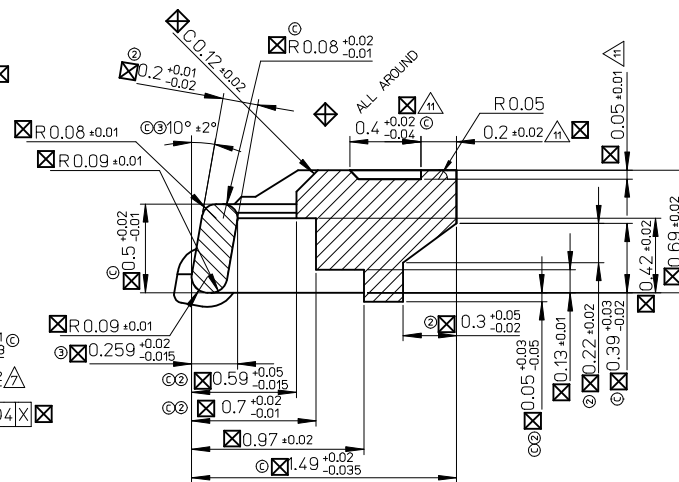
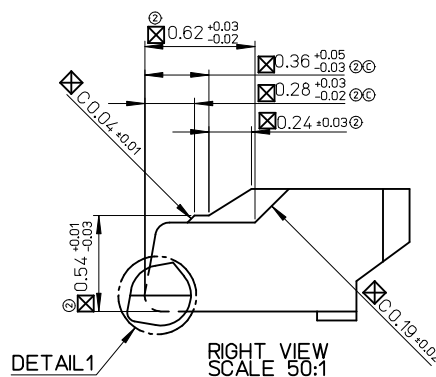


DETAIL 1  
SCALE 100:1



SECTION A-A  
SCALE 50:1



DETAIL 1 RIGHT VIEW  
SCALE 50:1

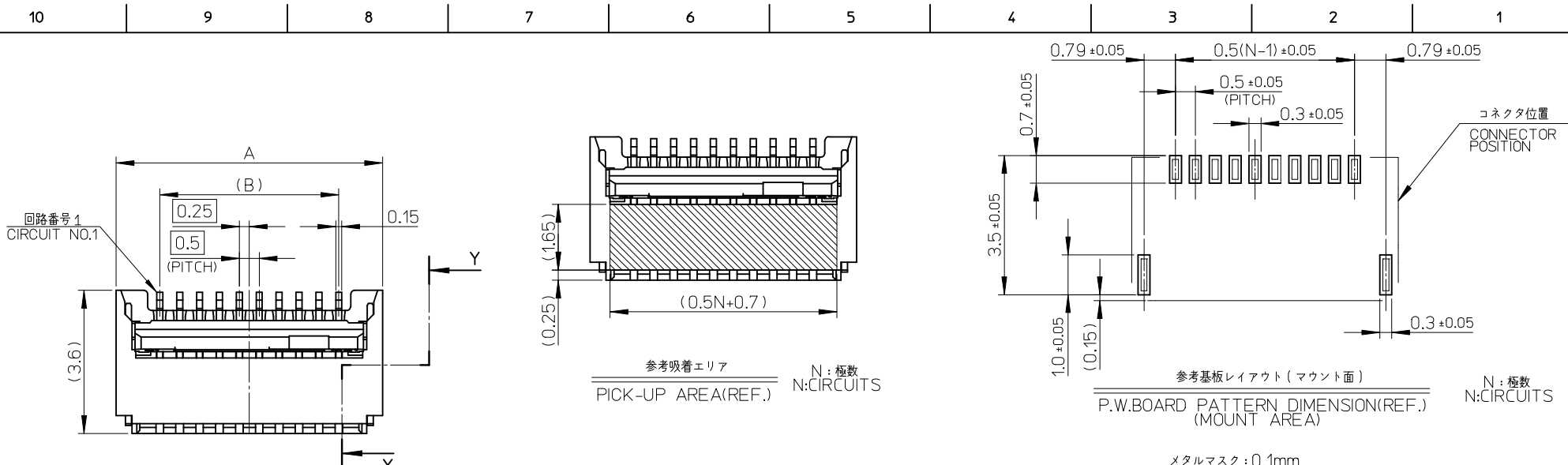
MATERIAL  
89992-1583  
PA46  
STANYL 46HF4550  
(G.F. 50% , COLOR : BLACK)  
UL 94HB

NOTES:

- 指示無き各部の反りは0.04MAXとする。リフロー後の反りは0.05MAXとする。  
但し、U、V面の反り方向は図示方向とし、反り量は指示部参照。  
BOW TO BE 0.04 MAX. BOW AFTER REFLOW TO BE 0.05 MAX.  
HOWEVER, BOW IN U , V FACE TO BE INDICATED DIRECTION.  
SEE THE DRAWING, AND AFTER REFLOW.
- 各部のバリは0.06MAXとする。
- FLASH IN ANY PRITON TO BE 0.06 MAX.
- ゲート部のバリは0.05MAXとする。  
ALLOWABLE FLASH IN GATE POINT IS 0.05 MAX.
- コアホール内のバリは0.03MAXとする。  
FLASH WITHIN THE CORE-HOLES TO BE 0.03MAX.
- 適合ハウジング：503478-\*\*\*\*\*  
APPLICABLE HOUSING : 503478-\*\*\*\*\*
- 掘り込み文字の大きさは0.3にて鮮明なこと。(JES-58参照)  
CHARACTER SIZE 0.3 (REFER TO JES-58)
- 各CAV間の差は、0.02以下とする。  
THE DIFFERENCE BETWEEN EACH CAVITY(IN THE SAME LOT)  
IS MADE 0.02 MAXIMUM.
- 組立前に潤滑剤(SD-2520)を全面塗布のこと。  
SD-2520 IS OVERALL SPREAD BEFORE ASSEMBLY PROCESS.
- リグラインド材：0%  
REGRAIND MATERIAL : 0%
- 環境負荷物質の管理の為、「化学物質ガイドライン」の内容を満足すること。  
MUST MEET THE "CHEMICAL SUBSTANCE GUIDELINE"  
TO CONTROL ENVIRONMENTAL HAZARDOUS SUBSTANCES.
- 11極以上に適用のこと(溝形成とR形状)。  
APPLY TO 11 OR MORE CIRCUITS. (GROOVE AND RADIUS)
- 10極以下のゲート位置は中央にあること。  
GATE POSITION IS CENTER IN 10 OR LESS CIRCUITS.
- 寸法測定は左右どちらからでも良いこと。  
MEASUREMENT FROM RIGHT OR LEFT SIDE.

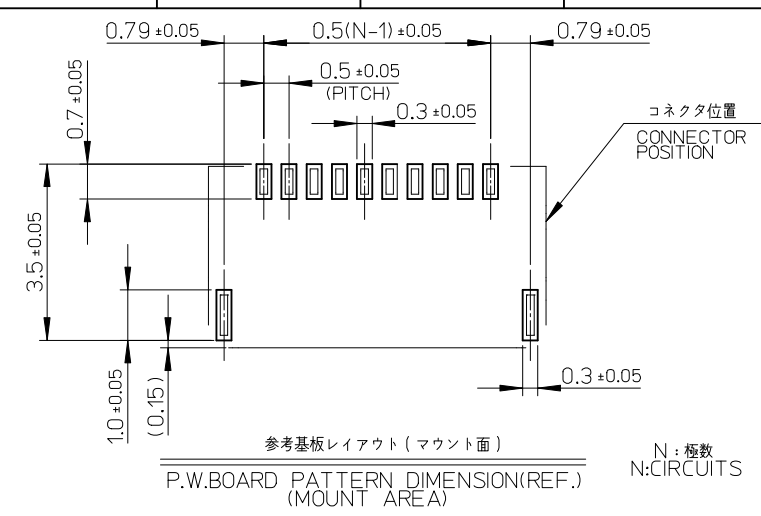
N102N3	0.01918	16.06	16.74	15.5	17.32	Ⓒ	503479-3289	503479-3209	Ⓒ32
*****	0.01806	15.06	15.74	14.5	16.32	X	503479-3089	503479-3009	Ⓒ30
	0.01693	14.06	14.74	13.5	15.32	X	<del>503479-2889</del>	<del>503479-2809</del>	28
N102E4	0.01580	13.06	13.74	12.5	14.32	Ⓔ	503479-2689	503479-2609	Ⓒ26
M201525303	0.01467	12.06	12.74	11.5	13.32	X	503479-2489	503479-2409	Ⓒ24
N102N3	0.01354	11.06	11.74	10.5	12.32	Ⓒ	503479-2289	503479-2209	Ⓒ22
N093S1	0.01241	10.06	10.74	9.5	11.32	Ⓐ	503479-2089	503479-2009	Ⓒ20
N102N3	0.01128	9.06	9.74	8.5	10.32	Ⓒ	503479-1889	503479-1809	Ⓒ18
N10AE2	0.01073	8.56	9.24	8.0	9.82	Ⓔ	503479-1789	503479-1709	Ⓒ17
	0.01016	8.06	8.74	7.5	9.32	Ⓐ	503479-1689	503479-1609	Ⓒ16
N093S1	0.00903	7.06	7.74	6.5	8.32	Ⓐ	503479-1489	503479-1409	Ⓒ14
	0.00790	6.06	6.74	5.5	7.32	Ⓐ	503479-1289	503479-1209	12
	0.00677	5.06	5.74	4.5	6.32	Ⓐ	503479-1089	503479-1009	10
	0.00564	4.06	4.74	3.5	5.32	Ⓐ	503479-0889	503479-0809	Ⓒ8
	0.00451	3.06	3.74	2.5	4.32	Ⓐ	503479-0689	503479-0609	Ⓒ6
M201315402	0.00363	2.56	3.24	2.0	3.82	Ⓐ	503479-0589	503479-0509	Ⓒ5
	0.00338	2.06	2.74	1.5	3.32	Ⓐ	503479-0489	503479-0409	4
PDR NO.	NET WEIGHT (g)	D	C	B	A	R	Δ AFTER TREATMENT	MOLD	CIRCUIT
		503479-***9					MATERIAL NO.		

REVISED	EC NO: KOR2017-0001	2016/07/06	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 20:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	DRAWN: YRK IM	2016/07/06			mm	INCH	DRAWN BY	DATE	TITLE  0.5 FPC CONN. E/O BACKFLIP H=1.0MM ACTUATOR  <b>molex</b>	SHEET NO. 1 OF 1		
	CHKD: KSK IM	2016/07/06			4 PLACES	±0.05	±---	YRK IM			2015/06/06	
	APPR: YSK IM02	2016/07/07			3 PLACES	±0.05	±---	CHECKED BY			DATE	
					2 PLACES	±0.05	±---	SKS IM			2015/06/05	
					1 PLACE	±0.05	±---	APPROVED BY			DATE	
					0 PLACE	±---	±---					
					ANGULAR ±0.5°		MATERIAL NO.		DOCUMENT NO.			
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		E-503479-001			
							SIZE A2	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



参考吸着エリア  
PICK-UP AREA(REF.)

N: 極数  
N: CIRCUITS



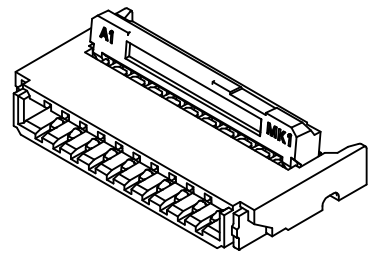
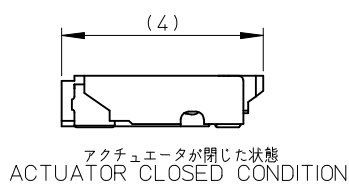
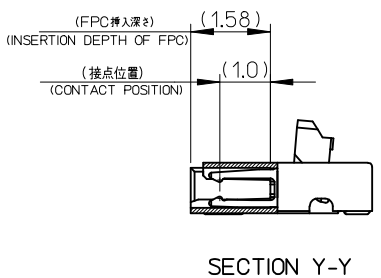
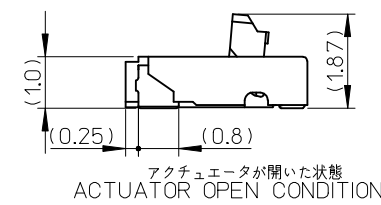
参考基板レイアウト (マウント面)  
P.W. BOARD PATTERN DIMENSION(REF.)  
(MOUNT AREA)

N: 極数  
N: CIRCUITS

メタルマスク : 0.1mm  
開口部 : TERM.(0.7X0.3)  
NAIL(1.0X0.3)  
METAL MASK THICKNESS : 0.1mm  
OPENING AREA : TERM.(0.7X0.3)  
NAIL(1.0X0.3)

16.5	17.08	15.5	17.7	503480-3200	32
13.5	14.08	12.5	14.7	503480-2600	26
12.5	13.08	11.5	13.7	503480-2400	24
11.5	12.08	10.5	12.7	503480-2200	22
10.5	11.08	9.5	11.7	503480-2000	20
9.5	10.08	8.5	10.7	503480-1800	18
9.0	9.58	8.0	10.2	503480-1700	17
8.5	9.08	7.5	9.7	503480-1600	16
7.5	8.08	6.5	8.7	503480-1400	14
6.5	7.08	5.5	7.7	503480-1200	12
5.5	6.08	4.5	6.7	503480-1000	10
4.5	5.08	3.5	5.7	503480-0800	8
3.5	4.08	2.5	4.7	503480-0600	6
3.0	3.58	2.0	4.2	503480-0500	5
2.5	3.08	1.5	3.7	503480-0400	4
D	C	B	A	EMBOSSED PACKAGE	極数
				オーダー番号 ORDER NO.	CIRCUIT

CONNECTOR SERIES No. 503480-\*\*09



REVISED EC NO: KOR2015-0144 DRWN:YRKIM CHKD:SKIM APPR:YSKIM02 2015/06/05 2015/06/05 2015/06/08	DESCRIPTION REV	QUALITY SYMBOLS <div>▽=0</div> <div>◇=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	<div>THIRD ANGLE PROJECTION</div>	CORRELATOR SERIES NO. 503480 X40S		
			4 PLACES	mm	INCH	DRAWN BY THIRAYAMA	DATE 2009/12/11	TITLE 0.5 FPC CONN. E/O BACKFLIP H=1.0MM ASSEMBLY <b>molex</b>		DOCUMENT NO. SD-503480-001	SHEET NO. 1 OF 2	
				3 PLACES	± 0.2	± ---	CHECKED BY NMATSUURA					DATE 2009/12/11
				2 PLACES	± 0.25	± ---	APPROVED BY KMORIKAWA					DATE 2010/10/13
				1 PLACE	± 0.3	± ---	MATERIAL NO. SEE CHART					
			ANGULAR ± 1 °			SIZE A3				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									

## NOTES

## 1. 部品構成

## PART COMPOSITION

ハウジング・・・材質：液晶ポリマー（LCP）、ガラス充填、UL94V-0、ナチュラル（白）  
HOUSING MATERIAL: LIQUID CRYSTAL POLYMER(LCP), GLASS FILLED, UL94V-0, NATURAL(WHITE)

ターミナル・・・材質：焼青銅

TERMINAL MATERIAL: PHOSPHOR BRONZE

コンタクト部：部分金メッキ（0.1μm以上）

テール部：部分金メッキ

下地：ニッケルメッキ（1.0μm以上）

CONTACT AREA : SEPARATED GOLD PLATING  
(0.1 MICROMETER MINIMUM)

SOLDER TAIL AREA : SEPARATED GOLD PLATING

UNDERPLATE : NICKEL OVERALL  
(1.0 MICROMETER MINIMUM)

アクチュエータ・・・材質：ポリアミド（PA）、ガラス充填、UL94 HB、黒色

ACTUATOR MATERIAL: POLYAMIDE(PA), GLASS FILLED,  
UL94 HB, BLACK

ネイル・・・材質：焼青銅

NAIL MATERIAL: PHOSPHOR BRONZE

テール部：錫メッキ（1.0μm以上）

下地：ニッケルメッキ（1.0μm以上）

SOLDER TAIL AREA : TIN OVERALL (1.0 MICROMETER MINIMUM)

UNDERPLATE : NICKEL OVERALL (1.0 MICROMETER MINIMUM)

## 2. 基板実装前にアクチュエータを操作しないで下さい。

PLEASE DO NOT OPERATE THE ACTUATOR BEFORE MOUNTING.

## 3. 必ずFPCを挿入してからアクチュエータを操作して下さい。

PLEASE OPERATE THE ACTUATOR AFTER INSERTING THE FPC INTO THE CONNECTOR.

## 4. 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.

打抜き方向は導体側から補強板側を推奨致します。

導体部については軟銅箔35μmを推奨致します。

RECOMMENDED PUNCHER DIRECTION:

FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.

RECOMMENDED CONDUCTOR SPECIFICATION:

THICKNESS OF SOFT COPPER FOIL: 35MICROMETER

△ R0.3は、FPC導体部にかからないこと。

R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.

## 6. ELV及びRoHS適合品

ELV AND RoHS COMPLIANT

## 7. 平坦度：0.1以下

COPLANARITY : 0.1 MAXIMUM

## 8. 製造上の都合により機能に阻害しない部位の形状を変更する可能性があります。

PLEASE RECOGNIZE A POSSIBILITY TO CHANGE THE SHAPE

OF THE PART THAT DOES NOT OBSTRUCT A FUNCTION,

BY CIRCUMSTANCES IN OUR PRODUCTION.

## 9. 本製品の納入状態はアクチュエータが開いた状態となります。

THIS PRODUCT IS DELIVERED WITH THE ACTUATOR

IN THE OPEN POSITION.

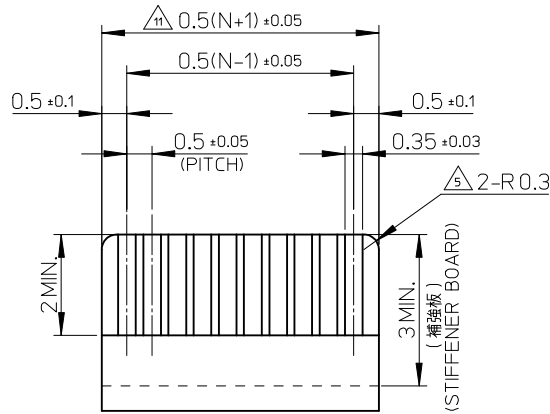
## 10. 本製品は両面(上面、下面)接触に対応しております。

THIS PRODUCT IS DUAL-CONTACT

(TOP AND BOTTOM-CONTACTS) TYPE CONNECTOR.

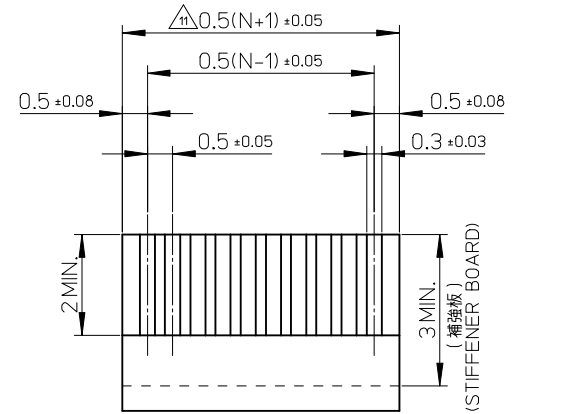
FPC幅が0.5(N+1)+0.02を超える場合、FPC挿入性の事前確認をお願いします。

PLEASE CONFIRM TO INSERT FPC IN ADVANCE WHEN FPC  
WIDTH IS OVER 0.5(N+1)+0.02.



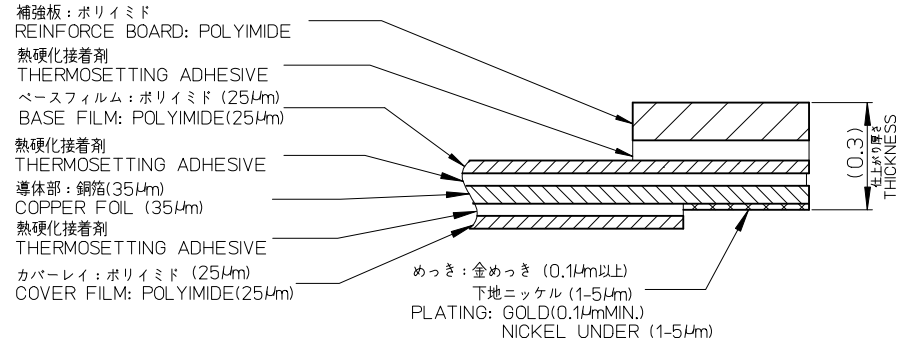
適合FPC推奨寸法  
APPLICABLE FPC  
RECOMMENDED DIMENSION

(仕上がり厚さ: 0.3±0.05) : 30極以下に適用  
(THICKNESS: 0.3±0.05) : 30 OR LESS CIRCUITS  
(仕上がり厚さ: 0.3±0.03) : 31極以上に適用  
(THICKNESS: 0.3±0.03) : 31 OR OVER CIRCUITS



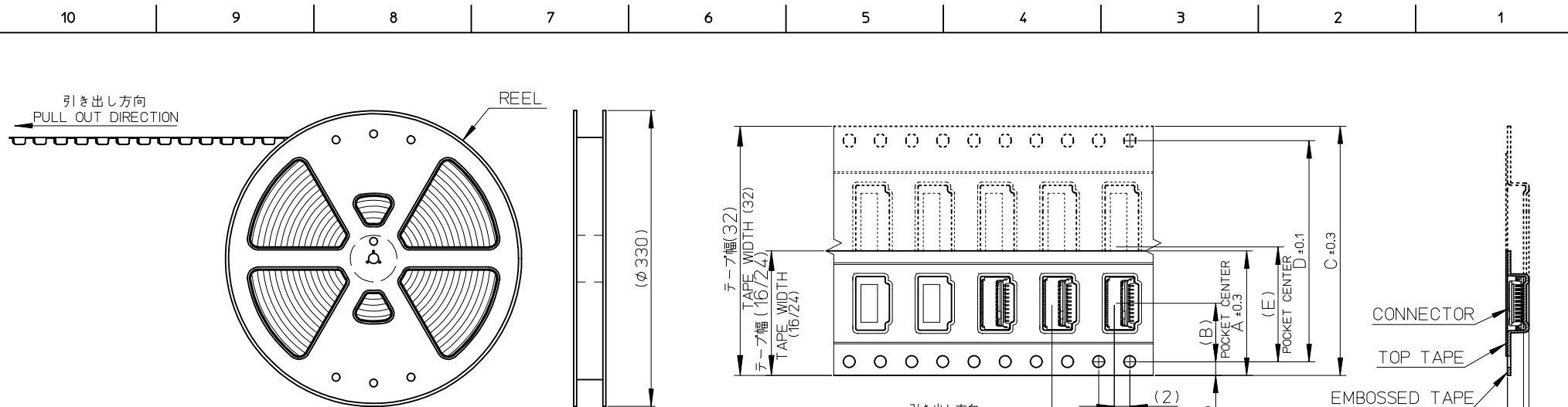
適合FFC推奨寸法  
APPLICABLE FFC  
RECOMMENDED DIMENSION

(仕上がり厚さ: 0.3±0.05) : 30極以下に適用  
(THICKNESS: 0.3±0.05) : 30 OR LESS CIRCUITS  
(仕上がり厚さ: 0.3±0.03) : 31極以上に適用  
(THICKNESS: 0.3±0.03) : 31 OR OVER CIRCUITS



FPC構成推奨仕様  
STRUCTURE OF FPC

SEE SHEET1 EC NO: KOR2015-0144 DRWN:YRKIM 2015/06/05 CHKD:SKIM 2015/06/05 APPR:YSKIM02 2015/06/08	DESCRIPTION	QUALITY SYMBOLS  ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY	DATE	TITLE  0.5 FPC CONN. E/O BACKFLIP H=1.0MM ASSEMBLY  <b>molex</b>	DOCUMENT NO.  SD-503480-001	SHEET NO. 2 OF 2			
			4 PLACES	± ---	± ---	THIRAYAMA	2009/12/11						
			3 PLACES	± 0.2	± ---	CHECKED BY	DATE						
			2 PLACES	± 0.25	± ---	NMATSUURA	2009/12/11						
			1 PLACE	± 0.3	± ---	APPROVED BY	DATE	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE SHEET1	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
			ANGULAR ± 1 °		KMORIKAWA	2010/10/13							
					MATERIAL NO.								
			REV					SIZE A3					

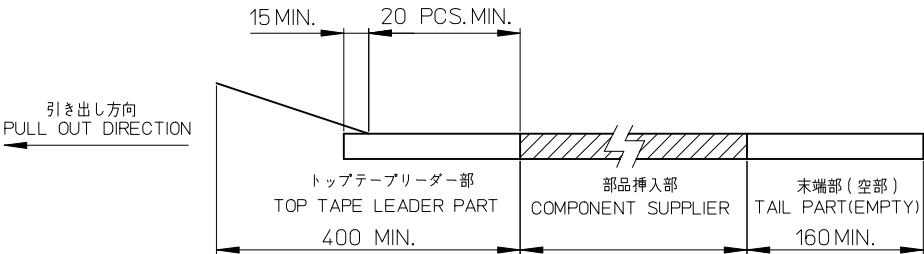


NOTES

1.製品(503480-\*\*-09)の詳細寸法については、SD-503480-001をご参照下さい。  
IN THE PACKAGE, PART NO.503480-\*\*-09 DETAILED DIMENSIONS.  
REFER TO SD-503480-001.

2.梱包数量:3000個/リール  
NUMBER OF CONNECTORS:3000PCS/REEL

3.リードテープの長さ  
LEAD TAPE LENGTH  
トップテープ未接着部 TOP TAPE NON-BONDED PART  
トップテープ接着部(空エンボス) TOP TAPE BONDED PART(EMPTY)



4.材料  
キャリアテープ :PET  
トップテープ :PET, OTHER  
リール :PS<リサイクル材を含む>  
MATERIAL  
CARRIER TAPE :PET  
TOP TAPE :PET,OTHER  
REEL :PS <RECYCLE MATERIAL CONTAINED>

5.カバーテープの剥離強度については、IEC60286-3に準拠  
COVER TAPE PEEL FORCE IS DEFINED BY IEC60286-3.

エンボステープ内の製品の向き  
DIRECTION OF CONNECTOR IN EMBOSSED TAPE

14.2	28.4	32	-	-	32	503480-3200	32
-	-	-	11.5	24	24	503480-2600	26
-	-	-	7.5	16	16	503480-2400	24
-	-	-	7.5	16	16	503480-2200	22
-	-	-	7.5	16	16	503480-2000	20
-	-	-	7.5	16	16	503480-1800	18
-	-	-	7.5	16	16	503480-1700	17
-	-	-	7.5	16	16	503480-1600	16
-	-	-	7.5	16	16	503480-1400	14
-	-	-	7.5	16	16	503480-1200	12
-	-	-	7.5	16	16	503480-1000	10
-	-	-	7.5	16	16	503480-0800	8
-	-	-	7.5	16	16	503480-0600	6
-	-	-	7.5	16	16	503480-0500	5
-	-	-	7.5	16	16	503480-0400	4
E	D	C	B	A	テープ幅 TAPE WIDTH	オーダー番号 ORDER NO.	極数 CIRCUIT

REVISED		EC NO: KOR2015-0144		2015/06/05		2015/06/05		2015/06/08		DESCRIPTION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE MM ONLY				SCALE 2:1		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION			
												▽=0				mm		INCH		DRAWN BY THIRAYAMA		DATE 2009/12/11		TITLE 0.5 FPC CONN. E/O EMBOSSED TAPE PACKAGE		molex		SHEET NO. 1 OF 1	
										▽=0		4 PLACES		± 0.2		± ---		CHECKED BY		DATE									
												3 PLACES		± 0.25		± ---													
												2 PLACES		± 0.3		± ---		NMATSUURA		2009/12/11									
												1 PLACE		± ---		± ---		APPROVED BY		DATE									
																ANGULAR ± 3 °				KMORI KAWA		2009/12/11							
																				MATERIAL NO.		DOCUMENT NO.							
																				SEE TABLE		SD-503480-002							
																				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							