

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0781271168

Status:

Active

Overview:

ffc_fpc_smt

Description:

0.50mm (.020") Pitch FFC/FPC Connector, SMT, Non ZIF, Vertical, Reverse, Gold Plating, 16 Circuits, Lead Free

Documents:

3D Model

Drawing (PDF)

Product Specification PS-78119-001 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

FFC/FPC Connectors

Series

78127

Overview

ffc_fpc_smt

Product Name

N/A

Physical

Circuits (Loaded)

16

Circuits (maximum)

16

Color - Resin

Natural

Contact Position

N/A

Durability (mating cycles max)

20

Entry Angle

Vertical

Flammability

94V-0

Mated Height (in)

0.161 In

Mated Height (mm)

4.10 mm

Material - Metal

Copper Alloy

Material - Plating Mating

Gold, Nickel

Number of Rows

1

Orientation

Vertical

PCB Locator

No

PCB Retention

None

Packaging Type

Embossed Tape on Reel

Pitch - Mating Interface (in)

0.020 In

Pitch - Mating Interface (mm)

0.50 mm

Pitch - Term. Interface (in)

0.020 In

Pitch - Term. Interface (mm)

0.50 mm

Polarized to PCB

No

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

Material Info

Reference - Drawing Numbers

Product Specification

PS-78119-001

Sales Drawing

SD-78127-001

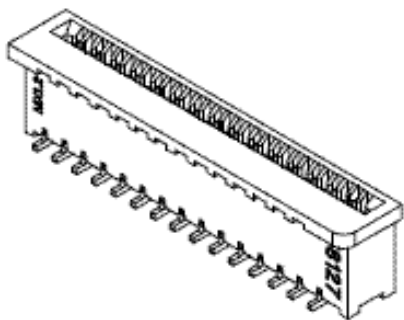


image - Reference only

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

78127Series

Mates With

Standard FFC/FPC Cables

This document was generated on 06/07/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

10 9 8 7 6 5 4 3 2 1

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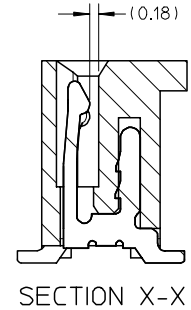
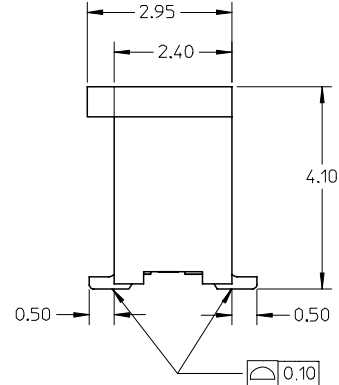
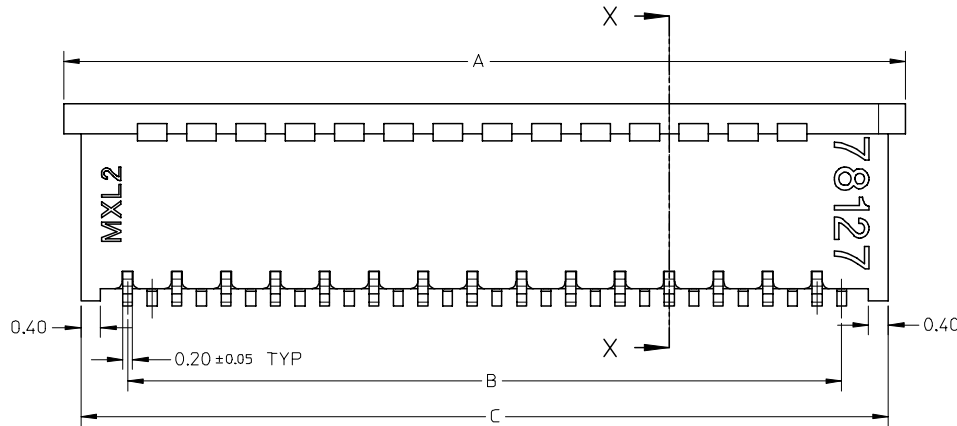
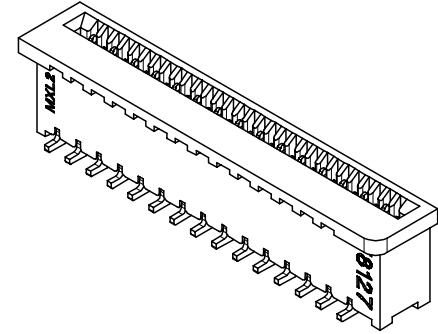
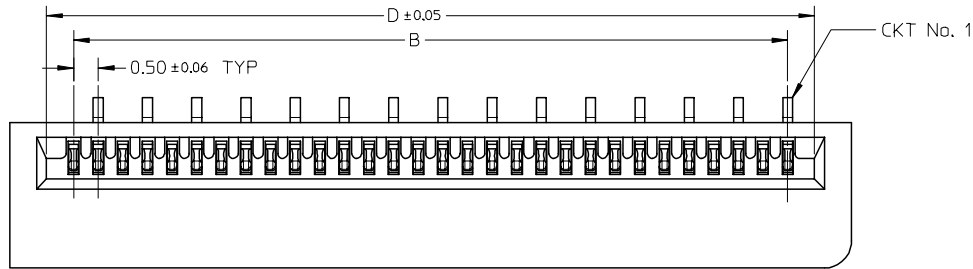
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B

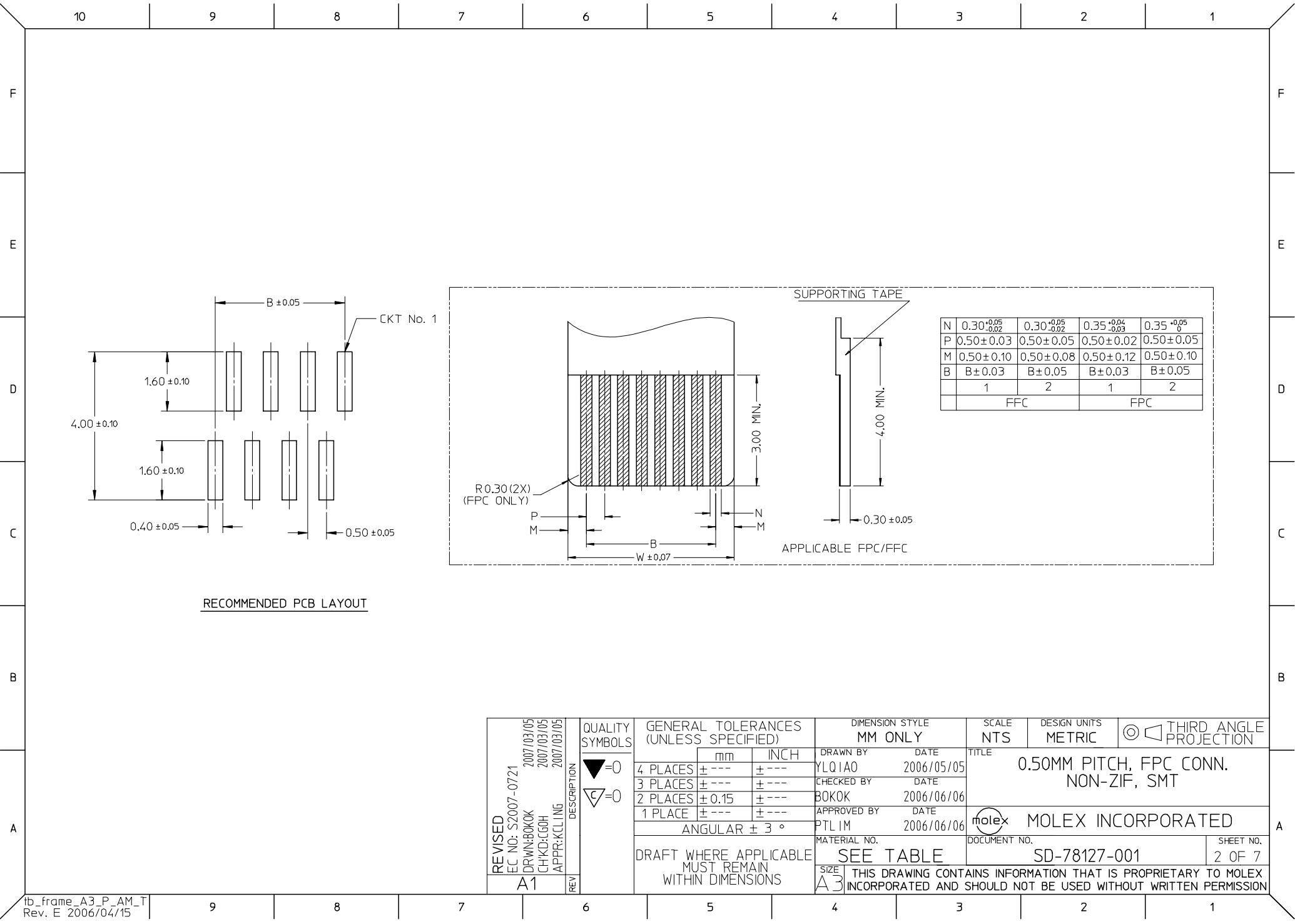
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ib_frame_A3_P_AM_T
Rev. E 2006/04/15



NOTE:
1. MATERIAL:
HOUSING: PA46 GLASS FILLED, UL94V-0, COLOR: NATURAL
TERMINAL: COPPER ALLOY
2. PLATING:
1) 0.10 μ m MIN. GOLD PLATING OVER NICKEL PLATING OVERALL
2) 1-3 μ m TIN-BISMUTH PLATING OVER NICKEL PLATING OVERALL
3. PRODUCT SPECIFICATION: PS-78119-001
4. PRODUCT ARE PACKED IN TAPE & REEL.

REVISED EC NO: S2007-0721 DRWN:BOKOK CHKD:CGOH APPR:KCLING A1	2007/03/05 2007/03/05 2007/03/05	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE TABLE		SD-78127-001		SHEET NO. 1 OF 7		
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



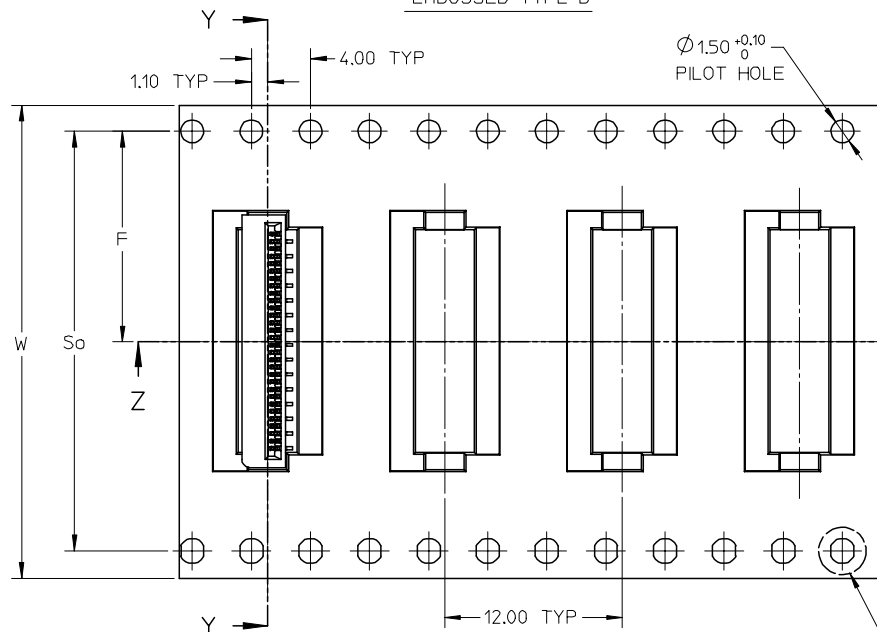
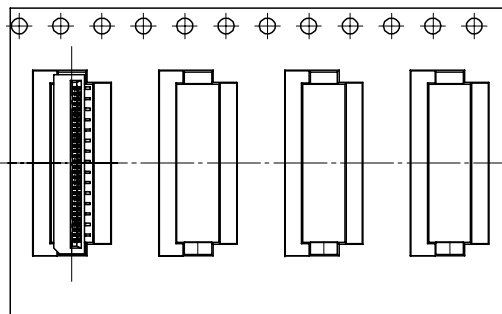
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					mm	INCH	DRAWN BY YLQIAO	DATE 2006/05/05	0.50MM PITCH, FPC CONN. NON-ZIF, SMT	
			4 PLACES	± ---	± ---	± ---	CHECKED BY BOKOK	DATE 2006/06/06		
			3 PLACES	± ---	± ---	± ---	APPROVED BY PTL IM	DATE 2006/06/06		
A1	REV		2 PLACES	± 0.15	± ---	± ---	MATERIAL NO.		moLEX MOLEX INCORPORATED	
			1 PLACE	± ---	± ---	± ---	DOCUMENT NO.		SD-78127-001	
			ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SHEET NO. 2 OF 7	
							THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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rowspan="25">1</td></tr><tr><td>78127-0078</td><td>7</td><td>5.60</td><td>3.00</td><td>4.90</td><td>4.10</td></tr><tr><td>78127-0088</td><td>8</td><td>6.10</td><td>3.50</td><td>5.40</td><td>4.60</td></tr><tr><td>78127-0098</td><td>9</td><td>6.60</td><td>4.00</td><td>5.90</td><td>5.10</td></tr><tr><td>78127-0108</td><td>10</td><td>7.10</td><td>4.50</td><td>6.40</td><td>5.60</td></tr><tr><td>78127-0118</td><td>11</td><td>7.60</td><td>5.00</td><td>6.90</td><td>6.10</td></tr><tr><td>78127-0128</td><td>12</td><td>8.10</td><td>5.50</td><td>7.40</td><td>6.60</td></tr><tr><td>78127-0138</td><td>13</td><td>8.60</td><td>6.00</td><td>7.90</td><td>7.10</td></tr><tr><td>78127-0148</td><td>14</td><td>9.10</td><td>6.50</td><td>8.40</td><td>7.60</td></tr><tr><td>78127-0158</td><td>15</td><td>9.60</td><td>7.00</td><td>8.90</td><td>8.10</td></tr><tr><td>78127-0168</td><td>16</td><td>10.10</td><td>7.50</td><td>9.40</td><td>8.60</td></tr><tr><td>78127-0178</td><td>17</td><td>10.60</td><td>8.00</td><td>9.90</td><td>9.10</td></tr><tr><td>78127-0188</td><td>18</td><td>11.10</td><td>8.50</td><td>10.40</td><td>9.60</td></tr><tr><td>78127-0198</td><td>19</td><td>11.60</td><td>9.00</td><td>10.90</td><td>10.10</td></tr><tr><td>78127-0208</td><td>20</td><td>12.10</td><td>9.50</td><td>11.40</td><td>10.60</td></tr><tr><td>78127-0218</td><td>21</td><td>12.60</td><td>10.00</td><td>11.90</td><td>11.10</td></tr><tr><td>78127-0228</td><td>22</td><td>13.10</td><td>10.50</td><td>12.40</td><td>11.60</td></tr><tr><td>78127-0238</td><td>23</td><td>13.60</td><td>11.00</td><td>12.90</td><td>12.10</td></tr><tr><td>78127-0248</td><td>24</td><td>14.10</td><td>11.50</td><td>13.40</td><td>12.60</td></tr><tr><td>78127-0258</td><td>25</td><td>14.60</td><td>12.00</td><td>13.90</td><td>13.10</td></tr><tr><td>78127-0268</td><td>26</td><td>15.10</td><td>12.50</td><td>14.40</td><td>13.60</td></tr><tr><td>78127-0278</td><td>27</td><td>15.60</td><td>13.00</td><td>14.90</td><td>14.10</td></tr><tr><td>78127-0288</td><td>28</td><td>16.10</td><td>13.50</td><td>15.40</td><td>14.60</td></tr><tr><td>78127-0298</td><td>29</td><td>16.60</td><td>14.00</td><td>15.90</td><td>15.10</td></tr><tr><td>78127-0308</td><td>30</td><td>17.10</td><td>14.50</td><td>16.40</td><td>15.60</td></tr></table>						ASSY 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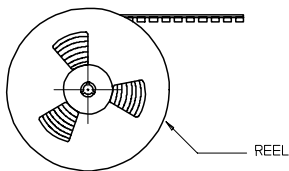
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EMBOSSED TYPE A

EMBOSSED TYPE B

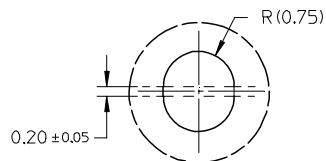


CUSTOMER
PULL OUT DIRECTION

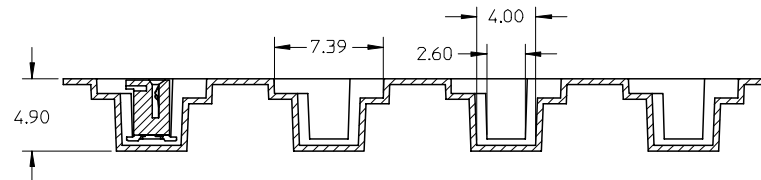


0.40

SECTION Y-Y



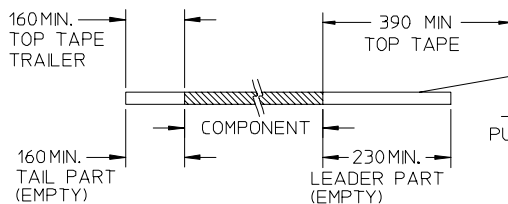
DETAIL 1



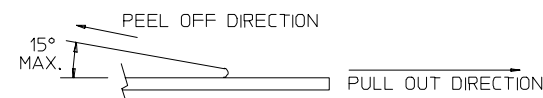
SECTION Z-Z

NOTES:

1. LEADER AND TRAILER TAPE



2. PEELING OFF FORCE OF THE TOP TAPE: 20-80gf. (PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



3. PACKAGING STANDARD IS AS PER EIA-481.

4. TAPE & REEL QUANTITY = 1000 PCS/REEL

REV	DESCRIPTION	DATE	BY	CHKD	APPD
REVISED	EC NO: S2007-0721	2007/03/05	DRWN:BOKOK	2007/03/05	CHKD:CGOH
A1	APPR:KCLING	2007/03/05			

QUALITY SYMBOLS	DESCRIPTION
▽=0	
▽=0	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
mm	INCH
4 PLACES ± ---	± ---
3 PLACES ± ---	± ---
2 PLACES ± 0.15	± ---
1 PLACE ± ---	± ---
ANGULAR ± 3 °	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
YLQIAO	2006/05/05
CHECKED BY	DATE
BOKOK	2006/06/06
APPROVED BY	DATE
PTL IM	2006/06/06
MATERIAL NO.	
SEE TABLE	
SIZE	A3

SCALE	NTS
DESIGN UNITS	METRIC
THIRD ANGLE PROJECTION	
TITLE	
0.50MM PITCH, FPC CONN. NON-ZIF, SMT	
MOLEX INCORPORATED	
DOCUMENT NO.	SD-78127-001
SHEET NO.	5 OF 7

GOLD PLATING TERMINAL ASSEMBLY PART NUMBERS

ASSY P/N PACKED IN T&R	ASSY P/N W/O PACKAGING	CKT	W	So	F	Bo	B	EMBOSSED TYPE
78127-1068	78127-0068	6	24.00	-	11.50	5.40	3.10	A
78127-1078	78127-0078	7	24.00	-	11.50	5.90	3.60	
78127-1088	78127-0088	8	24.00	-	11.50	6.40	4.10	
78127-1098	78127-0098	9	24.00	-	11.50	6.90	4.60	
78127-1108	78127-0108	10	24.00	-	11.50	7.40	5.10	
78127-1118	78127-0118	11	24.00	-	11.50	7.90	5.60	
78127-1128	78127-0128	12	24.00	-	11.50	8.40	6.10	
78127-1138	78127-0138	13	24.00	-	11.50	8.90	6.60	
78127-1148	78127-0148	14	24.00	-	11.50	9.40	7.10	
78127-1158	78127-0158	15	24.00	-	11.50	9.90	7.60	
78127-1168	78127-0168	16	24.00	-	11.50	10.40	8.10	
78127-1178	78127-0178	17	24.00	-	11.50	10.90	8.60	
78127-1188	78127-0188	18	24.00	-	11.50	11.40	9.10	B
78127-1198	78127-0198	19	24.00	-	11.50	11.90	9.60	
78127-1208	78127-0208	20	24.00	-	11.50	12.40	10.10	
78127-1218	78127-0218	21	32.00	28.40	14.20	12.90	10.60	
78127-1228	78127-0228	22	32.00	28.40	14.20	13.40	11.10	
78127-1238	78127-0238	23	32.00	28.40	14.20	13.90	11.60	
78127-1248	78127-0248	24	32.00	28.40	14.20	14.40	12.10	
78127-1258	78127-0258	25	32.00	28.40	14.20	14.90	12.60	
78127-1268	78127-0268	26	32.00	28.40	14.20	15.40	13.10	
78127-1278	78127-0278	27	32.00	28.40	14.20	15.90	13.60	
78127-1288	78127-0288	28	32.00	28.40	14.20	16.40	14.10	
78127-1298	78127-0298	29	32.00	28.40	14.20	16.90	14.60	
78127-1308	78127-0308	30	32.00	28.40	14.20	17.40	15.10	

ASSY P/N PACKED IN T&R	ASSY P/N W/O PACKAGING	CKT	W	So	F	Bo	B	EMBOSSED TYPE
78127-1318	78127-0318	31	32.00	28.40	14.20	17.90	15.60	B
78127-1328	78127-0328	32	32.00	28.40	14.20	18.40	16.10	
78127-1338	78127-0338	33	32.00	28.40	14.20	18.90	16.60	
78127-348	78127-0348	34	32.00	28.40	14.20	19.40	17.10	
78127-1358	78127-0358	35	32.00	28.40	14.20	19.90	17.60	
78127-1368	78127-0368	36	32.00	28.40	14.20	20.40	18.10	
78127-1378	78127-0378	37	32.00	28.40	14.20	20.90	18.60	
78127-1388	78127-0388	38	32.00	28.40	14.20	21.40	19.10	
78127-1398	78127-0398	39	44.00	40.40	20.20	21.90	19.60	
78127-1408	78127-0408	40	44.00	40.40	20.20	22.40	20.10	
78127-1418	78127-0418	41	44.00	40.40	20.20	22.90	20.60	
78127-1428	78127-0428	42	44.00	40.40	20.20	23.40	21.10	

REVISED	EC NO: S2007-0721	2007/03/05	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																											
	DRW#BOKOK	2007/03/05				MM ONLY		NTS	METRIC																												
	CHK'D:GGH	2007/03/05																																			
	APPR:KCLING	2007/03/05																																			
A1	REV			▽=0 ▽=0	<table><thead><tr><th></th><th>mm</th><th>INCH</th></tr></thead><tbody><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± 0.15</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr></tbody></table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.15	± ---	1 PLACE	± ---	± ---	<table><tbody><tr><td>DRAWN BY</td><td>DATE</td></tr><tr><td>YLQIAO</td><td>2006/05/05</td></tr><tr><td>CHECKED BY</td><td>DATE</td></tr><tr><td>BOKOK</td><td>2006/06/06</td></tr><tr><td>APPROVED BY</td><td>DATE</td></tr><tr><td>PTLIM</td><td>2006/06/06</td></tr></tbody></table>	DRAWN BY	DATE	YLQIAO	2006/05/05	CHECKED BY	DATE	BOKOK	2006/06/06	APPROVED BY	DATE	PTLIM	2006/06/06	TITLE		0.50MM PITCH, FPC CONN. NON-ZIF, SMT	
			mm	INCH																																	
		4 PLACES	± ---	± ---																																	
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						MATERIAL NO.		DOCUMENT NO.		SHEET NO.																											
						SEE TABLE		SD-78127-001		6 OF 7																											
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																													
								MOLEX MOLEX INCORPORATED																													

	10	9	8	7	6	5	4	3	2	1												
F	TIN-BISMUTH PLATING TERMINAL ASSEMBLY PART NUMBERS										F											
E	ASSY P/N PACKED IN T&R	ASSY P/N W/O PACKAGING	CKT	W	So	F	Bo	B	EMBOSSED TYPE	ASSY P/N PACKED IN T&R	ASSY P/N W/O PACKAGING	CKT	W	So	F	Bo	B	EMBOSSED TYPE	B			
	78127-1069	78127-0069	6	24.00	-	11.50	5.40	3.10	A	78127-1319	78127-0319	31	32.00	28.40	14.20	17.90	15.60					
	78127-1079	78127-0079	7	24.00	-	11.50	5.90	3.60		78127-1329	78127-0329	32	32.00	28.40	14.20	18.40	16.10					
	78127-1089	78127-0089	8	24.00	-	11.50	6.40	4.10		78127-1339	78127-0339	33	32.00	28.40	14.20	18.90	16.60					
	78127-1099	78127-0099	9	24.00	-	11.50	6.90	4.60		78127-1349	78127-0349	34	32.00	28.40	14.20	19.40	17.10					
	78127-1109	78127-0109	10	24.00	-	11.50	7.40	5.10		78127-1359	78127-0359	35	32.00	28.40	14.20	19.90	17.60					
	78127-1119	78127-0119	11	24.00	-	11.50	7.90	5.60		78127-1369	78127-0369	36	32.00	28.40	14.20	20.40	18.10					
	78127-1129	78127-0129	12	24.00	-	11.50	8.40	6.10		78127-1379	78127-0379	37	32.00	28.40	14.20	20.90	18.60					
	78127-1139	78127-0139	13	24.00	-	11.50	8.90	6.60		78127-1389	78127-0389	38	32.00	28.40	14.20	21.40	19.10					
	78127-1149	78127-0149	14	24.00	-	11.50	9.40	7.10		78127-1399	78127-0399	39	44.00	40.40	20.20	21.90	19.60					
78127-1159	78127-0159	15	24.00	-	11.50	9.90	7.60	78127-1409		78127-0409	40	44.00	40.40	20.20	22.40	20.10						
D	78127-1169	78127-0169	16	24.00	-	11.50	10.40	8.10		78127-1419	78127-0419	41	44.00	40.40	20.20	22.90	20.60					
	78127-1179	78127-0179	17	24.00	-	11.50	10.90	8.60		78127-1429	78127-0429	42	44.00	40.40	20.20	23.40	21.10					
	78127-1189	78127-0189	18	24.00	-	11.50	11.40	9.10														
	78127-1199	78127-0199	19	24.00	-	11.50	11.90	9.60														
	78127-1209	78127-0209	20	24.00	-	11.50	12.40	10.10														
C	78127-1219	78127-0219	21	32.00	28.40	14.20	12.90	10.60	B													
	78127-1229	78127-0229	22	32.00	28.40	14.20	13.40	11.10														
	78127-1239	78127-0239	23	32.00	28.40	14.20	13.90	11.60														
	78127-1249	78127-0249	24	32.00	28.40	14.20	14.40	12.10														
	78127-1259	78127-0259	25	32.00	28.40	14.20	14.90	12.60														
	78127-1269	78127-0269	26	32.00	28.40	14.20	15.40	13.10														
	78127-1279	78127-0279	27	32.00	28.40	14.20	15.90	13.60														
	78127-1289	78127-0289	28	32.00	28.40	14.20	16.40	14.10														
	78127-1299	78127-0299	29	32.00	28.40	14.20	16.90	14.60														
	78127-1309	78127-0309	30	32.00	28.40	14.20	17.40	15.10														
B																					B	
A																					A	

REVISED
EC NO: S2007-0721
DRWN:BOKOK
CHKD:CGH
APPR:KCLING

2007/03/05
2007/03/05
2007/03/05

DESCRIPTION
A1

QUALITY SYMBOLS
▽=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.15	± ---
1 PLACE	± ---	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
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SCALE
NTS
DESIGN UNITS
METRIC
THIRD ANGLE
PROJECTION
0.50MM PITCH, FPC CONN.
NON-ZIF, SMT
MOLEX INCORPORATED
SD-78127-001
SHEET NO.
7 OF 7

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