

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [5034802000](#)
Status: **Active**
Description: 0.50mm (.020") Pitch Easy-On™ BackFlip™ FPC Connector, 1.00mm (.039") Height, Right Angle, SMT, Dual Contact Style, 20 Circuits

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Product Specification PS-503480-001 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family FFC/FPC Connectors
Series [503480](#)
Product Name BackFlip™, Easy-On™

Physical

Circuits (Loaded) 20
Color - Resin Black, White
Contact Position Dual
Durability (mating cycles max) 10
Entry Angle 90° Angle
Mated Height (in) 0.039 In
Mated Height (mm) 1.00 mm
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Gold, Tin
Number of Rows 1
Orientation Right Angle
PCB Locator No
PCB Retention Yes
Packaging Type Embossed Tape on Reel
Pitch - Mating Interface (in) 0.020 In
Pitch - Mating Interface (mm) 0.50 mm
Polarized to PCB Yes
Stackable No
Temperature Range - Operating -40°C to +85°C
Termination Interface: Style Surface Mount
Wire/Cable Type FFC/FPC

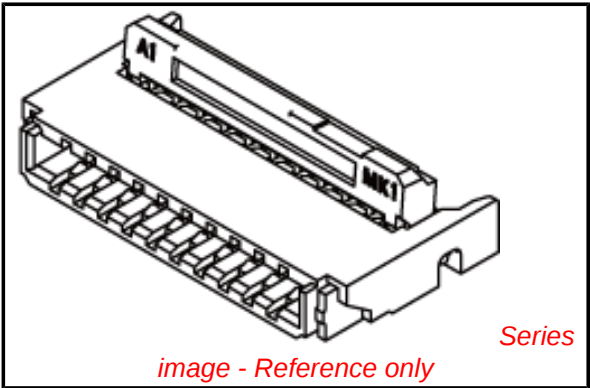
Electrical

Current - Maximum per Contact 0.5A
Voltage - Maximum 50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Packaging Specification SPK-503480-001
Product Specification PS-503480-001, RPS-503480-001, RPS-503480-002, RPS-503480-003
Sales Drawing SD-503480-001, SD-503480-002



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Not Reviewed

China RoHS

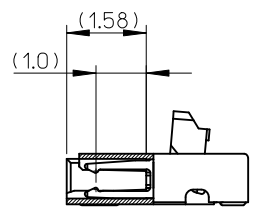
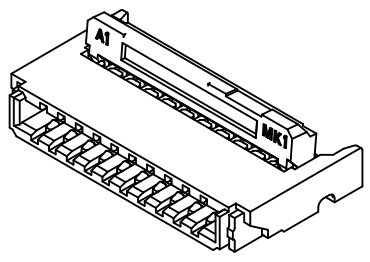
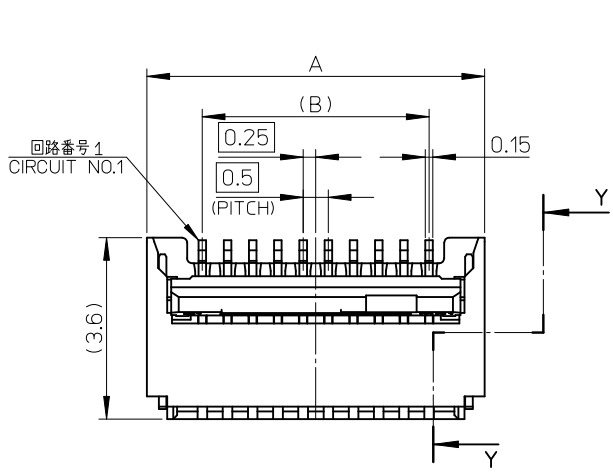


Need more information on product environmental compliance?

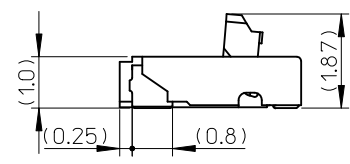
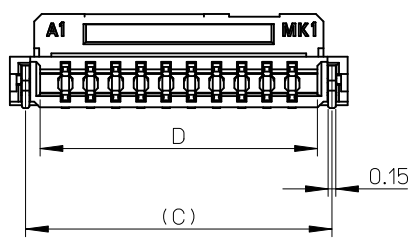
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

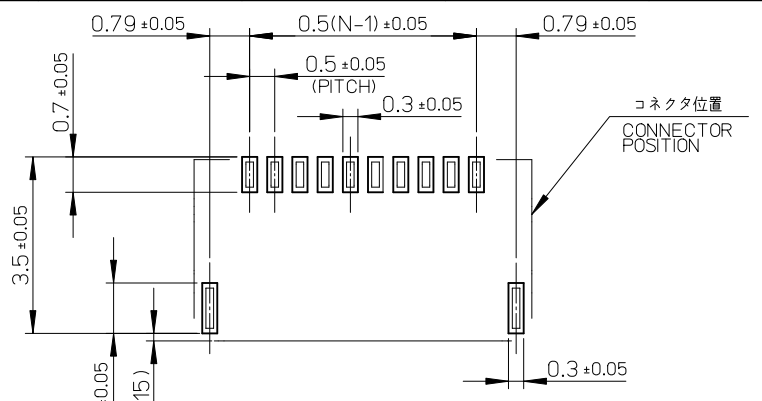
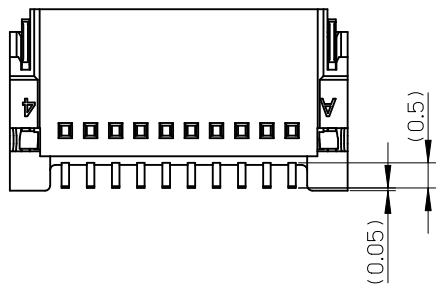
Search Parts in this Series
[503480Series](#)



SECTION Y-Y



アクチュエータが閉じた状態
ACTUATOR CLOSED CONDITION



参考基板レイアウト (マウント面)
P.W.B.O.A.R.D P.A.T.T.E.R.N D.I.M.E.N.S.I.O.N (R.E.F.)
(M.O.U.N.T A.R.E.A)

メタルマスク : 0.1mm
開口部 : T.E.R.M.(0.7X0.3)
N.A.I.L(1.0X0.3)
M.E.T.A.L M.A.S.K T.H.I.C.K.N.E.S.S : 0.1mm
O.P.E.N.I.N.G A.R.E.A R.A.T.I.O : T.E.R.M.(0.7X0.3)
N.A.I.L(1.0X0.3)

N: 極数
N: CIRCUITS

16.5	17.08	15.5	17.7	503480-3200	32
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
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		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: J2010-2472		10 UNDER ± 0.2		MM ONLY		10:1		METRIC		THIRD ANGLE PROJECTION	
DRWN: THIRAYAMA 2010/04/29		10 OVER 30 UNDER ± 0.25		DRAWN BY THIRAYAMA DATE 2009/12/11		TITLE		0.5 FPC CONN. E/O BACKFLIP H=1.0MM ASSEMBLY			
CHKD: MATSUURA 2010/04/29		30 OVER ± 0.3		CHECKED BY NMATSUURA DATE 2009/12/11		APPROVED BY KMORIKAWA DATE 2009/12/11		MOLEX INCORPORATED			
APPR: KMORIKAWA 2010/05/12		ANGULAR ± 1 °		MATERIAL NO.		SEE CHART		DOCUMENT NO.		SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SD-503480-001		1 OF 2	

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：燐青銅
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：燐青銅

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

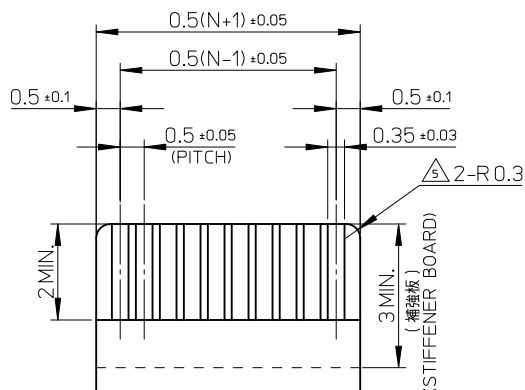
ELV AND RoHS COMPLIANT

7. 平坦度：0.1以下

COPLANARITY：0.1 MAXIMUM

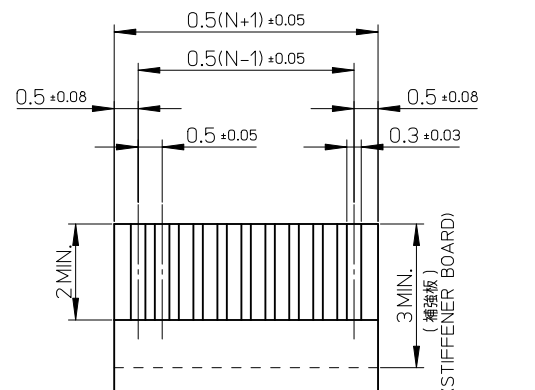
8. 製造上の都合により機能を阻害しない部位の形状を変更する可能性があります。

PLEASE RECOGNIZE A POSSIBILITY TO CHANGE THE SHAPE OF THE PART THAT DOES NOT OBSTRUCT A FUNCTION, BY CIRCUMSTANCES IN OUR PRODUCTION.



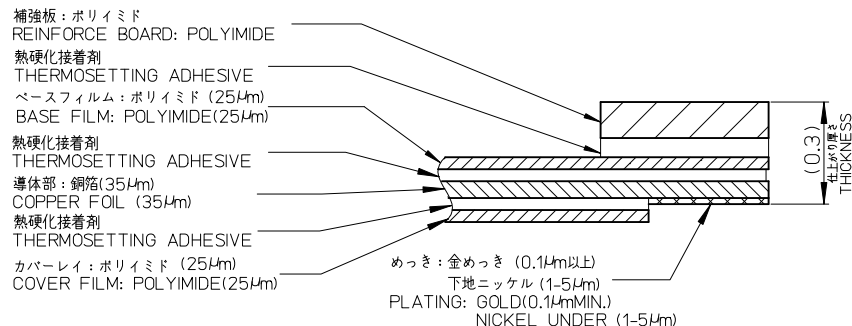
適合FPC推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION

(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



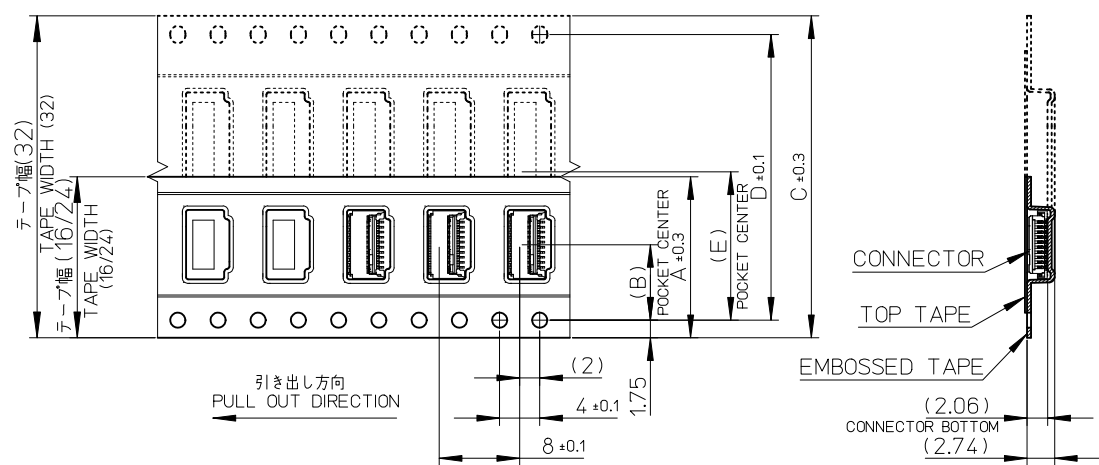
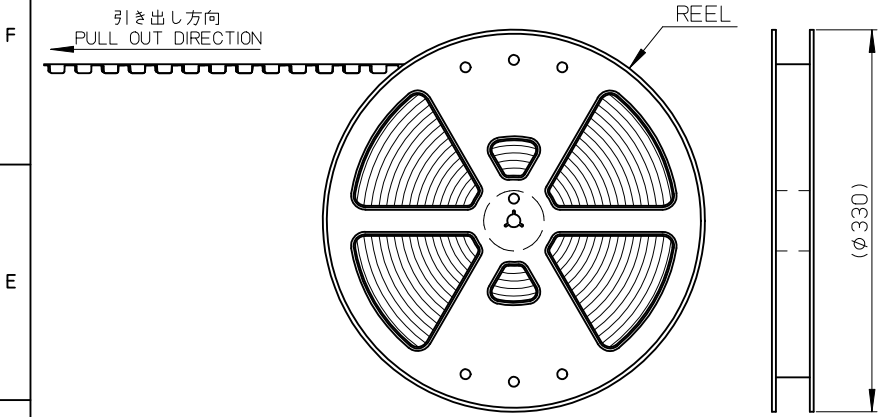
適合FFC推奨寸法
APPLICABLE FFC
RECOMMENDED DIMENSION

(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 SHEET 1 EC NO: J2010-2172 DRWN: THIRAYAMA 2010/04/29 CHKD: NMATSUURA 2010/04/29 APPR: KMORIKAWA 2010/05/12	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		10 UNDER	±0.2	DRAWN BY THIRAYAMA	DATE 2009/12/11	TITLE 0.5 FPC CONN. E/O BACKFLIP H=1.0MM ASSEMBLY			
		10 OVER 30 UNDER	±0.25	CHECKED BY NMATSUURA	DATE 2009/12/11				
		30 OVER	±0.3	APPROVED BY KMORIKAWA	DATE 2009/12/11	 MOLEX INCORPORATED			
		ANGULAR ±1 °	MATERIAL NO.		DOCUMENT NO.				SHEET NO.
	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-503480-001		2 OF 2	
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

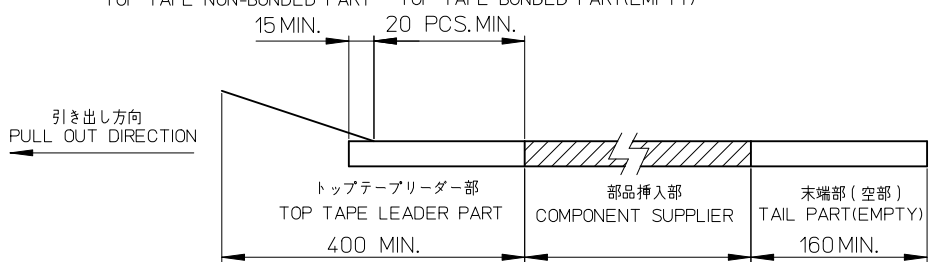


NOTES

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>

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

14.2	28.4	32	-	-	32	503480-3200	32
-	-	-	11.5	24	24	503480-2200	22
-	-	-	-	-	-	503480-2000	20
-	-	-	-	-	-	503480-1800	18
-	-	-	-	-	-	503480-1700	17
-	-	-	-	-	-	503480-1600	16
-	-	-	-	-	-	503480-1400	14
-	-	-	-	-	-	503480-1200	12
-	-	-	-	-	-	503480-1000	10
-	-	-	7.5	16	16	503480-0800	8
-	-	-	-	-	-	503480-0600	6
-	-	-	-	-	-	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: J2010-2472 DRAWN: THIRAYAMA 2010/03/17 CHKD: NMATSUURA 2010/04/29 APPR: KMORIKAWA 2010/05/12 B	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		10 UNDER	± 0.2	DRAWN BY THIRAYAMA	DATE 2009/12/11	TITLE 0.5 FPC CONN. E/O EMBOSSD TAPE PACKAGE					
		10 OVER 30 UNDER	± 0.25	CHECKED BY NMATSUURA	DATE 2009/12/11						
		30 OVER	± 0.3	APPROVED BY KMORIKAWA	DATE 2009/12/11						MOLEX MOLEX INCORPORATED
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.					SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-503480-002					1 OF 1
		REV		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					