

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0537800270

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, 2 Circuits

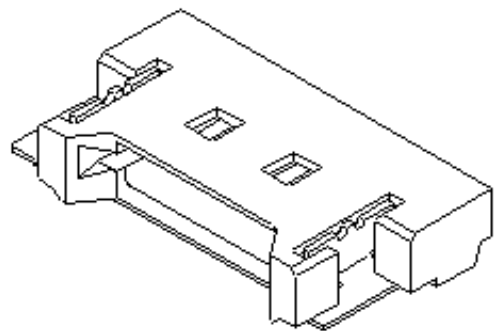


image - Reference only

Series

Documents:

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

Agency Certification

CSA	LR19980
UL	E29179

General

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

Physical

Breakaway	No
Circuits (Loaded)	2
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

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
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

Packaging Specification
Product Specification

Sales Drawing

SPK-53780-ET
PS-51146-010, PS-51146-012, RPS-51146-020,
RPS-51146-021, RPS-51146-022, RPS-51146-023,
RPS-51146-025, RPS-51146-026, RPS-51146-027,
RPS-51146-028, RPS-51146-029, RPS-51146-031
SD-53780-003, SD-53780-004

This document was generated on 06/07/2010

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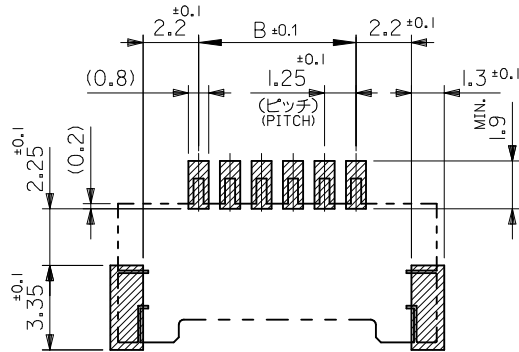
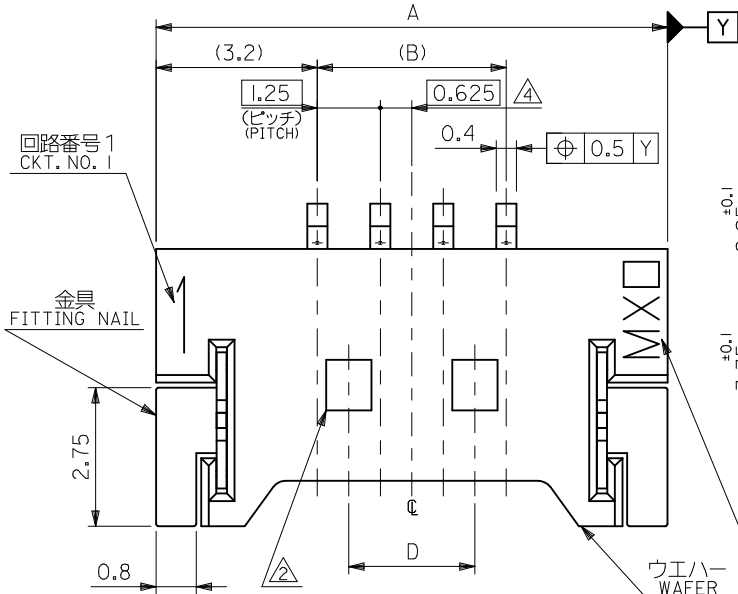
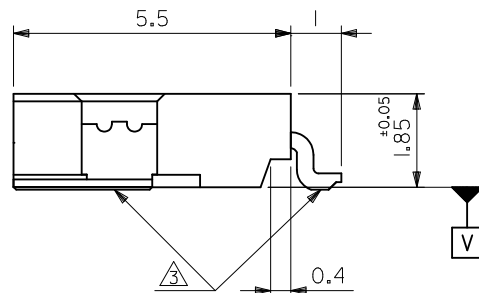
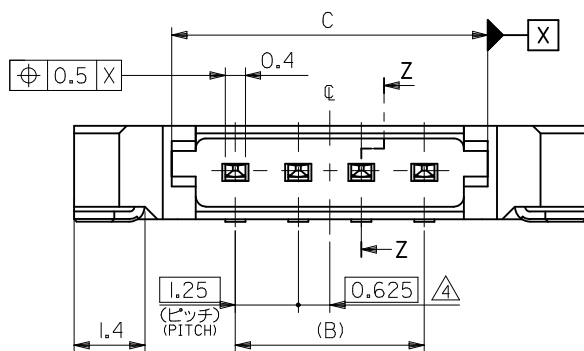
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注記 NOTES

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] からのソルダー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.

参考基板レイアウト
RECOMMENDED P.C.BOARD PATTERN DIM. (REF.)

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	EMBOSSED PACKAGE	CKT.
—					オーダー番号 ORDER No.	極数

CONNECTOR SERIES NO. 53780-**-19

REVISED EC NO: J2010-1927 DRWN: KUROSE CHKD: KASAKAWA APPR: NUKITA	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.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-53780-003			1 OF 2
REV		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

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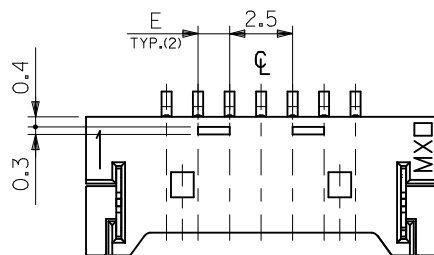
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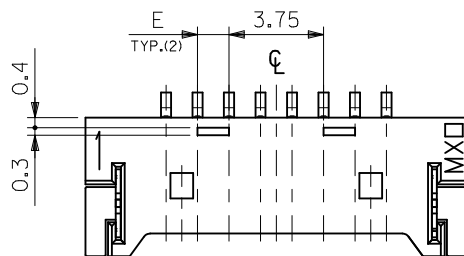
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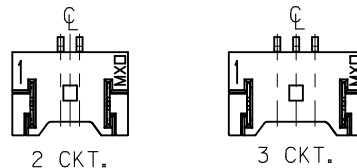
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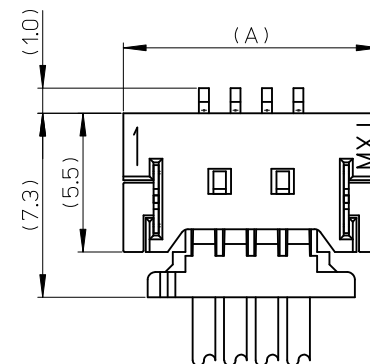
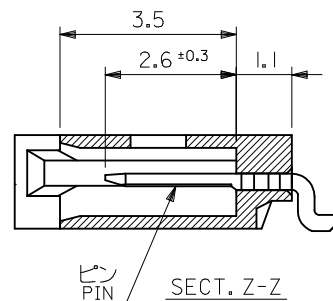
7~19極の奇数極に適用
APPLY FOR ODD CIRCUITS OF 7~19



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

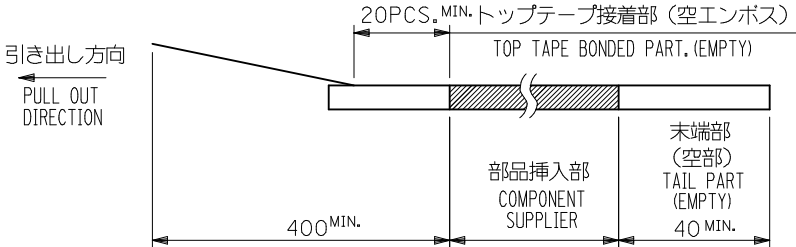


嵌合図 (SCALE 5:1)
MATED CONNECTORS (SCALE 5:1)

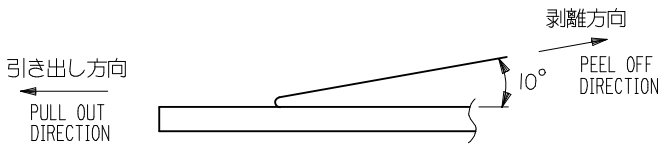
REVISED EC NO.: J2010-1927 DRWN:SKUROSE 2010/03/25 CHKD:KASAKAWA 2010/03/26 APPR:NUKITA 2010/03/29		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		CONNECTOR SERIES NO. 53780-**19	
		10 UNDER	± 0.2	DRAWN BY	DATE	SCALE ---	DESIGN UNITS METRIC
		10 OVER 30 UNDER	± 0.25	T. UENO	'04/04/15	TITLE 1.25 W/B CONN WAFER ASSY FOR SMT	
		30 OVER	± 0.3	CHECKED BY	DATE		
DESCRIPTION REV	REV	ANGULAR ± 3 °		APPROVED BY	DATE	MOLEX INCORPORATED	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		M. SASAO	'04/04/15		
		SIZE A3		SEE CHART		DOCUMENT NO. SD-53780-003	
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 2 OF 2	

NOTES

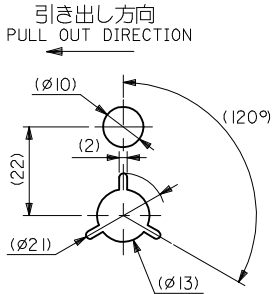
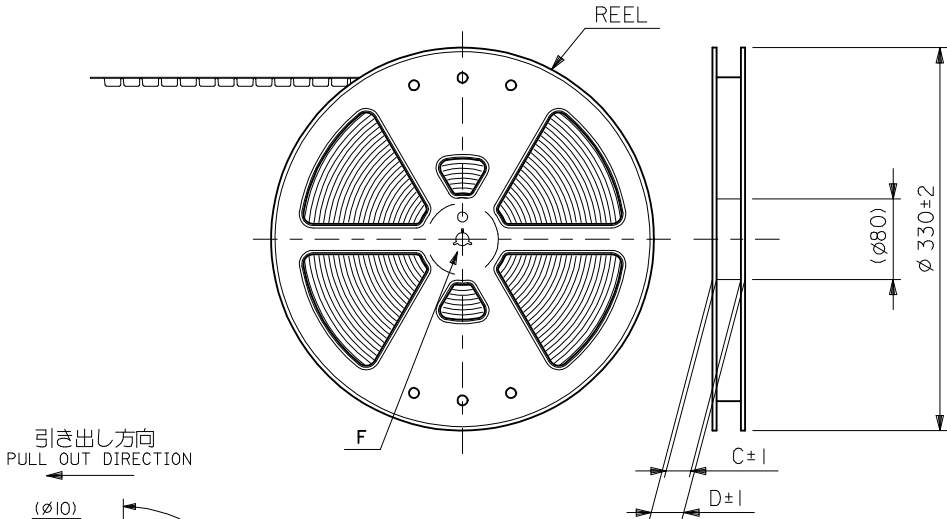
1. 梱包数量 : 1500個/リール
NUMBER OF CONNECTORS : 1500PCS/REEL
2. リードテープ長さ LEAD TAPE LENGTH



3. トップテープの剥離強度 : 0.1N ~ 1.3N (10gf ~ 130gf)
(剥離方向は下図参照)
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)
PEELING OFF FORCE OF TOP TAPE : 0.1N ~ 1.3N (10gf ~ 130gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.



4. 材料 (MATERIAL)
キャリアテープ (CARRIER TAPE) : ポリプロピレン (POLYPROPYLENE)
トップテープ (TOPTAPE) : PET , PE , PEF
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>
5. 本製品は 53780-**-90/-**-80 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 53780-**-90/-**-80.
6. ELV及びRoHS適合品
ELV & RoHS COMPLIANT



DETAIL F

REVISED EC NO: J2010-0021 DRWN: MTAKASAKI CHKD: MHAYASHI APPR: NUKITA	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 WAFER ASSY EMBOSSED TAPE PACKAGE			
		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 MOLEX INCORPORATED			
	ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-53780-004			1 OF 3	
	REV			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

F

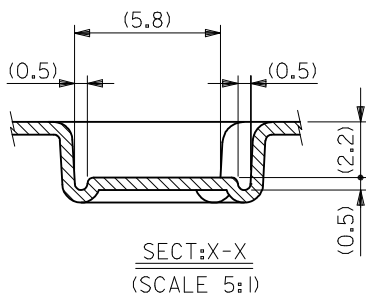
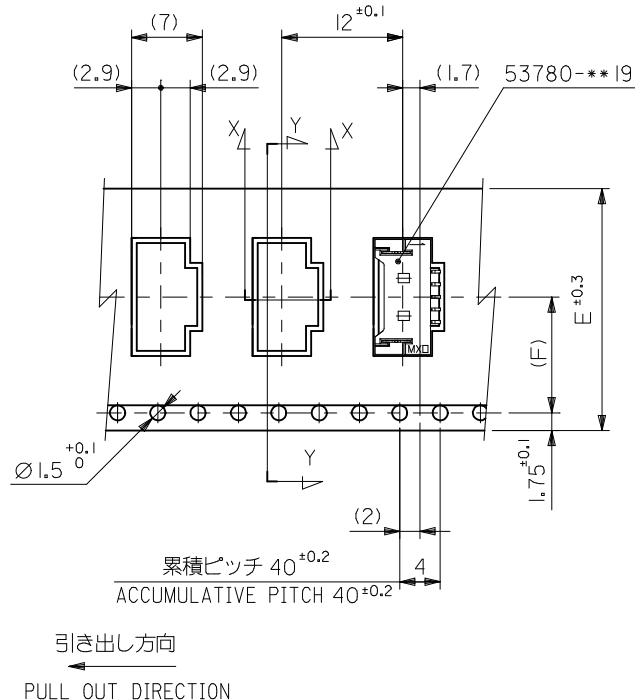
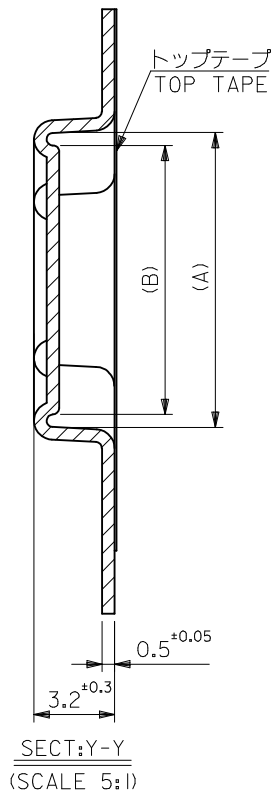
E

D

C

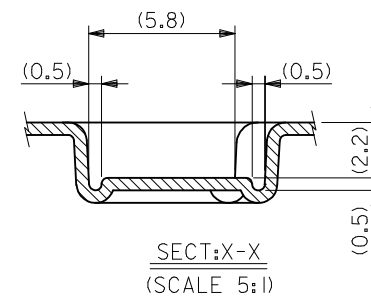
B

A



11.5	24	29.4	25.4	11.75	16.7	53780-0970	9
				10.5	15.45	53780-0870	8
				9.25	14.2	53780-0770	7
				8	12.95	53780-0670	6
				6.75	11.7	53780-0570	5
7.5	16	21.4	17.4	5.5	10.45	53780-0470	4
				4.25	9.2	53780-0370	3
(F)	E	D	C	3	7.95	53780-0270	2
キャリアテープ幅 CARRIER TAPE WIDTH				(B)	(A)	MATERIAL NO.	種数 CKT.
				MODEL NO.		53780-***70	

REVISED EC NO: J2010-0021 DRWN:MTAKASAKI CHKD:MHAYASHI APPR:NUKITA	DESCRIPTION 2009/07/07 2009/07/08 2009/07/08	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 WAFER ASSY EMBOSSD TAPE PACKAGE			
		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.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-53780-004		2 OF 3	
	REV B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



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.	極寸 CKT.

REVISED	EC NO. : J2010-0021	2009/07/07 DR.WATANAKASAKI	2009/07/08 CHKD.MIYASHI	2009/07/08 APPR.NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	WORLDWIDE DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION				
						10 UNDER	± 0.2	DRAWN BY T. UENO	DATE '04/04/15	TITLE 1.25 W/B WAFER ASSY EMBOSSD TAPE PACKAGE						
						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.				
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-53780-004		3 OF 3				
						REV	B	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			