

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0781271338](#)
Status: **Active**
Overview: [ffc_fpc_smt](#)
Description: 0.50mm (.020") Pitch FFC/FPC Connector, SMT, Non ZIF, Vertical, Reverse, Gold Plating, 33 Circuits, Lead Free

Documents:

[3D Model](#) [Product Specification PS-78119-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [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) 33
Circuits (maximum) 33
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

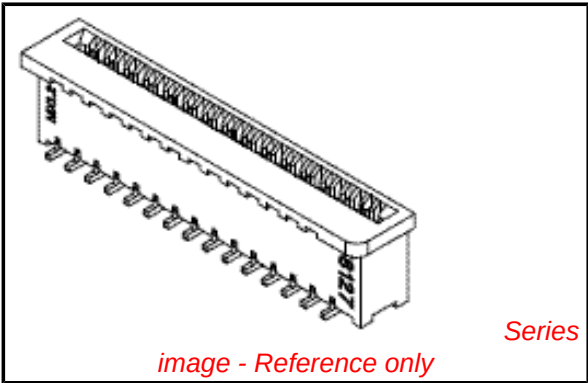
Electrical

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



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

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

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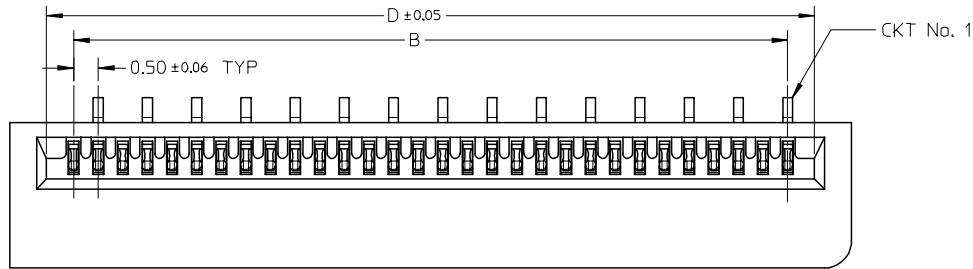
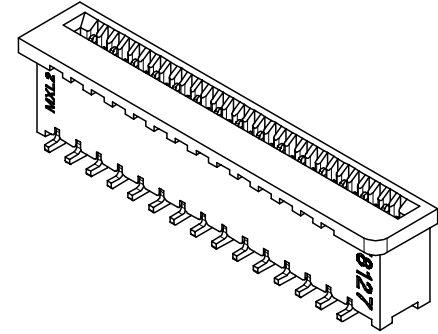
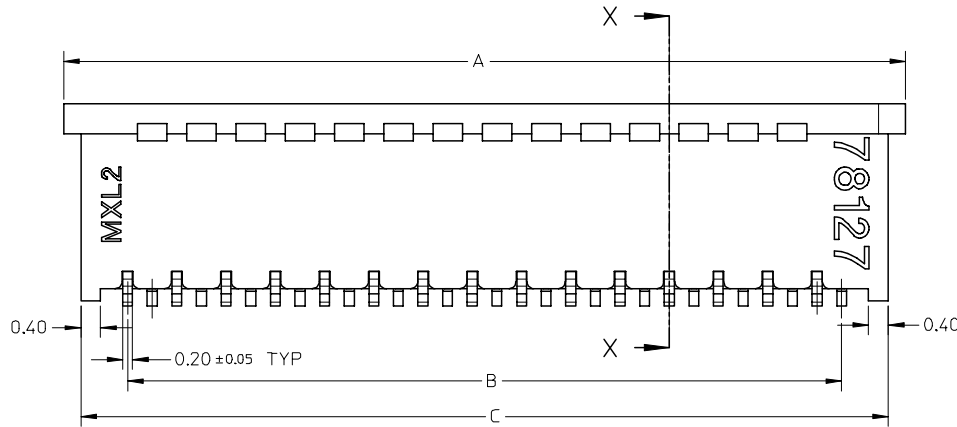
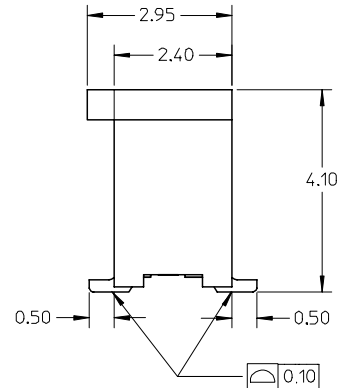
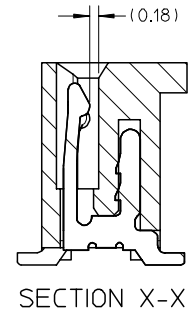
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D

C

B

A



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	2007/03/05	2007/03/05
DRWN: BOKOK	CHKD: CGOH	2007/03/05	2007/03/05
APPR: KCLING			
A1			

QUALITY SYMBOLS
$\nabla=0$
$\nabla=0$

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
YLQ1A0	2006/05/05
CHECKED BY	DATE
BOKOK	2006/06/06
APPROVED BY	DATE
PTL IM	2006/06/06
MATERIAL NO.	
SEE TABLE	
SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
A3	INCORPORATED AND

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
NTS	METRIC	
0.50MM PITCH, FPC CONN. NON-ZIF, SMT		
MOLEX INCORPORATED		
DOCUMENT NO. SD-78127-001	SHEET NO. 1 OF 7	

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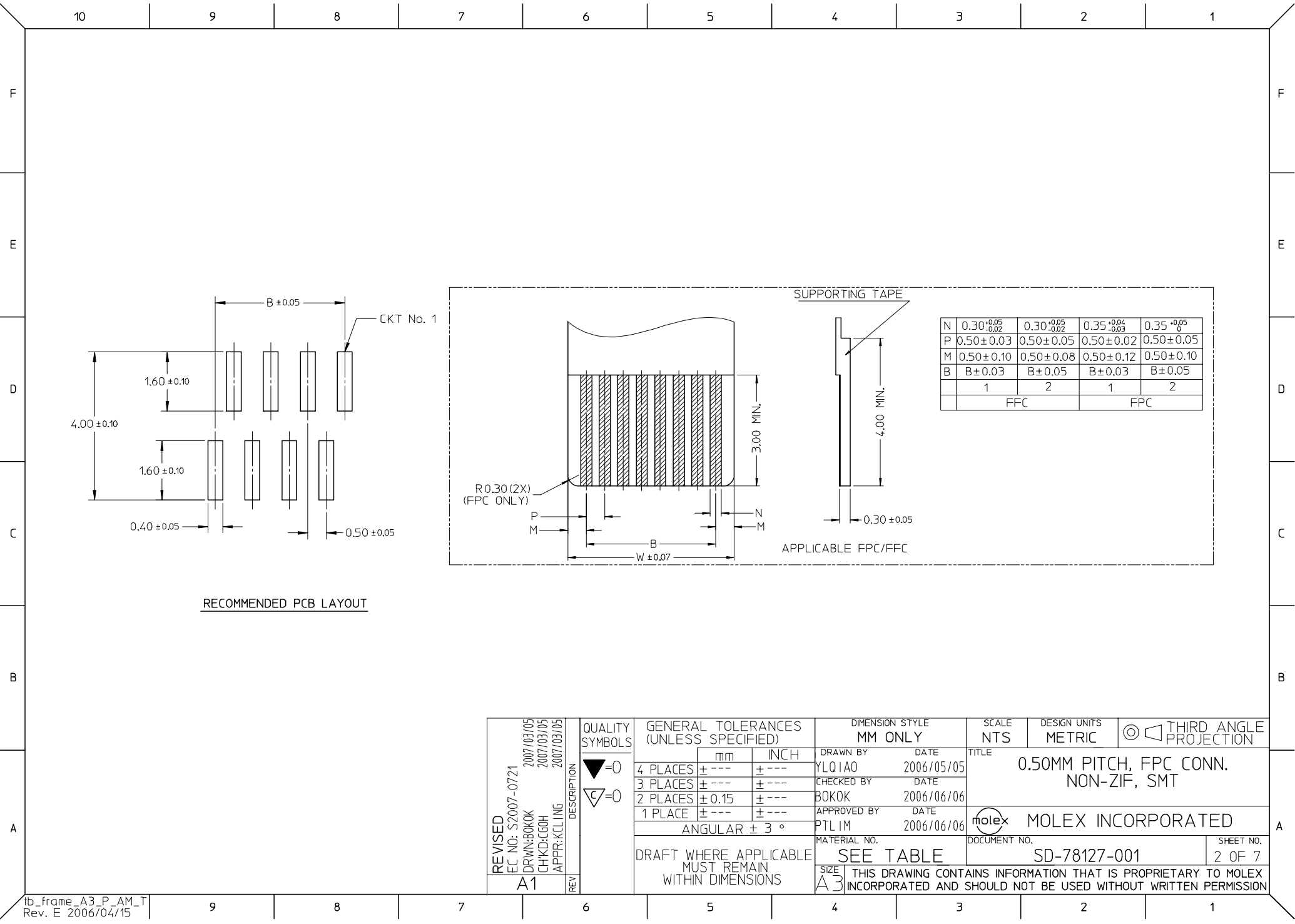
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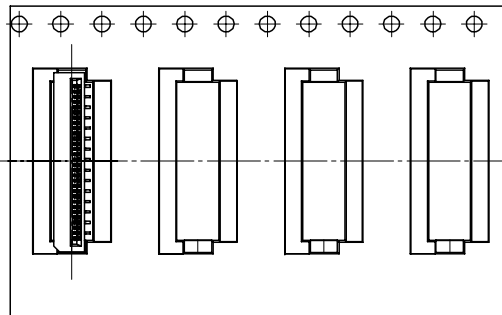


REVISED EC NO: S2007-0721 DRWN: BOKOK CHKD: CGOH APPR: KCLING	DESCRIPTION 2007/03/05 2007/03/05 2007/03/05	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY YLQIAO	DATE 2006/05/05	0.50MM PITCH, 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	± ---	± ---	MOLEX INCORPORATED			
			1 PLACE	± ---	± ---	± ---	SD-78127-001			
			ANGULAR ± 3 °		SEE TABLE		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		2 OF 7	

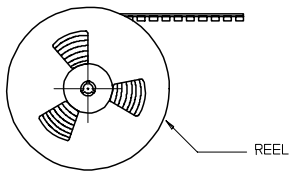
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F	GOLD PLATING TERMINAL ASSEMBLY PART NUMBERS										F																																																																																																																																																																																																																																																				
E	<table><tr><th>ASSY P/N W/O PACKAGING</th><th>CKT</th><th>DIM A</th><th>DIM B</th><th>DIM C</th><th>DIM D</th><th>PLATING TYPE</th></tr><tr><td>78127-0068</td><td>6</td><td>5.10</td><td>2.50</td><td>4.40</td><td>3.60</td><td 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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78127-0328	32	18.10	15.50	17.40	16.60																																																																																																																																																																																																																																																										
78127-0338	33	18.60	16.00	17.90	17.10																																																																																																																																																																																																																																																										
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78127-0358	35	19.60	17.00	18.90	18.10																																																																																																																																																																																																																																																										
78127-0368	36	20.10	17.50	19.40	18.60																																																																																																																																																																																																																																																										
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A	<table><tr><td rowspan="4">REVISED EC NO: S2007-0721 DRWN:BOKOK CHKD:CGOH APPR:KCLING A1</td><td rowspan="4">DESCRIPTION 2007/03/05 2007/03/05 2007/03/05</td><td rowspan="4">QUALITY SYMBOLS ▽=0 ▽=0</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE MM ONLY</td><td>SCALE</td><td>DESIGN UNITS</td><td>THIRD ANGLE PROJECTION</td></tr><tr><td></td><td>mm</td><td>INCH</td><td>DRAWN BY</td><td>DATE</td><td>TITLE</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td><td>YLQ1A0</td><td>2006/05/05</td><td rowspan="2">0.50MM PITCH, FPC CONN. NON-ZIF, SMT</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td><td>CHECKED BY</td><td>DATE</td></tr><tr><td>2 PLACES</td><td>± 0.15</td><td>± ---</td><td>BOKOK</td><td>2006/06/06</td><td rowspan="2">MOLEX INCORPORATED</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td><td>APPROVED BY</td><td>DATE</td></tr><tr><td colspan="3">ANGULAR ± 3 °</td><td>PTL IM</td><td>2006/06/06</td><td rowspan="3">SD-78127-001</td></tr><tr><td colspan="3">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">MATERIAL NO.</td><td>DOCUMENT NO.</td></tr><tr><td colspan="3"></td><td>SIZE A3</td><td colspan="2">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table>										REVISED EC NO: S2007-0721 DRWN:BOKOK CHKD:CGOH APPR:KCLING A1	DESCRIPTION 2007/03/05 2007/03/05 2007/03/05	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		mm	INCH	DRAWN BY	DATE	TITLE	4 PLACES	± ---	± ---	YLQ1A0	2006/05/05	0.50MM PITCH, FPC CONN. NON-ZIF, SMT	3 PLACES	± ---	± ---	CHECKED BY	DATE	2 PLACES	± 0.15	± ---	BOKOK	2006/06/06	MOLEX INCORPORATED	1 PLACE	± ---	± ---	APPROVED BY	DATE	ANGULAR ± 3 °			PTL IM	2006/06/06	SD-78127-001	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								A																																																																																																																																																																																						
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EMBOSSED TYPE A

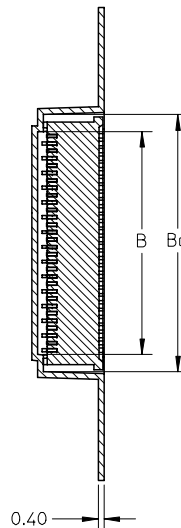
EMBOSSED TYPE B



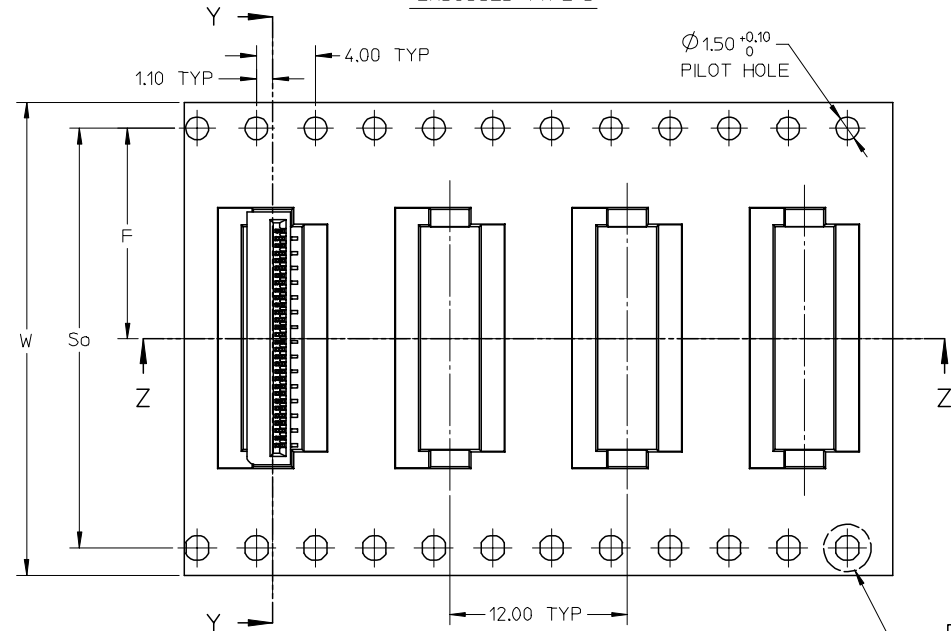
CUSTOMER
PULL OUT DIRECTION



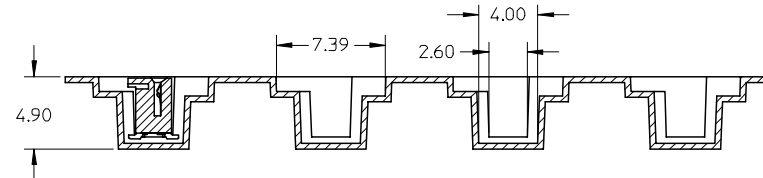
REEL



SECTION Y-Y



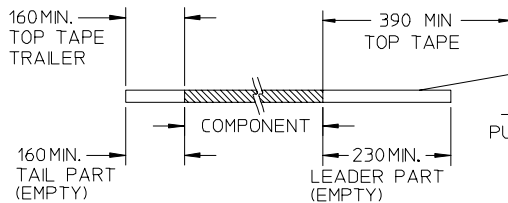
DETAIL 1



SECTION Z-Z

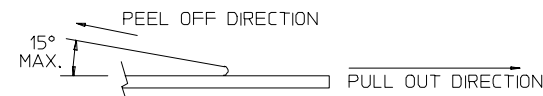
NOTES:

1. LEADER AND TRAILER TAPE



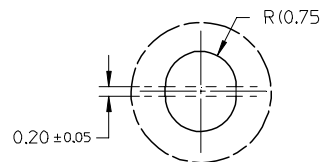
PULL OUT DIRECTION

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



DETAIL 1

REVISED	EC NO: S2007-0721	2007/03/05	2007/03/05	2007/03/05
DRWN: BOKOK	CHKD: CGOH	APPR: KCLING		
A1				

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
YLQ1A0	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	DESIGN UNITS	THIRD ANGLE PROJECTION
NTS	METRIC	
TITLE		
0.50MM PITCH, FPC CONN. NON-ZIF, SMT		
MOLEX INCORPORATED		
DOCUMENT NO.		SHEET NO.
SD-78127-001		5 OF 7

	10	9	8	7	6	5	4	3	2	1										
F	GOLD 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	E	
	78127-1068	78127-0068	6	24.00	-	11.50	5.40	3.10	A	78127-1318	78127-0318	31	32.00	28.40	14.20	17.90	15.60	B		
	78127-1078	78127-0078	7	24.00	-	11.50	5.90	3.60		78127-1328	78127-0328	32	32.00	28.40	14.20	18.40	16.10			
	78127-1088	78127-0088	8	24.00	-	11.50	6.40	4.10		78127-1338	78127-0338	33	32.00	28.40	14.20	18.90	16.60			
	78127-1098	78127-0098	9	24.00	-	11.50	6.90	4.60		78127-1348	78127-0348	34	32.00	28.40	14.20	19.40	17.10			
	78127-1108	78127-0108	10	24.00	-	11.50	7.40	5.10		78127-1358	78127-0358	35	32.00	28.40	14.20	19.90	17.60			
	78127-1118	78127-0118	11	24.00	-	11.50	7.90	5.60		78127-1368	78127-0368	36	32.00	28.40	14.20	20.40	18.10			
	78127-1128	78127-0128	12	24.00	-	11.50	8.40	6.10		78127-1378	78127-0378	37	32.00	28.40	14.20	20.90	18.60			
	78127-1138	78127-0138	13	24.00	-	11.50	8.90	6.60		78127-1388	78127-0388	38	32.00	28.40	14.20	21.40	19.10			
	78127-1148	78127-0148	14	24.00	-	11.50	9.40	7.10		78127-1398	78127-0398	39	44.00	40.40	20.20	21.90	19.60			
D	78127-1158	78127-0158	15	24.00	-	11.50	9.90	7.60		B	78127-1408	78127-0408	40	44.00	40.40	20.20	22.40		20.10	D
	78127-1168	78127-0168	16	24.00	-	11.50	10.40	8.10	78127-1418		78127-0418	41	44.00	40.40	20.20	22.90	20.60			
	78127-1178	78127-0178	17	24.00	-	11.50	10.90	8.60	78127-1428		78127-0428	42	44.00	40.40	20.20	23.40	21.10			
	78127-1188	78127-0188	18	24.00	-	11.50	11.40	9.10												
	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												
C	78127-1258	78127-0258	25	32.00	28.40	14.20	14.90	12.60	B											
	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												
B																			B	
A																				
	10	9	8	7	6	5	4	3	2	1										

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

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

DESCRIPTION
REV

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
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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE
NTS

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

0.50MM PITCH, FPC CONN.
NON-ZIF, SMT

MOLEX

MOLEX INCORPORATED

DOCUMENT NO.
SD-78127-001

SHEET NO.
6 OF 7

ib_frame_A3_P_AM_T
Rev. E 2006/04/15

	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	B	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