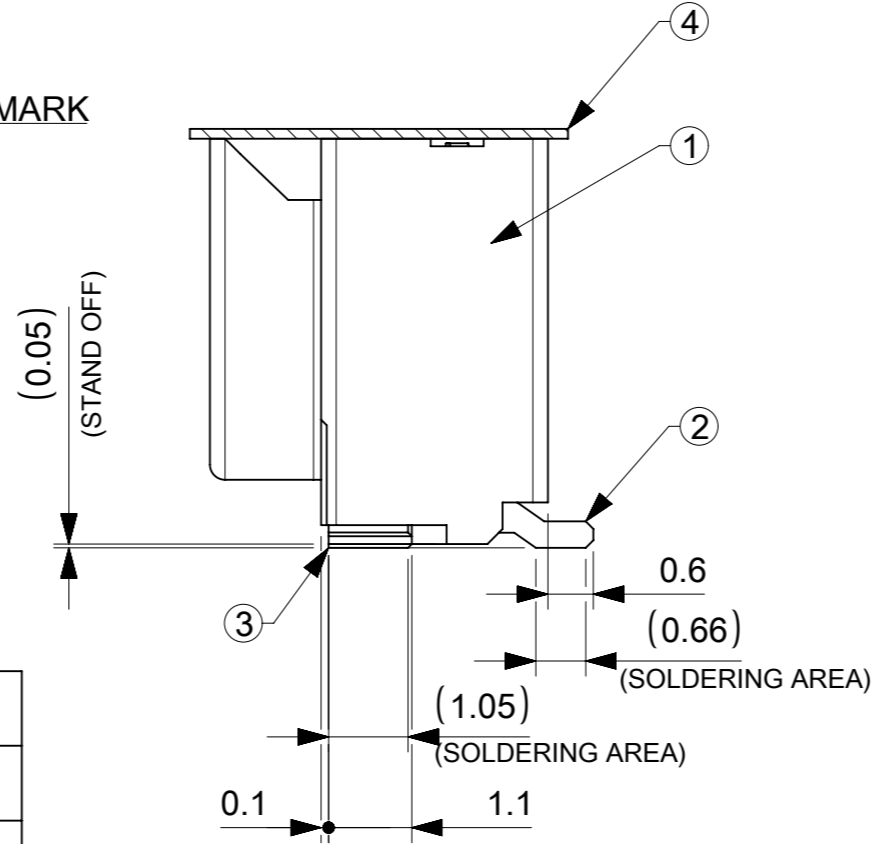
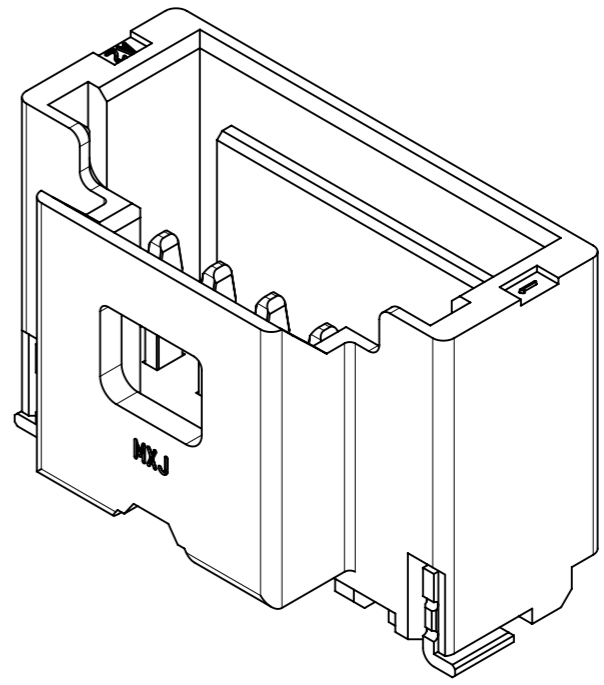
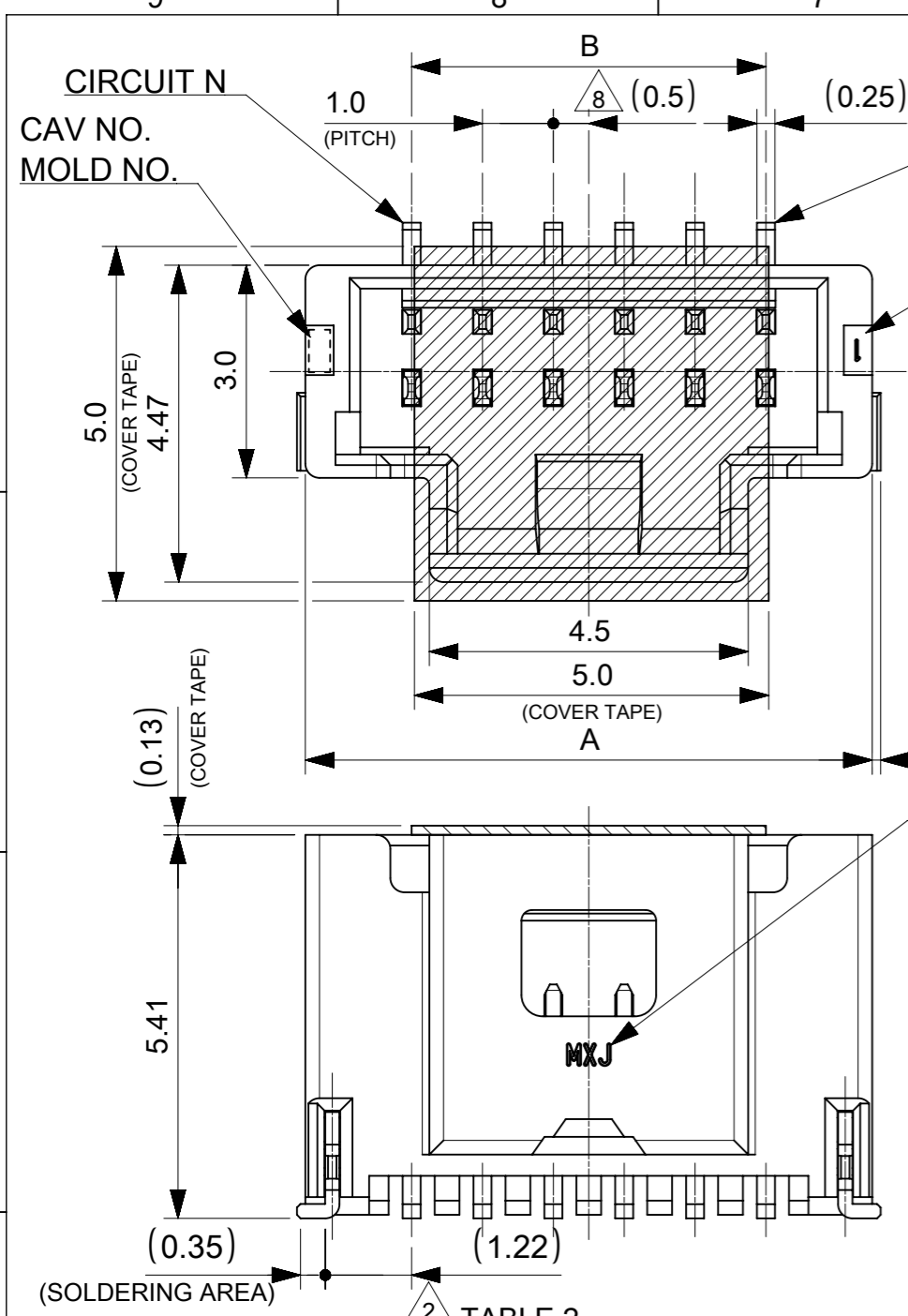
番号 NO.	部品 PART	材質 MATERIAL	
①	ウエハー WAFER	ポリアミド(PA), UL94V-0, 色 : SEE SHEET 6 POLYAMIDE(PA), UL94V-0, COLOR : SEE SHEET 6	
②	ソルダーピン SOLDER PIN	リン青銅 PHOSPHOR BRONZE	
		接点部 CONTACT AREA テール部 TAIL AREA	錫めっき : 1.0 MICRO-METER MIN. MATTE TIN PLATING
		下地めっき UNDER PLATING	ニッケルめっき : 1.0 MICRO-METER MIN. NICKEL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



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

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 °	EC NO: 614886		PRODUCT CUSTOMER DRAWING		
4 PLACES	± 0.2	DRWN: AISHIKAWA 2019/02/18		DOCUMENT NUMBER		
3 PLACES	± 0.2	CHK'D: AIDA 2019/04/03		5013310000-SD		
2 PLACES	± 0.2	APPR: KOMURAKAMI 2019/04/05		DOC TYPE DOC PART REVISION		
1 PLACE	± 0.2	INITIAL REVISION:		PSD 000 A		
0 PLACES	± 0.2	DRWN: AISHIKAWA 2019/02/18		MATERIAL NUMBER		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				APPR: KOMURAKAMI 2019/04/05		CUSTOMER
THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
A3-SIZE		501331	SEE SHEET 6			1 OF 6



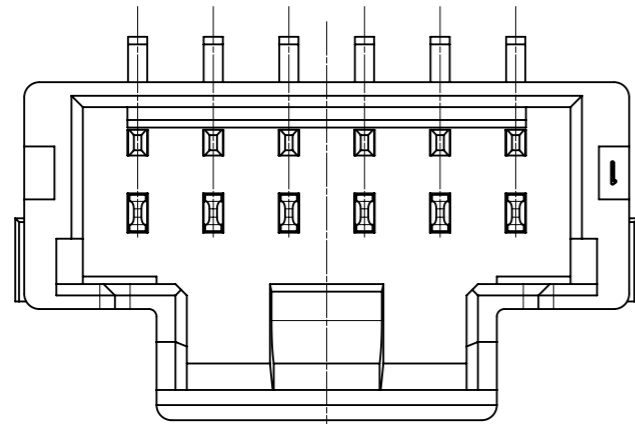
14.0	17.0	15
13.0	16.0	14
12.0	15.0	13
11.0	14.0	12
10.0	13.0	11
9.0	12.0	10
8.0	11.0	9
7.0	10.0	8
6.0	9.0	7
5.0	8.0	6
B	A	極数 CIRCUIT SIZE

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
	下地めっき UNDER PLATING	ニッケルめっき : 1.0 MICRO-METER MIN. NICKEL	
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

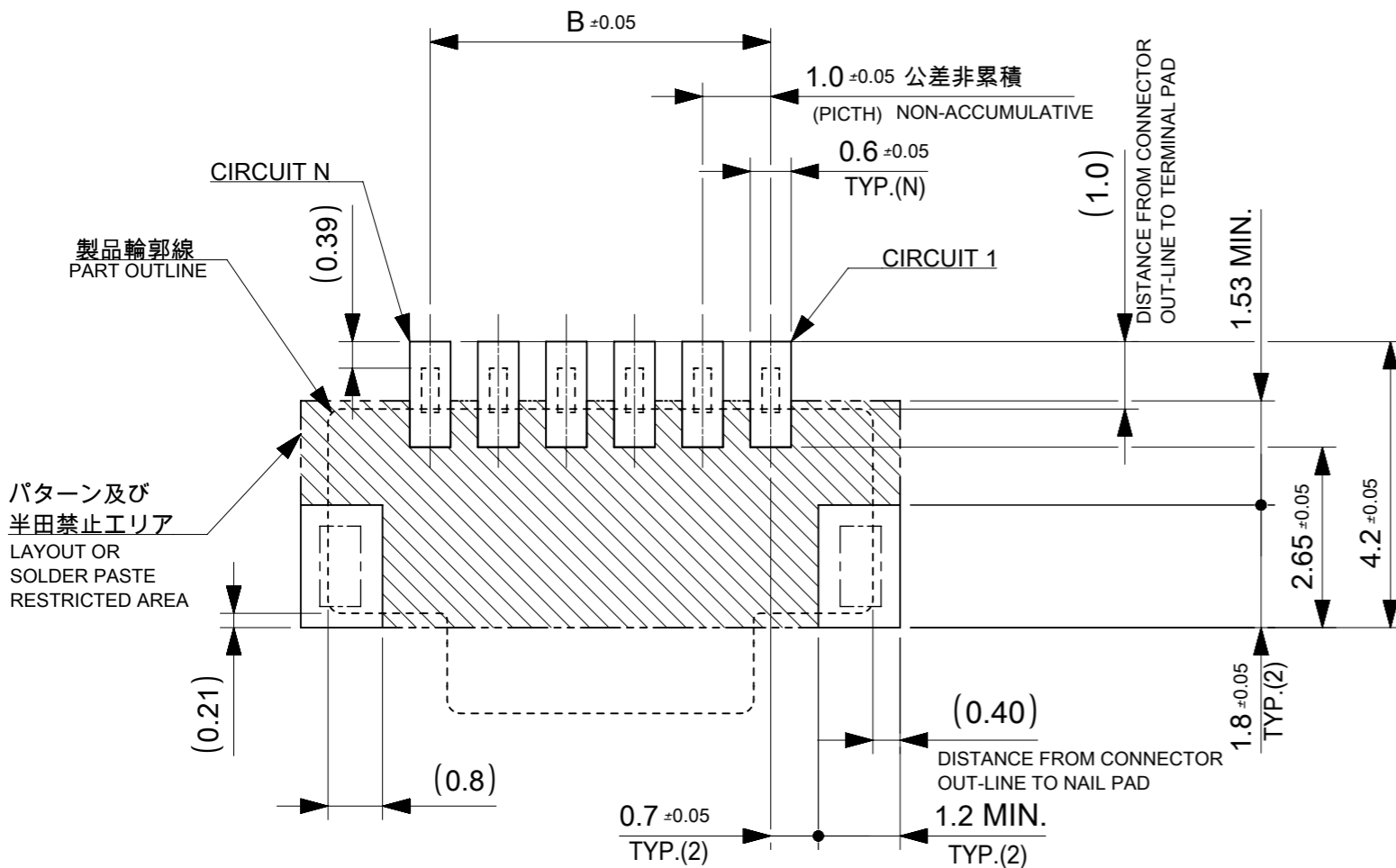
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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



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

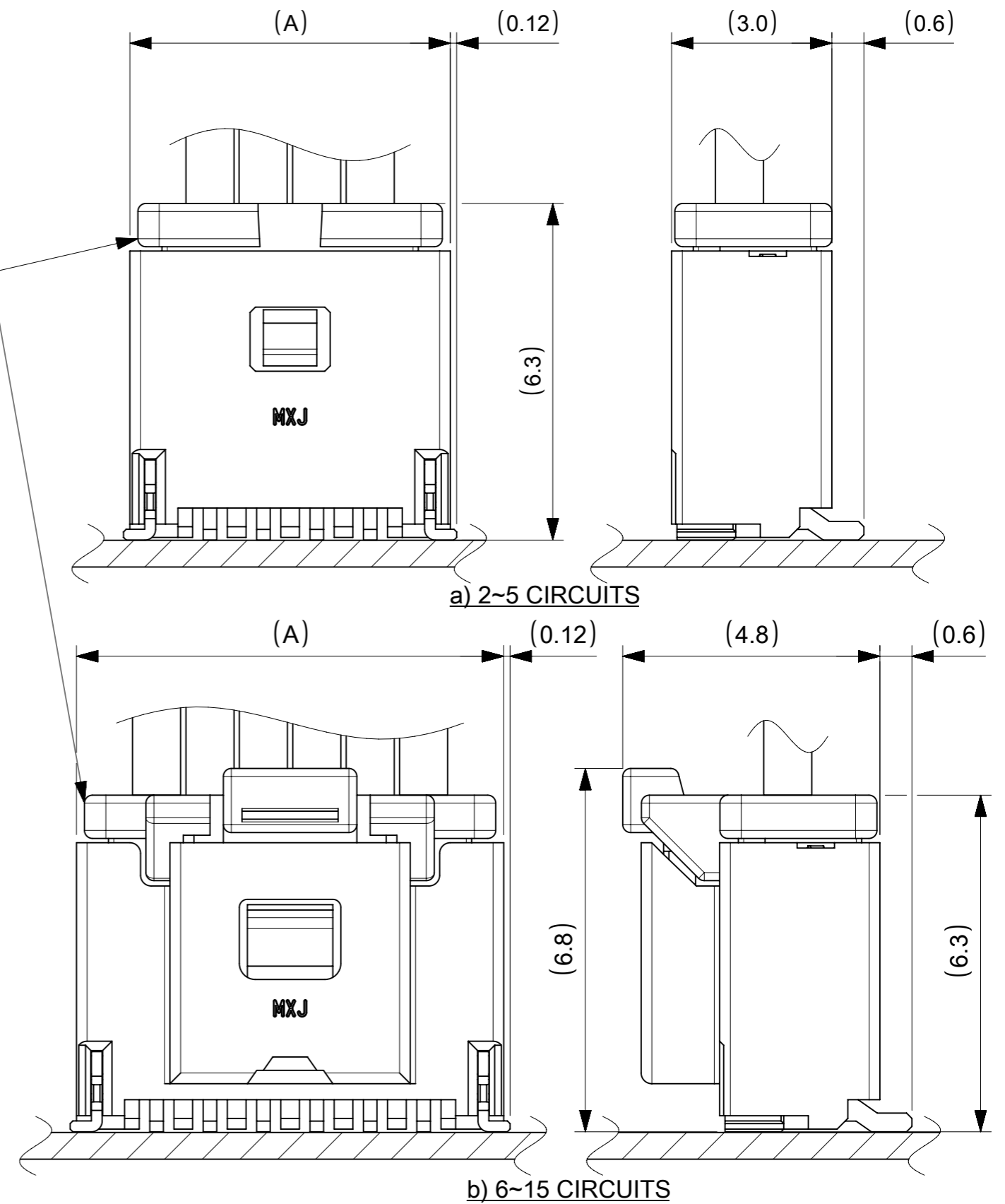
△ 嵌合相手: 501330 シリーズ
MATE WITH: 501330 SERIES



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%)

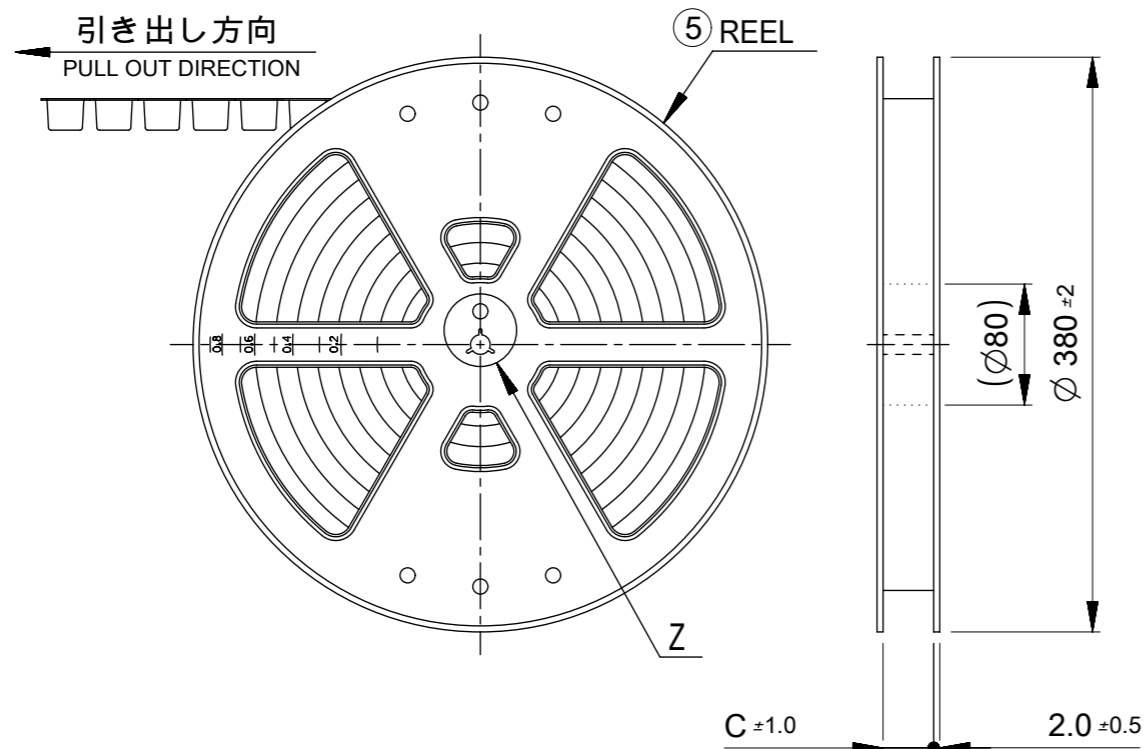
POLARIZED RECOMMENDED PCB LAYOUT(APPLY TO ALL CIRCUIT): COMPONENT SIDE
(REFERENCE: PCB THICKNESS 1.0mm, STENCIL THICKNESS 0.12mm, APERTURE RATIO 100%)

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



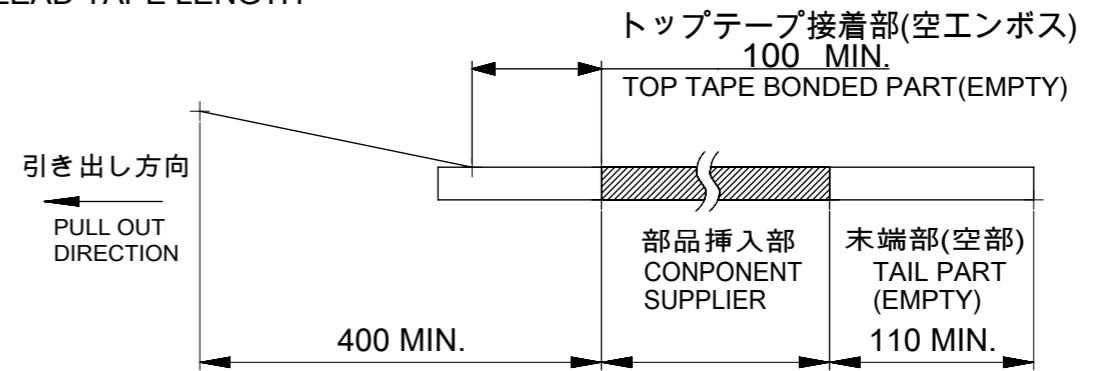
嵌合図
MATED CONNECTORS

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

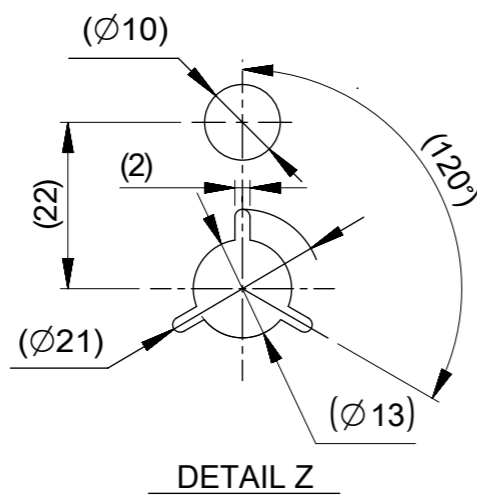


NOTES

- 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 BARRIER 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

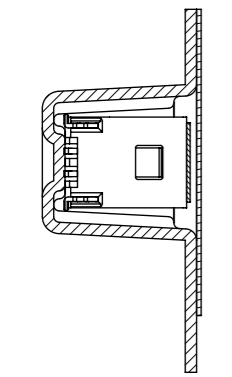
番号 NO.	部品 PART	材質 MATERIAL
⑤	リール REEL	ポリスチレン(PS) <リサイクル材を含む> POLYSTYRENE(PS) <RECYCLE MATERIAL CONTAINED>

DOCUMENT STATUS	P1	RELEASE DATE	2019/04/05	01:07:45
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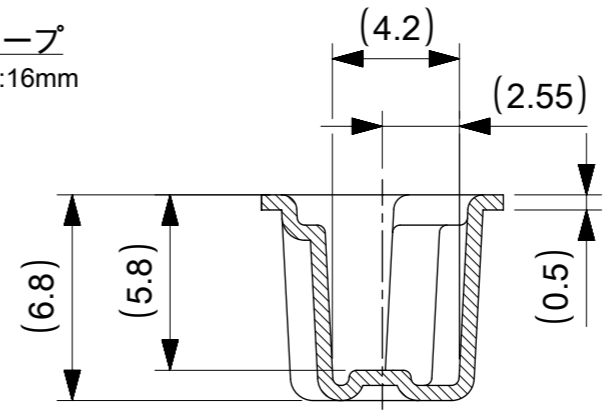
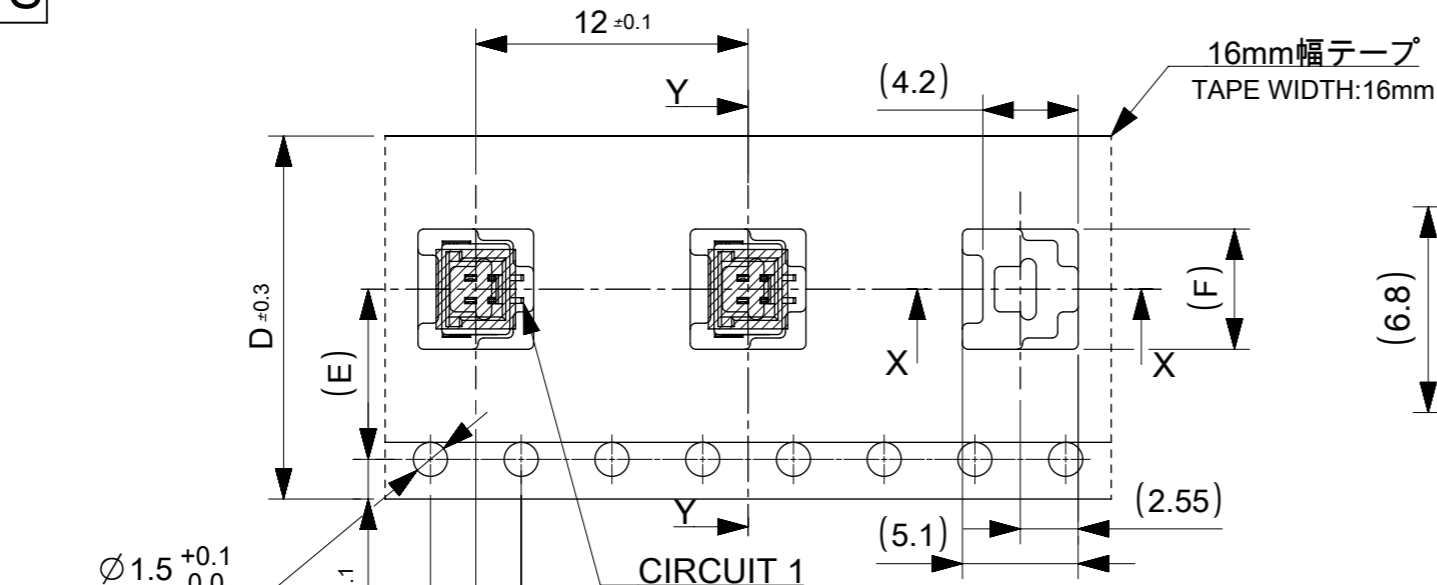
DIMENSION UNITS mm	SCALE NTS	CURRENT REV DESC:	molex		
GENERAL TOLERANCES (UNLESS SPECIFIED)	ANGULAR TOL ± 3.0°	EC NO: 614886			
4 PLACES ± 0.2	3 PLACES ± 0.2	DRWN: AISHIKAWA 2019/02/18	PRODUCT CUSTOMER DRAWING		
2 PLACES ± 0.2	1 PLACE ± 0.2	CHK'D: AIDA 2019/04/03	DOCUMENT NUMBER		
0 PLACES ± 0.2		APPR: KOMURAKAMI 2019/04/05	5013310000-SD		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER
		A3-SIZE	501331	SEE SHEET 6	PSD 000 A
					SHEET NUMBER 4 OF 6

2~5 CIRCUITS

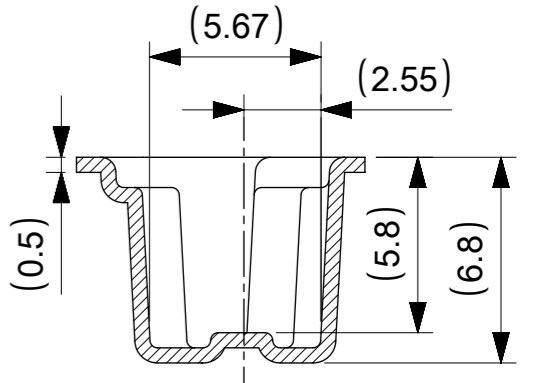


SECTION Y-Y

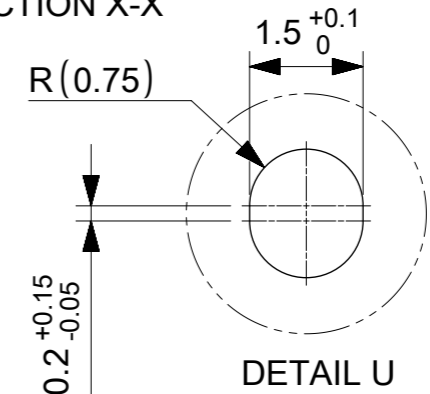
引き出し方向
PULL OUT DIRECTION



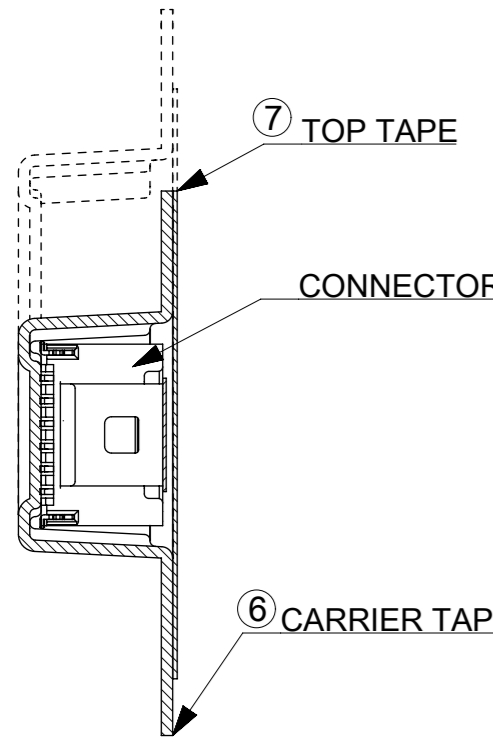
SECTION X-X



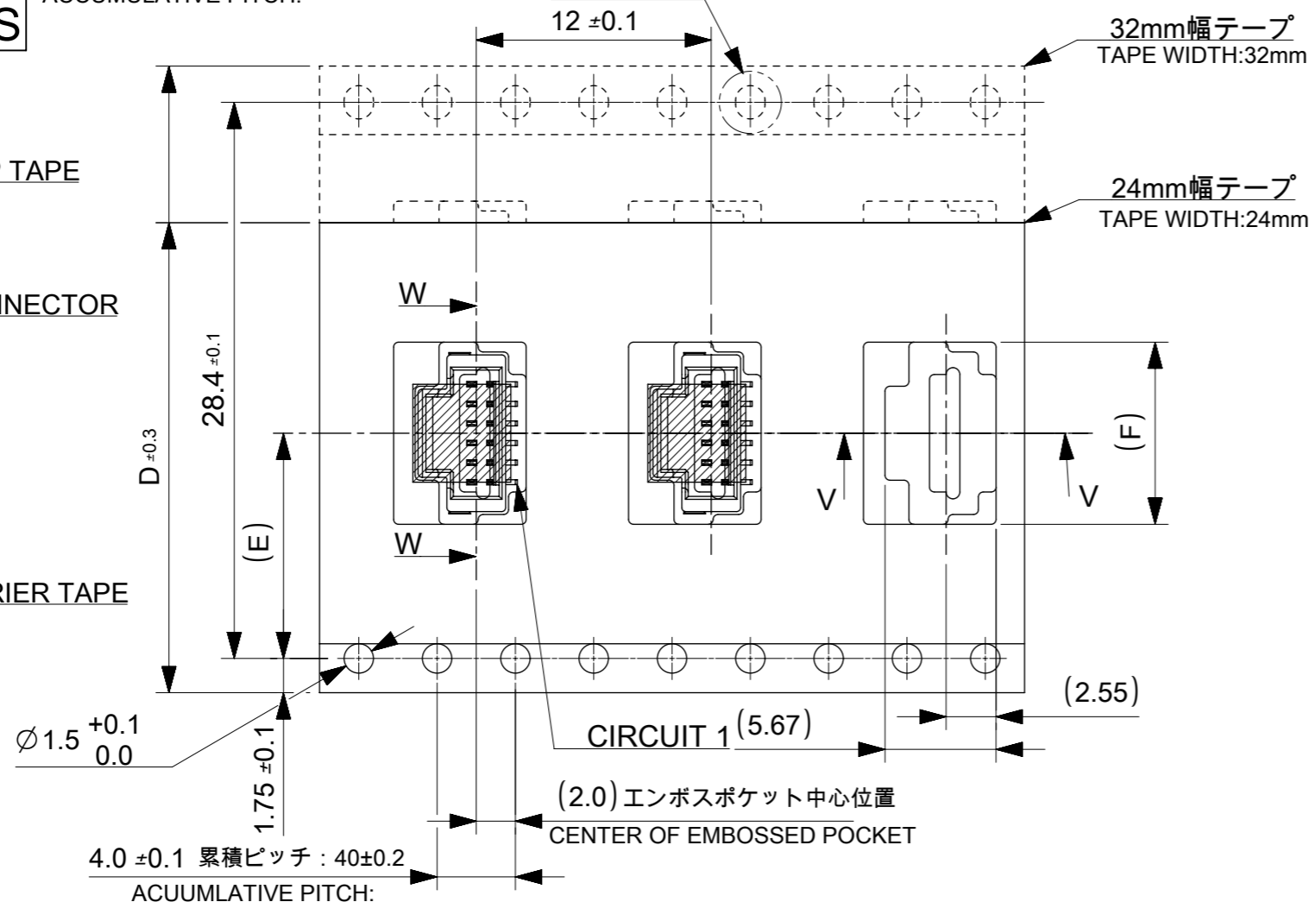
SECTION V-V



6~15 CIRCUITS



SECTION W-W



18.3			15
17.3	14.2	32	14
16.3			13
15.3			12
14.3			11
13.3			10
12.3	11.5	24	9
11.3			8
10.3			7
9.3			6
8.3			5
7.3	7.5	16	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

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
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SCALE: mm NTS

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

THIRD ANGLE PROJECTION

DRAWING: A3-SIZE

SERIES: 501331

MATERIAL NUMBER: SEE SHEET 6

CUSTOMER: 5013310000-SD

DOC TYPE: PSD

DOC PART: 000

REVISION: A

SHEET NUMBER: 5 OF 6

CURRENT REV DESC:
 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

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER: 5013310000-SD

DATE: 2018/01/18

9 8 7 6 5 4 3 2 1

E

E

D

D

C

C

B

B

A

A

△13 △15 製品一覧 PRODUCT LIST

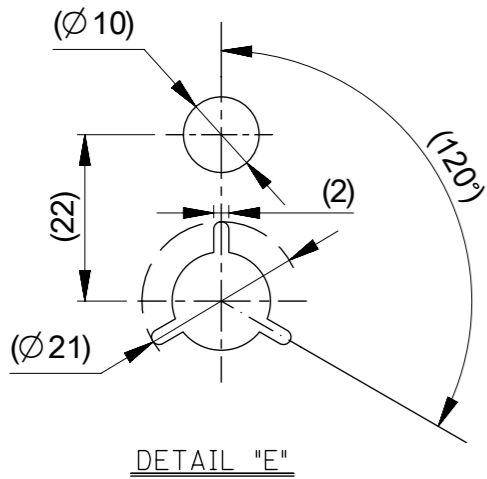
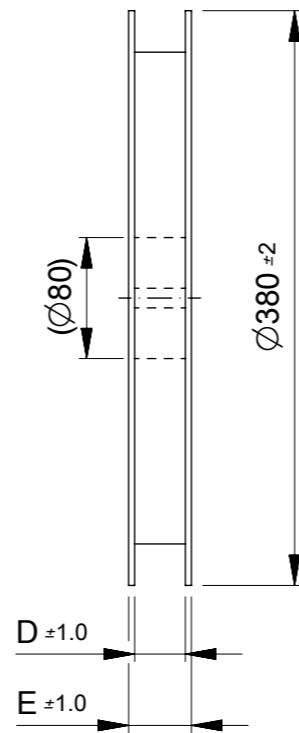
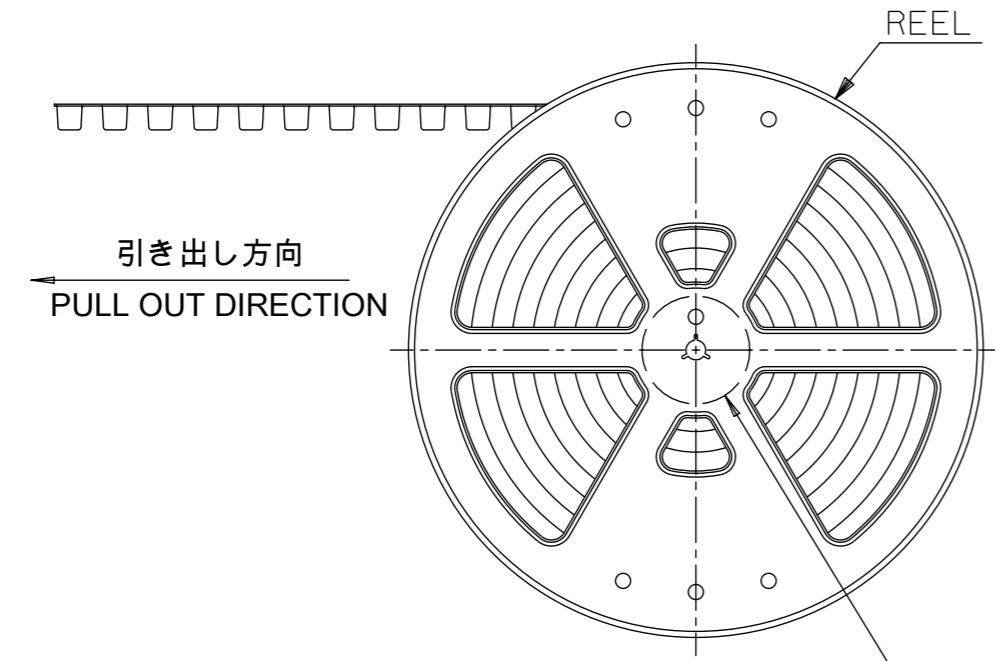
HOUSING COLOR		
NATURAL(BEIGE)		
501331	1507	15
△	1407	14
	1307	13
	1207	12
	1107	11
	1007	10
	0907	9
	0807	8
	0707	7
	0607	6
	0507	5
	0407	4
▽	0307	3
501331	0207	2
発注番号 ORDER No.		極数
梱包形態：エンボスリール		CIRCUIT SIZE
PACKAGE:EMBOSSED REEL		

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

DOCUMENT STATUS	P1	RELEASE DATE	2019/04/05	01:07:45
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9 8 7 6 5 4 3 2 1

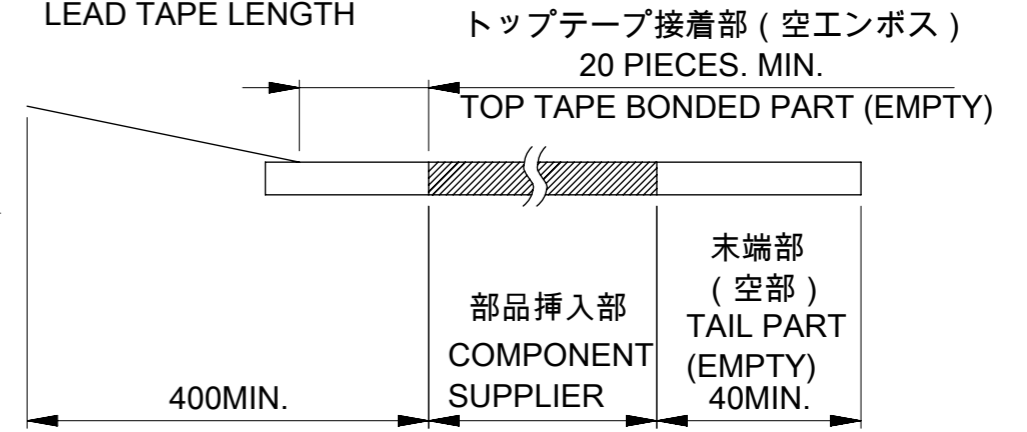
FORMAT: master-ib-prod-A3
REVISION: 11
DATE: 2018/01/18



NOTES.

- 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.
- 梱包数量：1100個 / リール
NUMBER OF CONNECTORS : 1100PIECES/REEL
- リードテープ長さ
LEAD TAPE LENGTH
トップテープ接着部 (空エンボス)
20 PIECES. MIN.
TOP TAPE BONDED PART (EMPTY)
- 材料
MATERIAL
キャリアテープ：ポリプロピレン
CARRIER TAPE : POLYPROPYLENE
トップテープ：PET, PE, REF
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)

引き出し方向
PULL OUT DIRECTION



緑 GREEN	青 BLUE	黒 BLACK	自然色 NATURAL	色 COLOR
-----	-----	5013311512	5013311507	15
-----	-----	-----	5013311407	14
-----	-----	-----	5013311307	13
-----	-----	-----	5013311207	12
-----	-----	-----	5013311107	11
-----	-----	-----	5013311007	10
-----	-----	-----	5013310907	9
-----	-----	-----	5013310807	8
-----	-----	-----	5013310707	7
5013310662	5013310642	-----	5013310607	6
EMBOSSED PACKAGE	EMBOSSED PACKAGE	EMBOSSED PACKAGE	EMBOSSED PACKAGE	極数 CIRCUTIS
$\triangle 10$ オーダー番号 ORDER NO.	$\triangle 10$ オーダー番号 ORDER NO.	$\triangle 10$ オーダー番号 ORDER NO.	$\triangle 10$ オーダー番号 ORDER NO.	

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DIMENSION UNITS: mm SCALE: ± 0.2

GENERAL TOLERANCES (UNLESS SPECIFIED): ANGULAR TOL $\pm 3.0^\circ$

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 TABLE

CUSTOMER: 5013310612-SD

SHEET NUMBER: 1 OF 3

EC NO: 812554
DRWN: RAVINR1
CHK'D: GGA
APPR: GGA

2025/01/23
2025/02/25
2025/02/25

INITIAL REVISION:
DRWN: QHE31
APPR: TKANEKO

2017/08/03
2017/08/04

DOCUMENT NUMBER: 5013310612-SD

DOC TYPE: PSD

DOC PART: 000

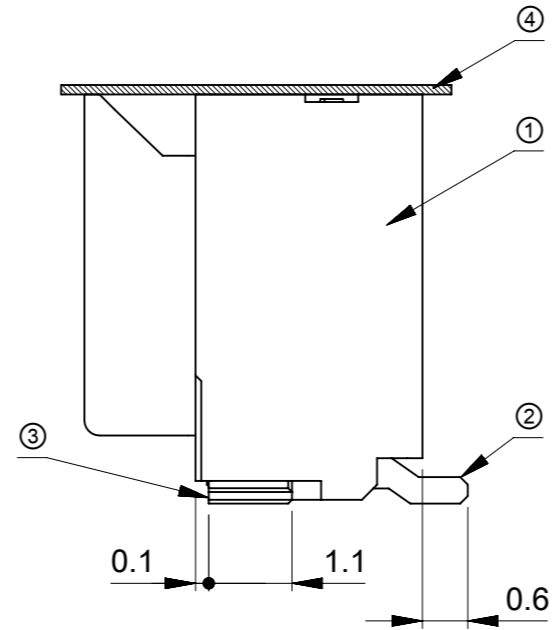
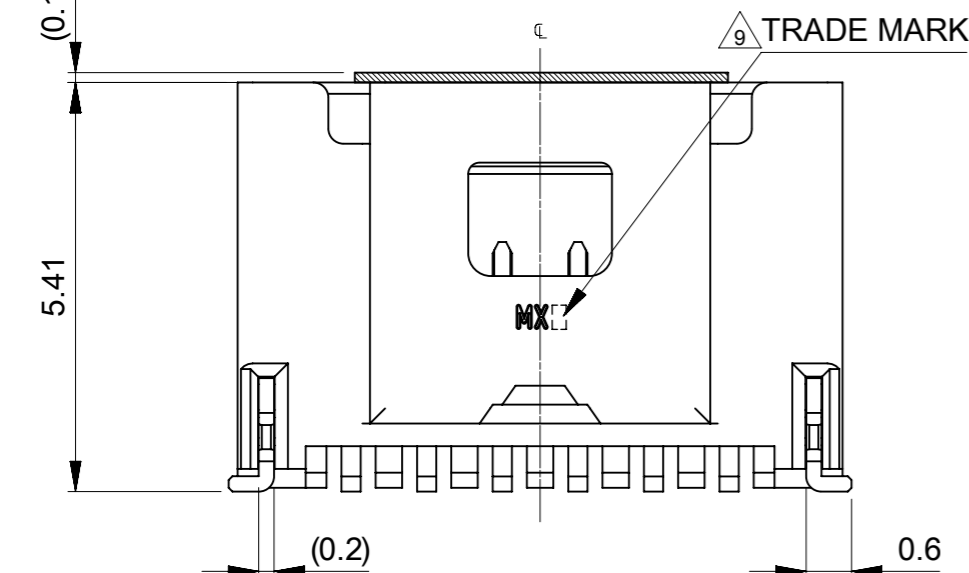
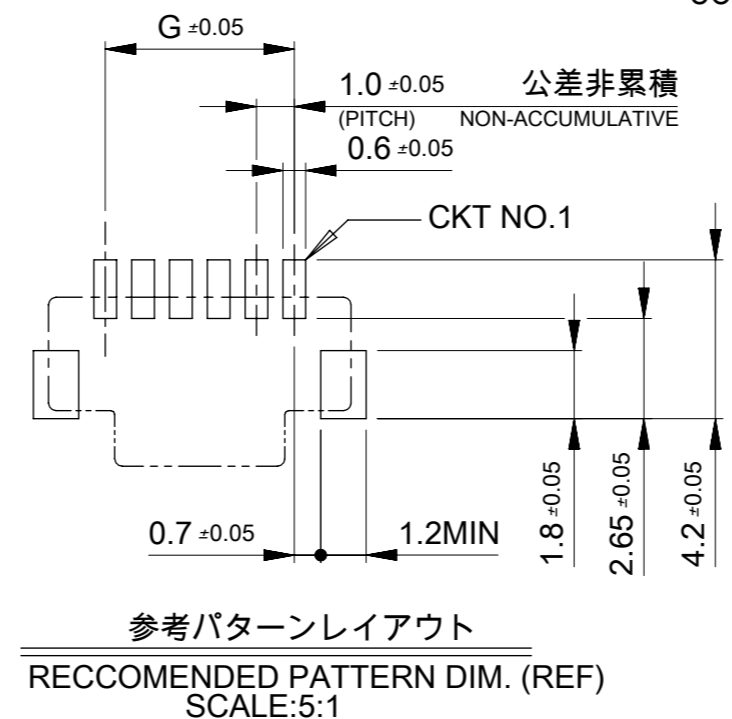
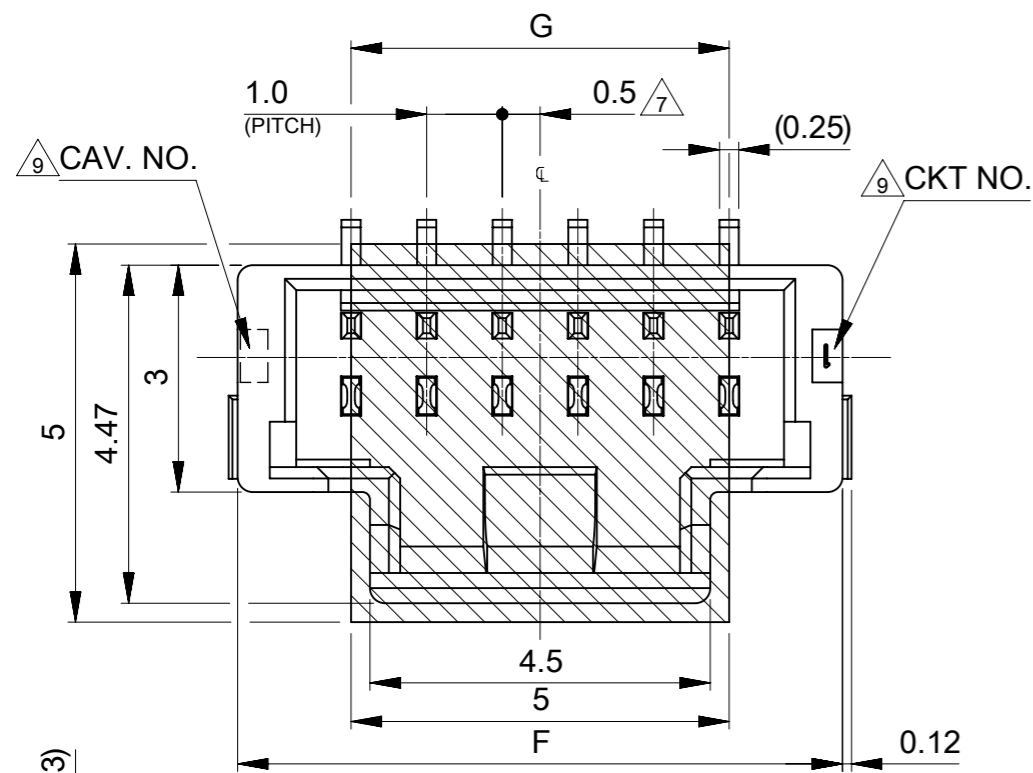
REVISION: A1

molex

PICO-CLASP 1.0 W/B SINGLE-ROW ST
EMBSTP PKG WAFER ASSY

PRODUCT CUSTOMER DRAWING

CONFIDENTIAL



番号 NO.	部品 PART	材質 MATERIAL
①	ウエハー WAFER	△10 耐熱ナイロン樹脂, 色: 表参照 HEAT RESISTANCE NYLON, COLOR: SEE TABLE UL94V-0
②	ソルダーピン SOLDER PIN	りん青銅 PHOSPHOR BRONZE 錫メッキ: 1.0µm M I N . TIN ニッケルメッキ (下地): 1.0µm M I N . NICKEL (UNDER PLATING)
③	ネイル NAIL	りん青銅 PHOSPHOR BRONZE 錫メッキ: 1.0µm M I N . TIN ニッケルメッキ (下地): 1.0µm M I N . NICKEL (UNDER PLATING)
④	カバーテープ COVER TAPE	ポリイミドテープ POLYIMIDE TAPE

△10 オーダー番号 ORDER NO.

501331 * * * *

極数 CIRCUIT SIZE 色 COLOR

HSG COLOR	No.
自然色 NATURAL	07
黒 BLACK	12
赤 RED	22
青 BLUE	42
緑 GREEN	62

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
G	F	極数 CKT.

NOTES.

- 5. 嵌合相手 : 501330****
MATE WITH : 501330****
- 6. ソルダーピン及びネイル平坦度は, 0.1MAX .
SOLDER PIN AND NAIL COPLANARITY TO BE 0.1MAX.
- △7 極数 = 偶数に適用
APPLY FOR CKT SIZE=EVEN
- 8. 2 ~ 5 極は, 5013310400-SD を参照下さい.
REFER TO 5013310400-SD ABOUT 2-5CKT.
- △9 トレードマーク : MXプラス1文字の製造工場を示すアルファベットにて構成
但し, "J"はJAPANを示す.
キャビティー番号 : 1桁から2桁の数字で表示
金型番号 : アルファベット1文字にて構成.
FORMED BY MX AND 1 MORE LETTER OF ALPHABET WHICH MEAN THE MANUFACTORY, BUT "J" MEANS JAPAN. (TO TRADE MARK)
AND BY I DIGIT NUMBER (TO CAVITY NO.)
AND BY I LETTER OF ALPHABET (TO MOLD NO.)

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	CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515932.	molex		
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 812554			
ANGULAR TOL ± 3.0 °	4 PLACES ± 0.2	DRWN: RAVINR1	2025/01/23		
3 PLACES ± 0.2	2 PLACES ± 0.2	CHK'D: GGA	2025/02/25		
1 PLACE ± 0.2	0 PLACES ± 0.2	APPR: GGA	2025/02/25		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		INITIAL REVISION:	DOCUMENT NUMBER		
THIRD ANGLE PROJECTION		DRWN: QHE31	5013310612-SD		
DRAWING		APPR: TKANEKO	DOC TYPE DOC PART REVISION		
A3-SIZE		SERIES	PSD 000 A1		
501331		MATERIAL NUMBER	CUSTOMER		
SEE TABLE		SHEET NUMBER		3 OF 3	