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Part Number: [5018643092](#)
Status: **Active**
Overview: [ffc_fpc_smt](#)
Description: 0.50mm (.020") Pitch FFC-to-Board Connector, Receptacle Housing Assy, Right Angle, SMT, without Grounding terminals, 30 Circuits

Documents:
[3D Model](#) [Product Specification PS-501864-004 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family FFC/FPC Connectors
Series [501864](#)
Comments without Grounding terminals
Overview [ffc_fpc_smt](#)
Product Name N/A

Physical

Circuits (Loaded) 30
Color - Resin Black
Contact Position Bottom
Durability (mating cycles max) 20
Entry Angle 90° Angle
Mated Height (in) 0.191 In
Mated Height (mm) 4.85 mm
Material - Metal Copper Alloy
Material - Plating Mating Gold
Material - Plating Termination Gold
Number of Rows 1
Orientation Right Angle
PCB Locator Yes
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 only

Electrical

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

Material Info

Reference - Drawing Numbers

Packaging Specification SPK-501864-001
Product Specification PS-501864-004, RPS-501864-001
Sales Drawing SD-501864-012, SD-501864-013

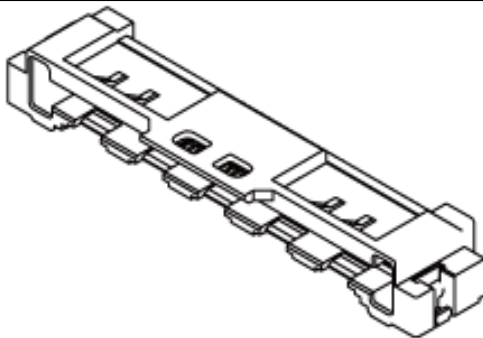


image - Reference only

Series

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

China RoHS



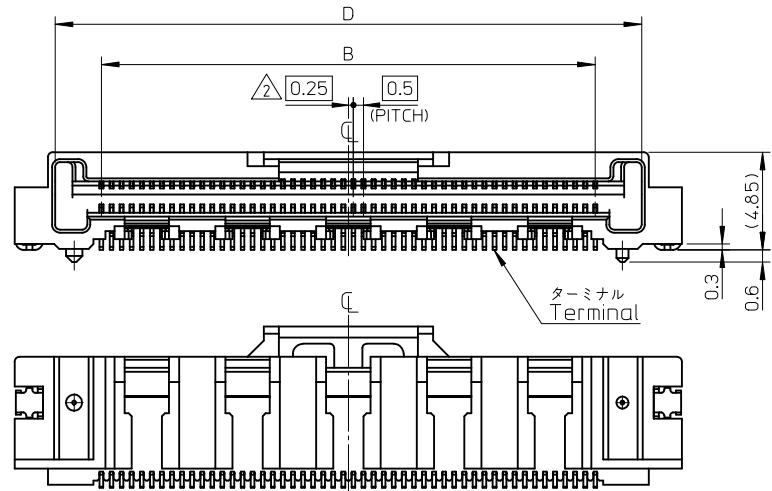
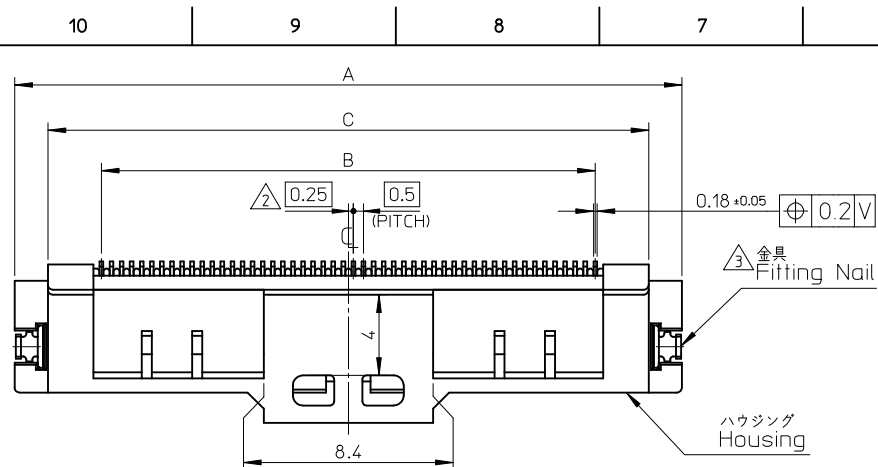
Need more information on product environmental compliance?

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
[501864Series](#)

Use With
[501783-3009](#) Plug Jacket . [501784-3009](#) Plug Jacket Cover



注 記
NOTE

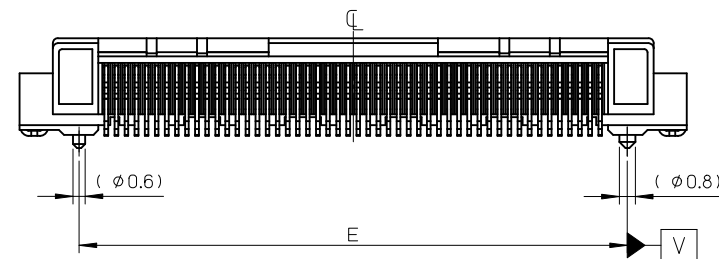
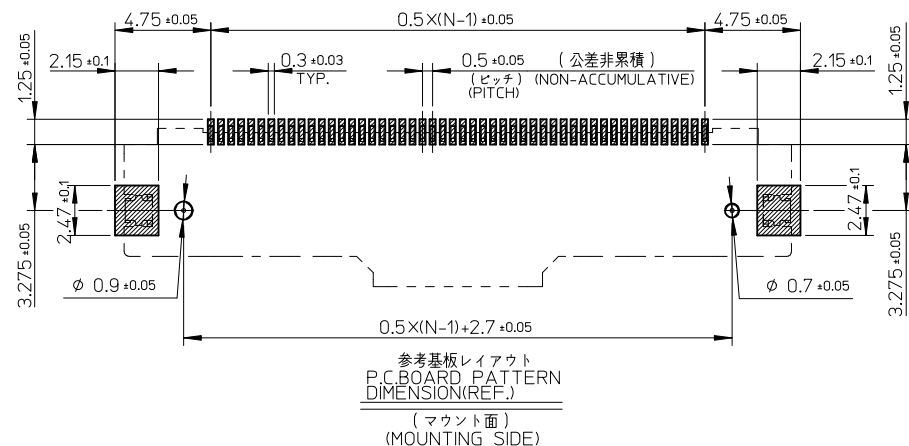
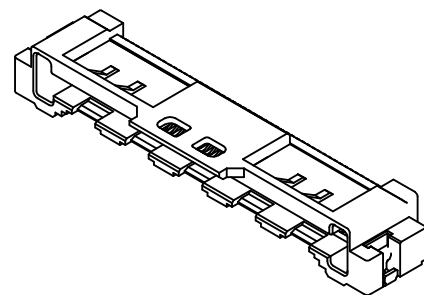
1. 使用材料
MATERIAL
ハウジング
HOUSING

ターミナル
TERMINAL

金具
FITTING NAIL

：液晶ポリマー（LCP）、ガラス充填、
UL94V-0 色：黒色
LIQUID CRYSTAL POLYMER(LCP)
GLASS FILLED,UL94V-0 COLOR:BLACK
：銅合金(τ=0.18)
ニッケル下地 金メッキ (コンタクト、テール部)
COPPER ALLOY(τ=0.18)
GOLD PLATING(CONTACT, TAIL AREA) OVER NICKEL PLATING.
：銅合金(τ=0.25)
ニッケル下地 錫メッキ
COPPER ALLOY(τ=0.25)
TIN OVER NICKEL PLATING.

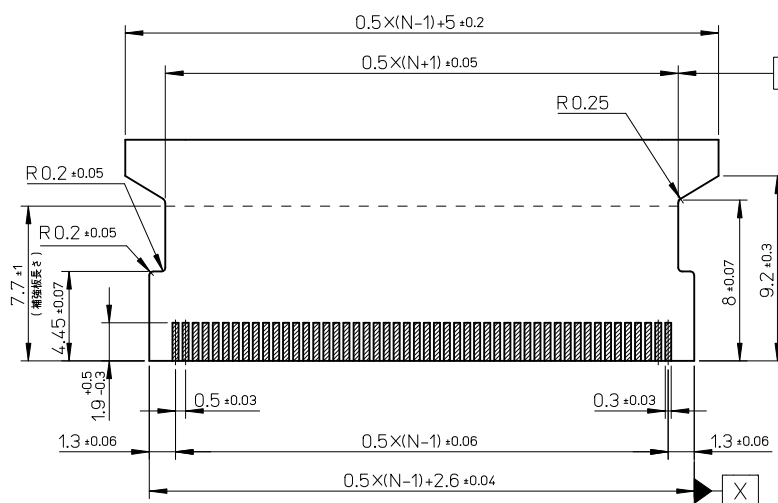
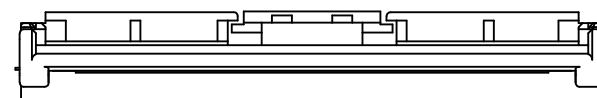
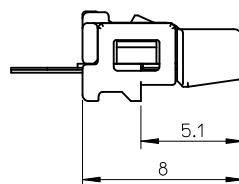
- △2 N=偶数に適用 (N:極数)
APPLY FOR N-EVEN(CIRCUIT)
- △3 パターン剥離止め用金具
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B PATERN.
- △4 適合ジャケット:501783-**09
製品詳細寸法はSD-501783-001を参照下さい。
APPLICABLE JACKET:501783-**09.RE DETAILED DIMENSION,SEE SD-501783-001.
- △5 適合ジャケットカバー:501784-**09
製品詳細寸法はSD-501784-001を参照下さい。
APPLICABLE JACKET:501784-**09.RE DETAILED DIMENSION,SEE SD-501784-001.
6. ELV及びRoHS適合品
ELV AND RoHS COMPLIANT



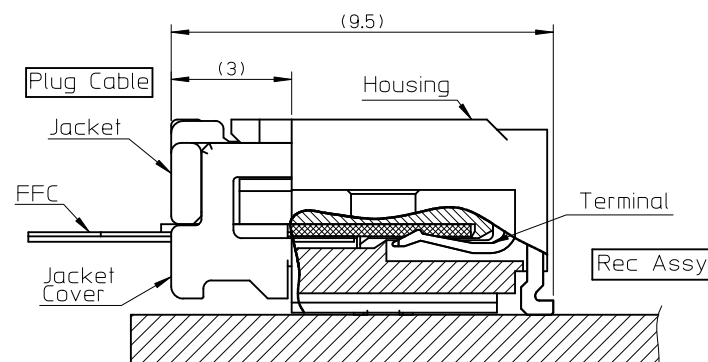
42.2	44.1	44.8	39.5	48.1	501864-8090	80
27.2	29.1	29.8	24.5	33.1	501864-5090	50
E	D	C	B	A	EMBOSSED PACKAGE	極 数
オーダー番号 ORDER NO.						CIRCUITS

CONNECTOR SERIES NO. 501864-**11

REVISED EC NO.: J2010-1937 DWG.: YWRI CHKD.: MATSUURA APPD.: KIMORI KAWA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE —//—	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		10 UNDER	± 0.2	DRAWN BY H. IJIMA	DATE 06/01/13	TITLE 0.5 FFC TO BOARD CONN REC. HSG ASSY(RA)			
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TAKAHASHI	DATE 06/01/13				
		30 OVER	± 0.3	APPROVED BY H. HIRATA	DATE 06/01/13				
		ANGULAR ±1 °		MATERIAL NO. 501864-**-11		DOCUMENT NO. SD-501864-001		SHEET NO. 1 OF 2	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
				SIZE A3					

 コネクタ接点部

適合FFC寸法
APPLICABLE FFC
RECOMMENDED DIMENSION
(仕上がり厚さ: 接点部 0.3 ± 0.03)



嵌合断面図

SEE SHEET 1 OF 2 EC NO: J2010-1937 DRAWN:YORI CHKD:WATSUURA APPR:KMOIKAWA	2010/03/25 2010/05/10	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE —//—	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
			10 UNDER	± 0.2	H. IJIMA	DATE 06/01/13	TITLE 0.5 FFC TO BOARD CONN REC. HSG ASSY(RA)			
			10 OVER 30 UNDER	± 0.25	K. TAKAHASHI	DATE 06/01/13				
			30 OVER	± 0.3	H. HIRATA	DATE 06/01/13				
			ANGULAR ±1 °		MATERIAL NO. 501864-**-11		DOCUMENT NO. SD-501864-001		SHEET NO. 2 OF 2	
	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						

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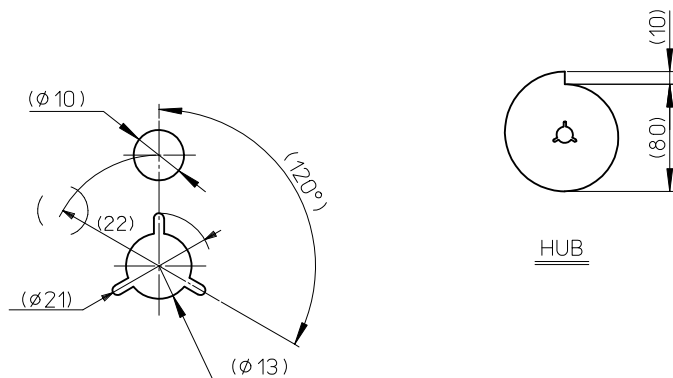
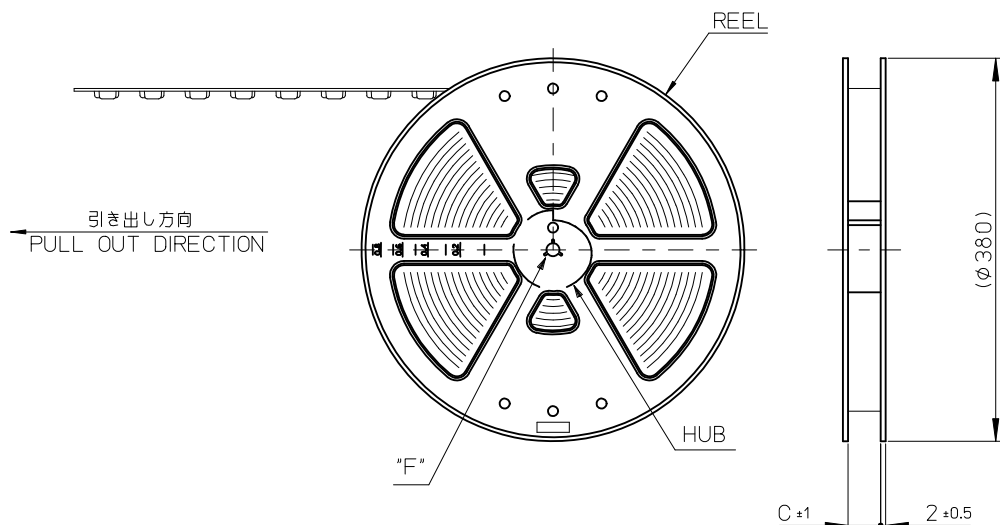
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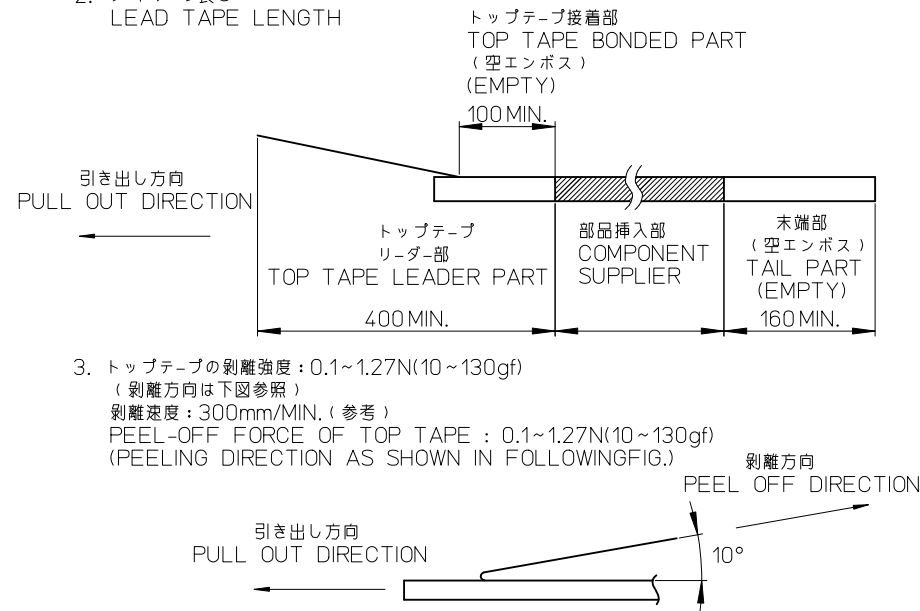
1

NOTES

- 極包数量：900 個ノリール
NUMBER OF CONNECTORS:900 PCS/REEL
- リードテープ長さ
LEAD TAPE LENGTH



DETAIL "F"



- トップテープの剥離強度：0.1~1.27N(10~130gf)
(剥離方向は下図参照)
剥離速度：300mm/MIN.(参考)
PEEL-OFF FORCE OF TOP TAPE : 0.1~1.27N(10~130gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWINGFIG.)
- 製品詳細寸法については図面 SD-501864-001を参照下さい。
RE DETAILED DIMENSION, SEE SD-501864-001.
- 材料(MATERIAL)
キャリアテープ(CARRIER TAPE)：ポリスチレン(POLYSTYRENE)
トップテープ(TOP TAPE)：PET, PE, PE
リール(REEL)：ポリスチレン(POLYSTYRENE)
- ELV及びRoHS適合品
ELV AND RoHS COMPLIANT

REVISED EC NO.: J2010-1937 DWG: YWRI CHKD: MATSUURA APP: KMORI KAWA	2010/03/25	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
	2010/03/25		10 UNDER	±0.2	DRAWN BY H. IJIMA	DATE 06/01/17	TITLE EMBSTP PKG FOR 0.5 FFC TO BOARD CONN RA TYPE				
	2010/03/25		10 OVER 30 UNDER	±0.25	CHECKED BY K. TAKAHASHI	DATE 06/01/17					
	2010/05/10		30 OVER	±0.3	APPROVED BY H. HIRATA	DATE 06/01/17	MOLEX MOLEX INCORPORATED				
			ANGULAR	±1 °	MATERIAL NO. 501864-**90		DOCUMENT NO. SD-501864-003		SHEET NO. 1 OF 2		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								
	A		REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

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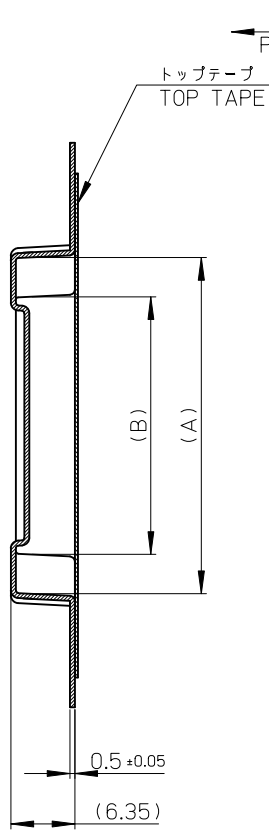
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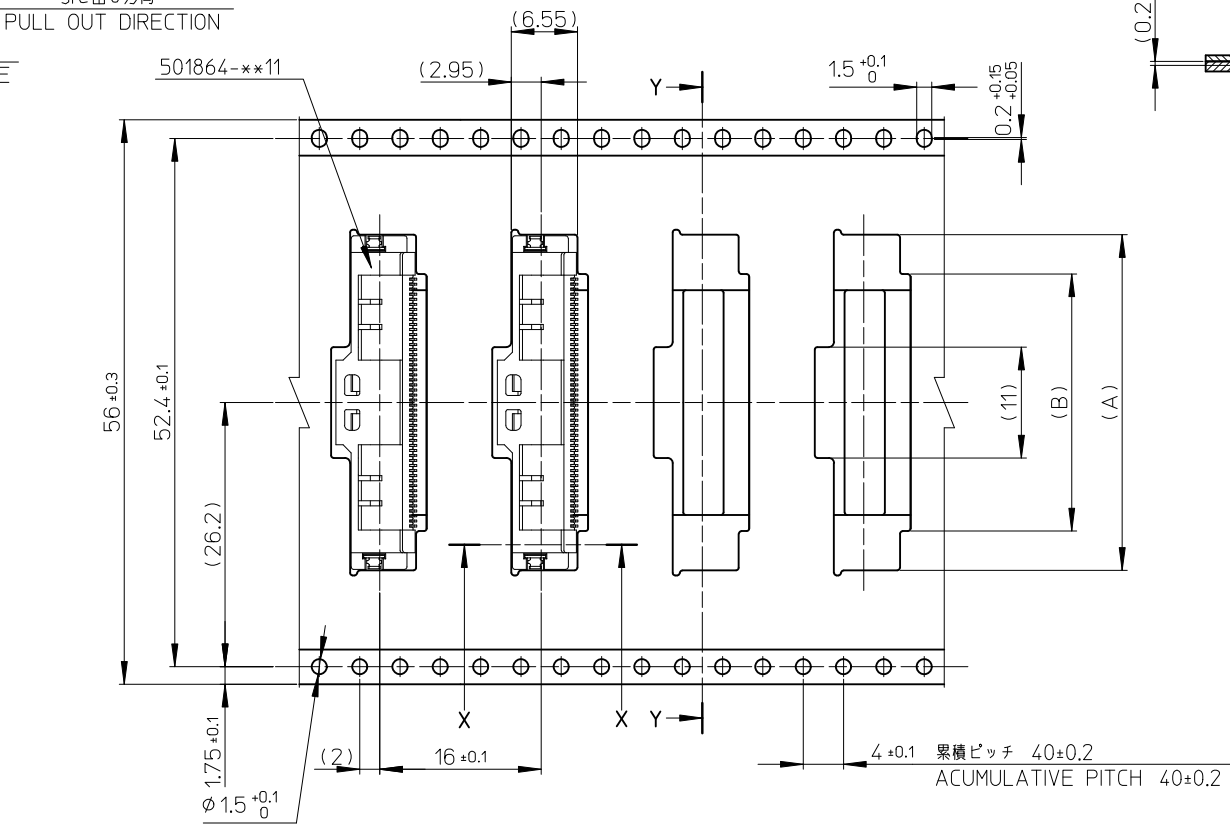
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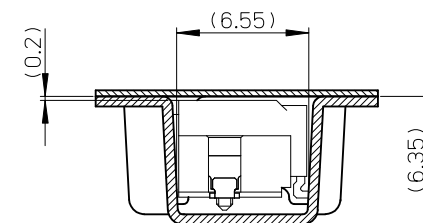


SECT. Y-Y

引き出し方向
PULL OUT DIRECTION



56mm幅キャリアテープ
56mm WIDTH CARRIER TAPE



SECT. X-X

56	57.4	25.5	33.3	501864-5090	50
キャリアテープ幅 CARRIER TAPE WIDTH	C	B	A	オーダー番号 ORDER NO.	極数 CKT

SEE SHEET 1 OF 2	2010/03/25 2010/03/25 2010/03/25 2010/05/10	DESCRIPTION REV A	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			10 UNDER	±0.2	DRAWN BY H. IJIMA	DATE 06/01/17	TITLE EMBSTP PKG FOR 0.5 FFC TO BOARD CONN RA TYPE		
			10 OVER 30 UNDER	±0.25	CHECKED BY K. TAKAHASHI	DATE 06/01/17			
			30 OVER	±0.3	APPROVED BY H. HIRATA	DATE 06/01/17			
			ANGULAR ±1 °		MATERIAL NO. 501864-**90		DOCUMENT NO. SD-501864-003	SHEET NO. 2 OF 2	
			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			