

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0781271068
Status: Active
Overview: ffc_fpc_smt
Description: 0.50mm (.020") Pitch FFC/FPC Connector, SMT, Non ZIF, Vertical, Reverse, Gold Plating, 6 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) 6
Circuits (maximum) 6
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

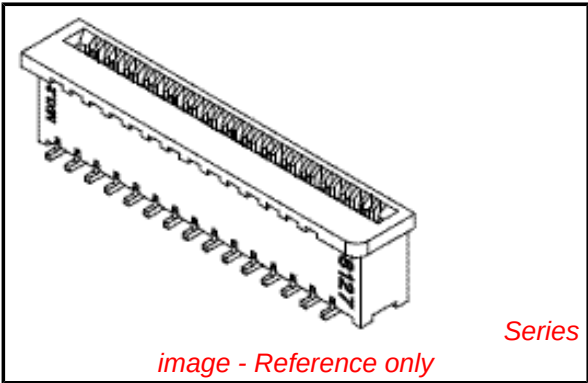
Electrical

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 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

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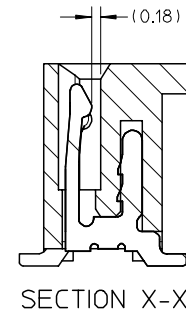
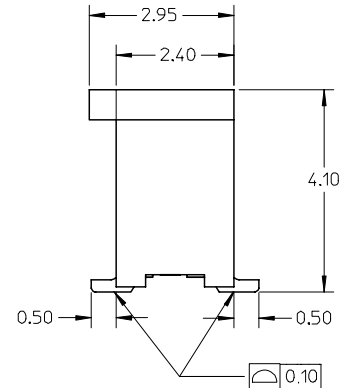
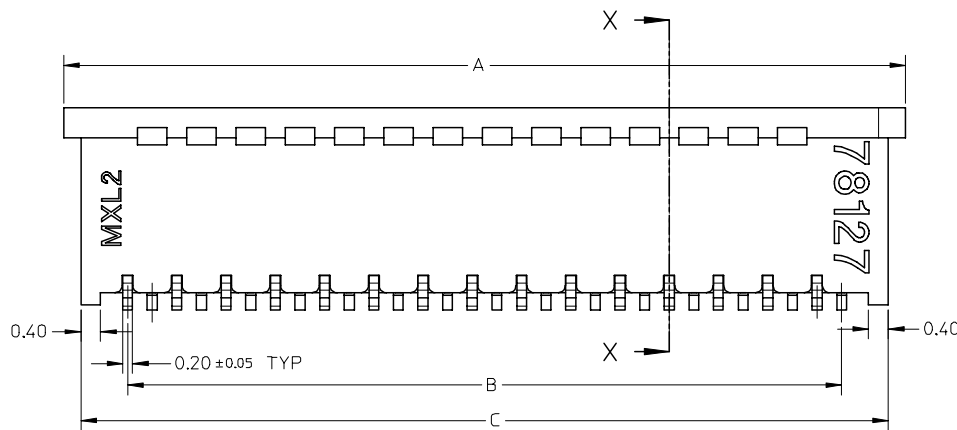
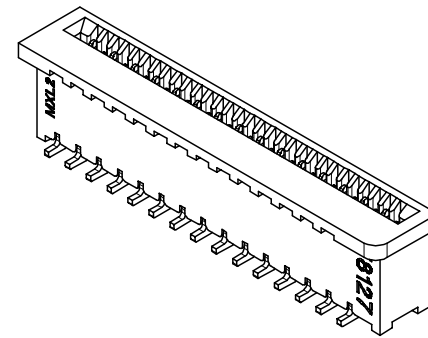
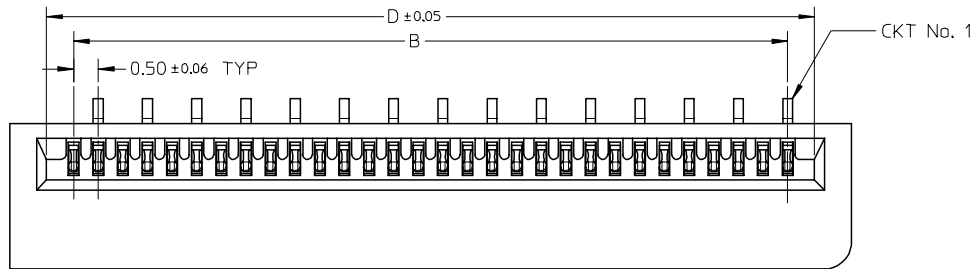
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B

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
4 PLACES	± 0.15
3 PLACES	± 0.15
2 PLACES	± 0.15
1 PLACE	± 0.15
ANGULAR $\pm 3^\circ$	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
YLG1A0	2006/05/05
CHECKED BY	DATE
BOKOK	2006/06/06
APPROVED BY	DATE
PTL IM	2006/06/06
MATERIAL NO.	
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		1 OF 7

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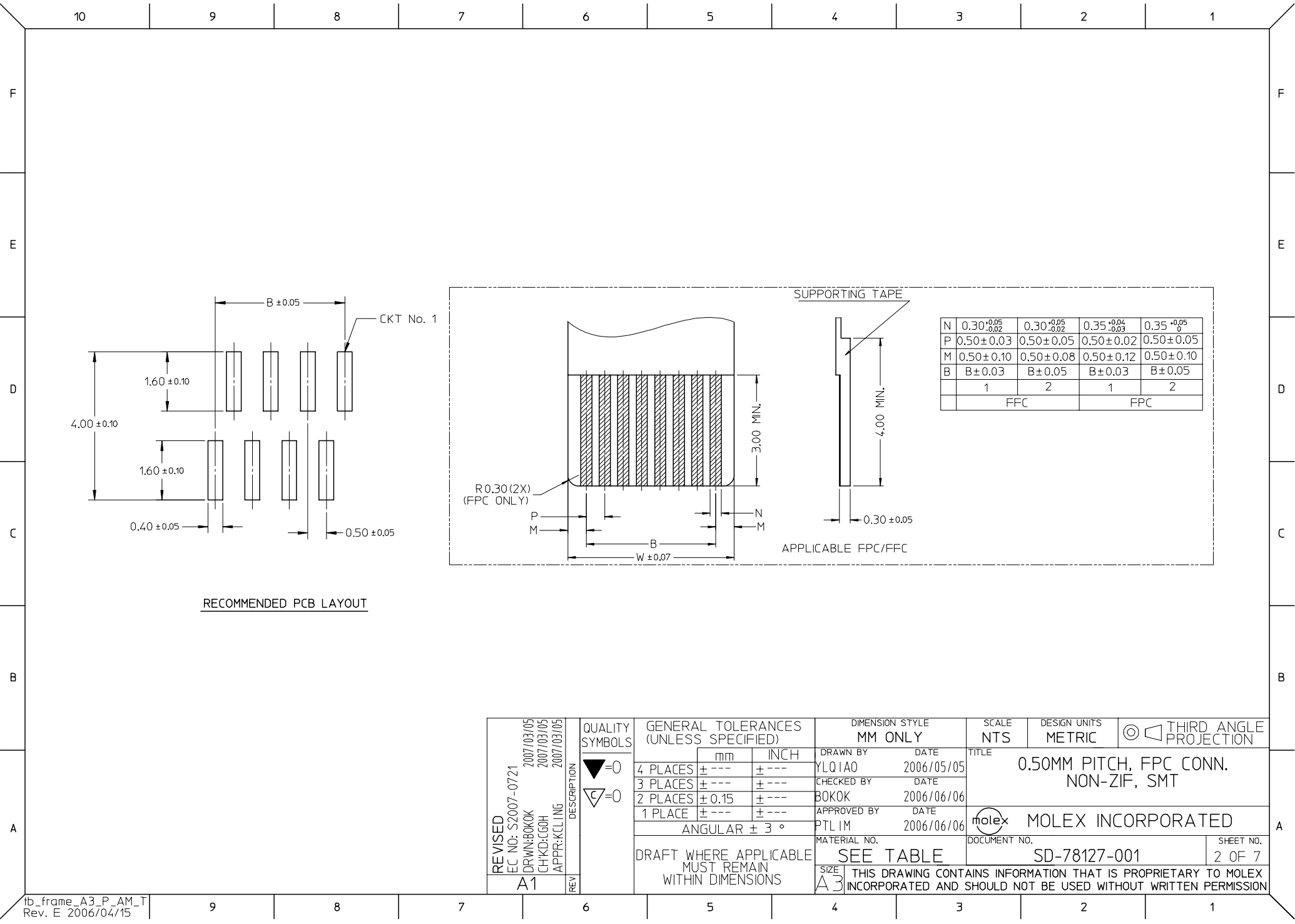
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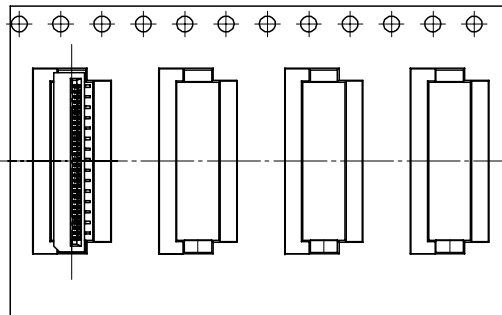


REVISED EC NO: S2007-0721 DRWN: BOKOK CHKD: CGOH APPR: KCLING	DESCRIPTION 2007/03/05 2007/03/05 2007/03/05	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY YLQIAO	DATE 2006/05/05	0.50MM PITCH, 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	± ---	± ---	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			

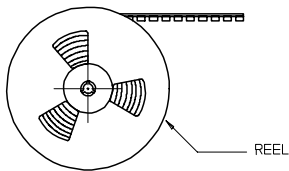
	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																																																																																																	
F	GOLD PLATING TERMINAL ASSEMBLY PART NUMBERS										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="30">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																																																																																																																																																																																																																																																						
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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																																																																																																																																																																																																																																																						
78127-0378	37	20.60	18.00	19.90	19.10																																																																																																																																																																																																																																																						
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A	<table><tr><td rowspan="10">REVISED EC NO: S2007-0721 DRWN:BOKOK CHKD:CGOH APPR:KCLING A1</td><td rowspan="10">DESCRIPTION</td><td rowspan="10">QUALITY SYMBOLS</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE MM ONLY</td><td>SCALE NTS</td><td>DESIGN UNITS METRIC</td><td rowspan="10">THIRD ANGLE PROJECTION</td></tr><tr><td></td><td>mm</td><td>INCH</td><td>DRAWN BY YLQ1A0</td><td>DATE 2006/05/05</td><td rowspan="4">TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td><td>CHECKED BY BOKOK</td><td>DATE 2006/06/06</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td><td>APPROVED BY PTL IM</td><td>DATE 2006/06/06</td></tr><tr><td>2 PLACES</td><td>± 0.15</td><td>± ---</td><td>MATERIAL NO.</td><td>DOCUMENT NO.</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td><td colspan="2">ANGULAR ± 3 °</td><td colspan="2">SEE TABLE</td><td colspan="2">SD-78127-001</td><td>SHEET NO. 3 OF 7</td></tr><tr><td colspan="5">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="5">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	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		mm	INCH	DRAWN BY YLQ1A0	DATE 2006/05/05	TITLE 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	2 PLACES	± 0.15	± ---	MATERIAL NO.	DOCUMENT NO.	1 PLACE	± ---	± ---	ANGULAR ± 3 °		SEE TABLE		SD-78127-001		SHEET NO. 3 OF 7	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					A																																																																																																																																																																																													
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				10	9	8	7	6		5				4	3	2	1																																																																																																																																																																																																																																										

EMBOSSED TYPE A

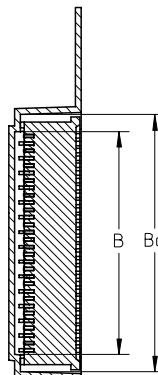
EMBOSSED TYPE B



CUSTOMER
PULL OUT DIRECTION

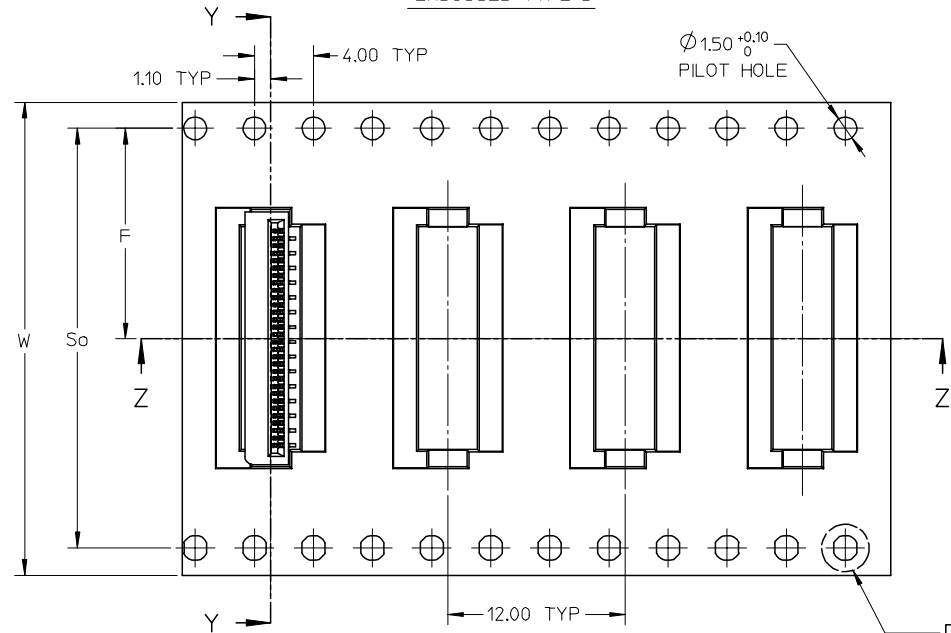


REEL

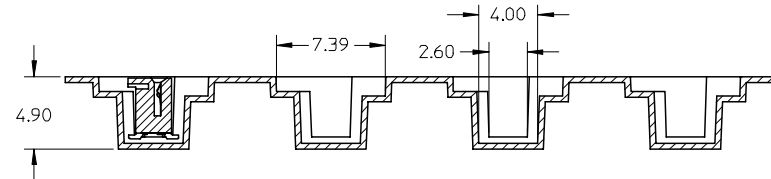


0.40

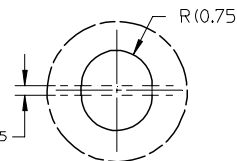
SECTION Y-Y



DETAIL 1



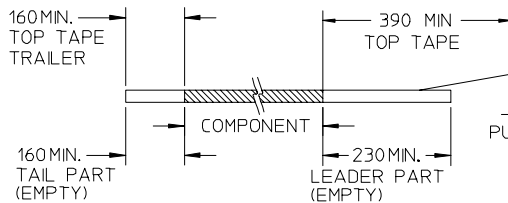
SECTION Z-Z



DETAIL 1

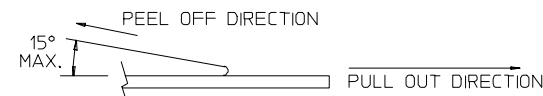
NOTES:

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

REV	DESCRIPTION	DATE	BY
REVISED	EC NO: S2007-0721	2007/03/05	DRWN:80K0K
	CHKD:CGOH	2007/03/05	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	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

	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				
78127-1158	78127-0158	15	24.00	-	11.50	9.90	7.60	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	B	78127-1418	78127-0418	41	44.00	40.40	20.20	22.90	20.60		D		
	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													
	78127-1258	78127-0258	25	32.00	28.40	14.20	14.90	12.60													
C	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											
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	D			
	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										C		
	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 2007/03/05 DRWN:BOKOK CHKD:CGOH 2007/03/05 APPR:KCLING 2007/03/05 REV DESCRIPTION										QUALITY SYMBOLS ▽=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 PTLIM 2006/06/06 MATERIAL NO. SIZE A3		SCALE NTS TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT molex MOLEX INCORPORATED DOCUMENT NO. SD-78127-001		DESIGN UNITS METRIC THIRD ANGLE PROJECTION		SHEET NO. 7 OF 7	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																					
ib_frame_A3_P_AM_T Rev. E 2006/04/15										9	8	7	6	5	4	3	2	1			