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Part Number: [0537800770](#)
Status: **Active**
Overview: [panelmate_125mm_049_pitch_ultra_lowprofile](#)
Description: 1.25mm (.049") Pitch PanelMate™ Header, Surface Mount, Right Angle, 1.90mm (.075") Height, Lead-free, 7 Circuits

Documents:

3D Model	Product Specification PS-51146-012 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)
Product Specification PS-51146-010 (PDF)	

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	53780
Application	Wire-to-Board
Overview	panelmate_125mm_049_pitch_ultra_lowprofile
Product Name	PanelMate™

Physical

Breakaway	No
Circuits (Loaded)	7
Color - Resin	Natural
Durability (mating cycles max)	50
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	1
Orientation	Right Angle
PCB Locator	No
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.049 In
Pitch - Mating Interface (mm)	1.25 mm
Polarized to PCB	No
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Surface Mount

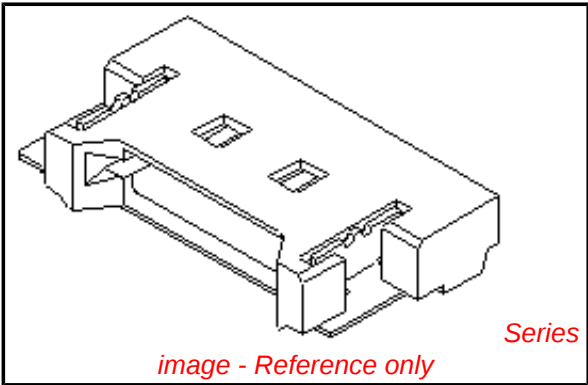
Electrical

Current - Maximum per Contact	1A
Voltage - Maximum	125V

Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-53780-ET
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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
[53780Series](#)

Mates With
[51146 PanelMate™ Wire-to-Board
Receptacle Housing](#)

Product Specification

PS-51146-010, PS-51146-012, RPS-51146-020,
RPS-51146-022, RPS-51146-023, RPS-51146-025,
RPS-51146-026, RPS-51146-027, RPS-51146-028,
RPS-51146-029

Sales Drawing

SD-53780-003, SD-53780-004

This document was generated on 05/26/2010

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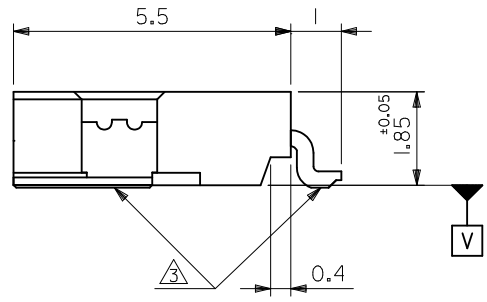
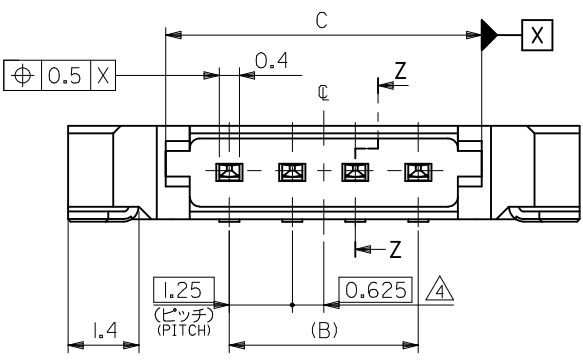
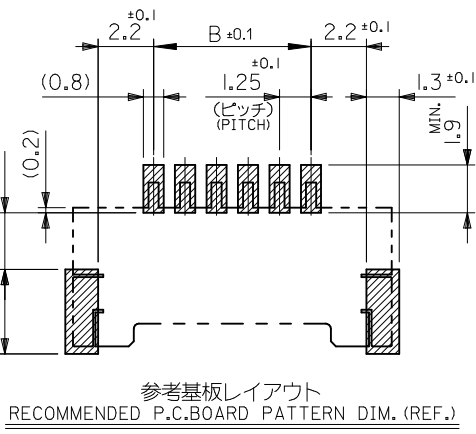
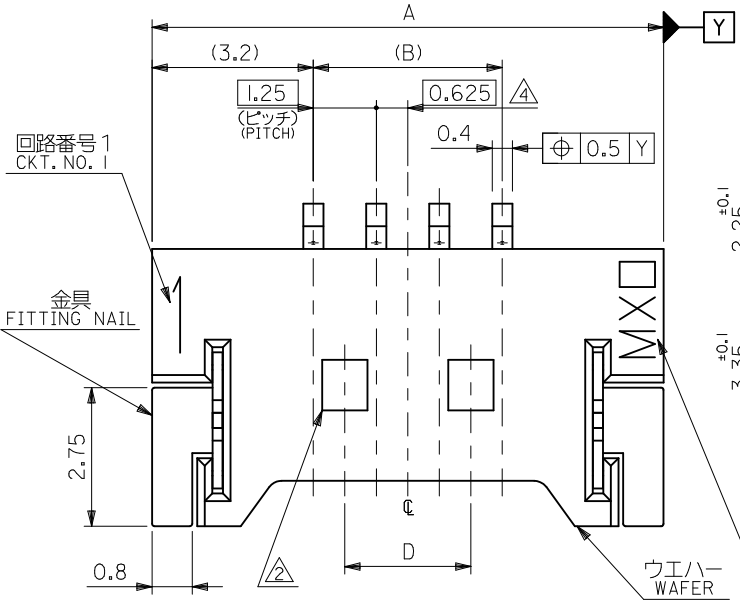
E

D

C

B

A



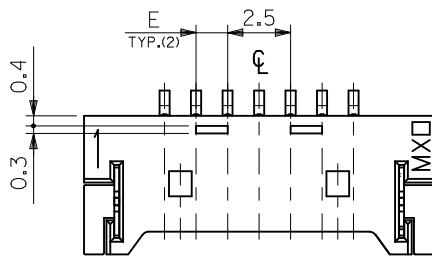
注記 NOTES

1. 嵌合相手: 51146 シリーズ
MATES WITH: 51146 SERIES
2. ロック窓は2、3極品は1箇所、4極品以上は2箇所とする。
LOCKING WINDOW: ONE PLACE FOR 2 AND 3 CIRCUIT PRODUCTS
AND TWO PLACES FOR MORE THAN 3 CIRCUIT PRODUCTS.
3. 基準面 [V] からのソルダテールと金具の半田付け面のズレ量は、
上方向に 0.05MAX.、下方向 0.15MAX.、とし、20 極以下の相互の
バラツキ量は 0.1MAX. とする。
MISALIGNMENT OF SOLDER TAIL AND FITTING NAIL FROM [V]
: UPPER DIRECTION 0.05MAX.
: LOWER DIRECTION 0.15MAX.
: OFFSET BETWEEN UPPER AND LOWER 0.1MAX. (UNDER 20 CKTS.)
4. 偶数極の製品に適用。
APPLY EVEN CIRCUIT PRODUCTS.
5. 材質 MATERIAL
ウエハー: WAFER: PPS, UL94V-0
ピン: リン青銅 PIN: PHOSPHOR BRONZE
コンタクト部: 金メッキ 0.2 マイクロメートル以上
CONTACT AREA: GOLD 0.2 MICROMETER MINIMUM
テール部: 銅メッキ 3.0 マイクロメートル以上
TAIL AREA: TIN 3.0 MICROMETER MINIMUM
下地メッキ: ニッケルメッキ 1.0 マイクロメートル以上
UNDER PLATING: NICKEL 1.0 MICROMETER MINIMUM
金具: リン青銅 FITTING NAIL: PHOSPHOR BRONZE
銅メッキ 3.0 マイクロメートル以上
TIN 3.0 MICROMETER MINIMUM
下地メッキ: ニッケルメッキ 1.0 マイクロメートル以上
UNDER PLATING: NICKEL 1.0 MICROMETER MINIMUM
6. 本製品は 53780-**-**10/-**-**18 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 53780-**-**10/-**-**18.
7. ELV 及び RoHS 適合品
ELV & RoHS COMPLIANT.

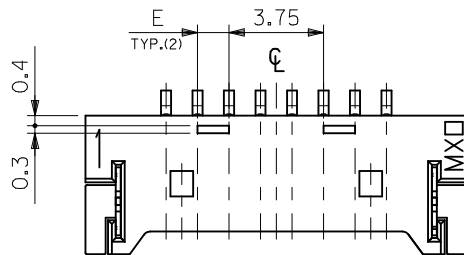
16.25	22.5	38.77	36.25	42.65	53780-3070	30
8.75	22.5	26.27	23.75	30.15	-2070	20
7.5	20	23.77	21.25	27.65	-1870	18
6.25	16.25	20.02	17.5	23.9	-1570	15
5	15	18.77	16.25	22.65	-1470	14
3.75	12.5	16.27	13.75	20.15	-1270	12
2.5	10	13.77	11.25	17.65	-1070	10
2.5	8.75	12.52	10	16.4	-0970	9
1.25	7.5	11.27	8.75	15.15	-0870	8
1.25	6.25	10.02	7.5	13.9	-0770	7
—	5	8.77	6.25	12.65	-0670	6
—	3.75	7.52	5	11.4	-0570	5
—	2.5	6.27	3.75	10.15	-0470	4
—	—	5.02	2.5	8.9	-0370	3
—	—	3.77	1.25	7.65	53780-0270	2
E	D	C	B	A	EMBOSSD PACKAGE	CKT.
—					オーダー番号 ORDER No.	極数

CONNECTOR SERIES NO. 53780-**-**19

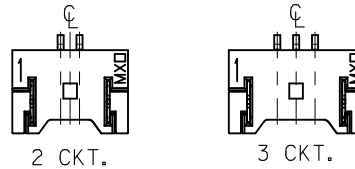
REVISED EC NO: J2010-1927 DRWN: SKUROSE CHKD: KASAKAWA APPR: NUKITA 2010/03/25 2010/03/26 2010/03/29	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
		10 UNDER	± 0.2	DRAWN BY T. UENO	DATE '04/04/15	TITLE 1.25 W/B CONN WAFER ASSY FOR SMT					
		10 OVER 30 UNDER	± 0.25	CHECKED BY M. SASAO	DATE '04/04/15						
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE '04/04/15	MOLEX INCORPORATED					
		ANGULAR	±3 °	MATERIAL NO.					DOCUMENT NO.		SHEET NO.
	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-53780-003			1 OF 2		
				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



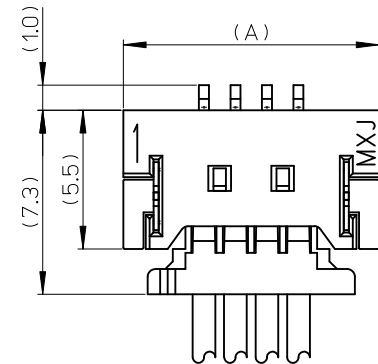
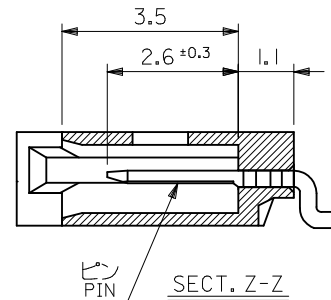
7~19極の奇数極に適用
APPLY FOR ODD CIRCUITS OF 7~19



8~30 極の偶数極に適用
APPLY FOR EVEN CIRCUITS OF 8~30

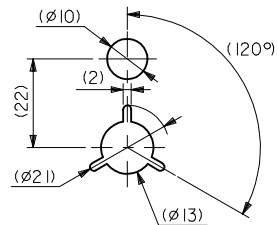


ロック形状図
LOCK CONFIGURATION



嵌合図 (SCALE 5:1)
MATED CONNECTORS (SCALE 5:1)

REVISED EC NO.: J2010-1927 DRWN:SKUROSE CHKD:KASAKAWA APPR:NUKITA	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		CONNECTOR SERIES NO. 53780-19			
		10 UNDER	±0.2	DRAWN BY T.UENO	DATE '04/04/15	SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		10 OVER 30 UNDER	±0.25	CHECKED BY M.SASAO	DATE '04/04/15	TITLE 1.25 W/B CONN WAFER ASSY FOR SMT			
		30 OVER	±0.3	APPROVED BY M.SASAO	DATE '04/04/15	MOLEX MOLEX INCORPORATED			
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-53780-003		2 OF 2	
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



EN-02JA(021)

トッpteテープ
TOP TAPE

(A)

(B)

3.2^{+0.3}

0.5^{+0.05}

SECT:Y-Y
(SCALE 5:1)

F

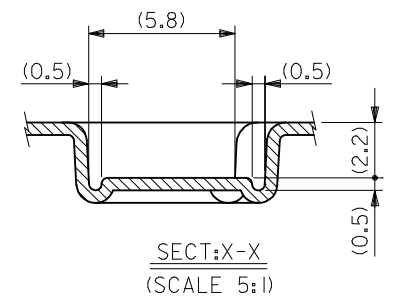
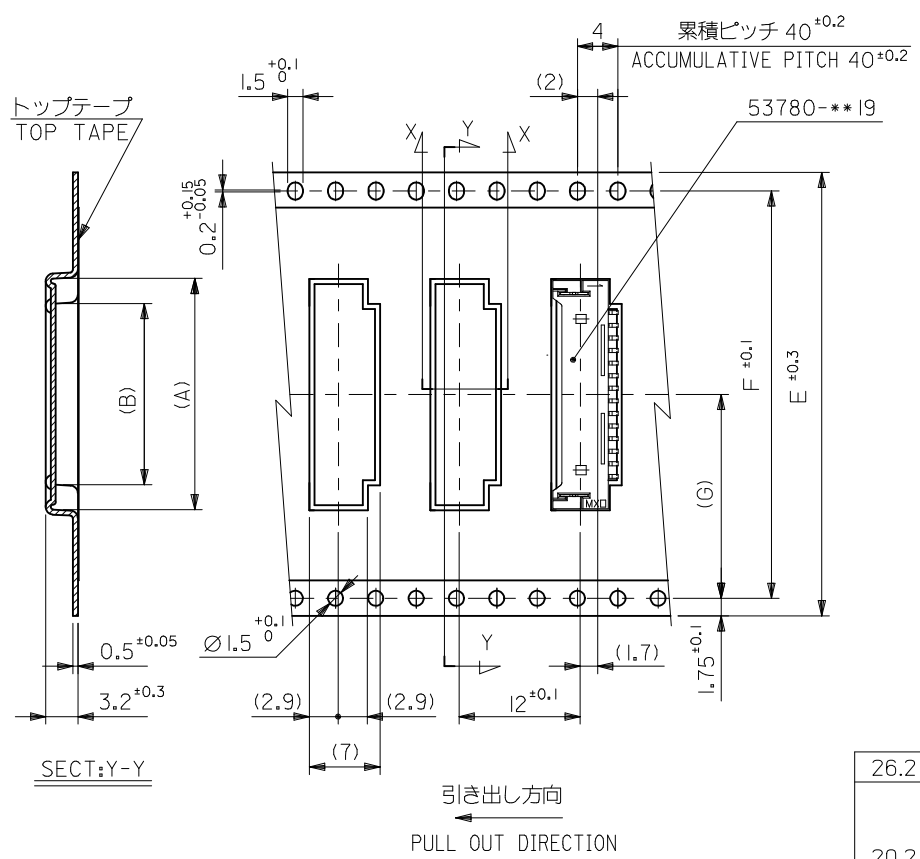
E

D

C

B

A



26.2	52.4	56	61.4	57.4	38	42.95	53780-3070	30
20.2	40.4	44	49.4	45.4	25.5	30.45	53780-2070	20
					25.5	27.95	53780-1870	18
					19.25	24.2	53780-1570	15
					18	22.95	53780-1470	14
					15.5	20.45	53780-1270	12
14.2	28.4	32	37.4	33.4	13	17.95	53780-1070	10
(G)	F	E キャリアテープ幅 CARRIER TAPE WIDTH	D	C	(B)	(A)	MATERIAL NO.	極数 CKT.

REVISED EC NO: J2010-0021 DRWN:MTAKASAKI CHKD:MHAYASHI APPR:NUKITA B	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	MODEL NO.	SHEET NO.		
				MM ONLY		---	DESIGN UNITS	THIRD ANGLE PROJECTION		
				DRAWN BY	DATE	TITLE 1.25 W/B WAFER ASSY EMBOSSD TAPE PACKAGE				
				T. UENO	'04/04/15					
		10 UNDER ±0.2		CHECKED BY	DATE					
	10 OVER 30 UNDER ±0.25		M. SASAO	'04/04/15						
	30 OVER ±0.3		APPROVED BY	DATE	MOLEX INCORPORATED					
		M. SASAO	'04/04/15							
REV	ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-53780-004				3 OF 3	
			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						