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Part Number: [0781191378](#)
Status: **Active**
Overview: [ffc_fpc_smt](#)
Description: 0.50mm (.020") Pitch FFC/FPC Connector, SMT, Non ZIF, Vertical, Gold Plating, 37 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	78119
Overview	ffc_fpc_smt
Product Name	N/A

Physical

Circuits (Loaded)	37
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

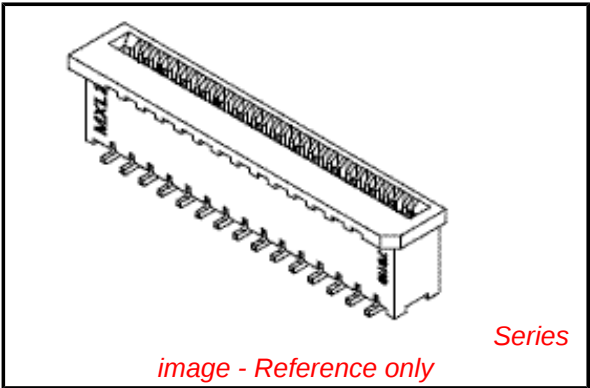
Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	50V AC

Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-78119-001
Product Specification	PS-78119-001
Sales Drawing	SD-78119-001



EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No**
**Halogen-Free
Status**

China RoHS



**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

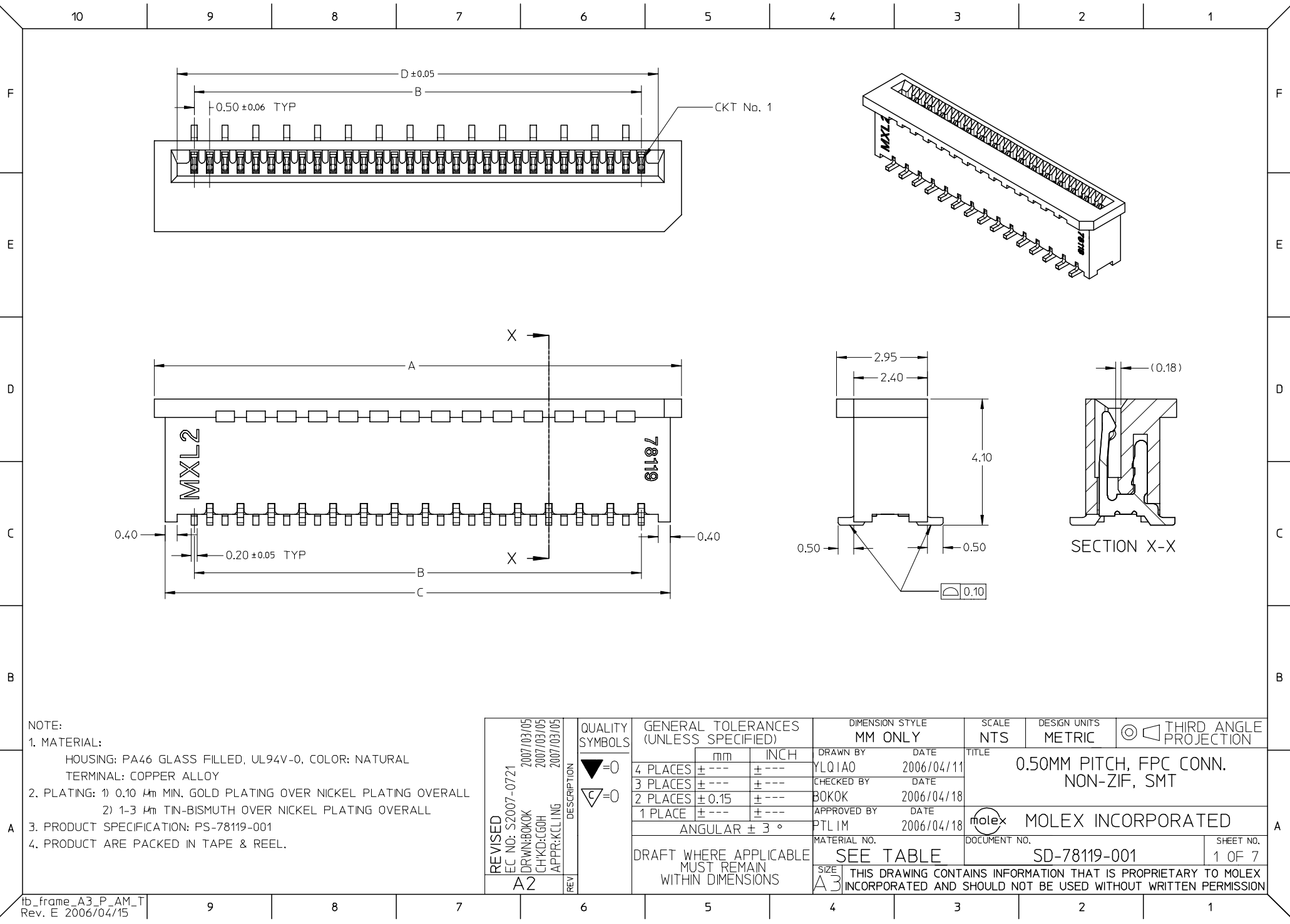
Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series
[78119Series](#)

Mates With
[Standard FFC/FPC Cables](#)

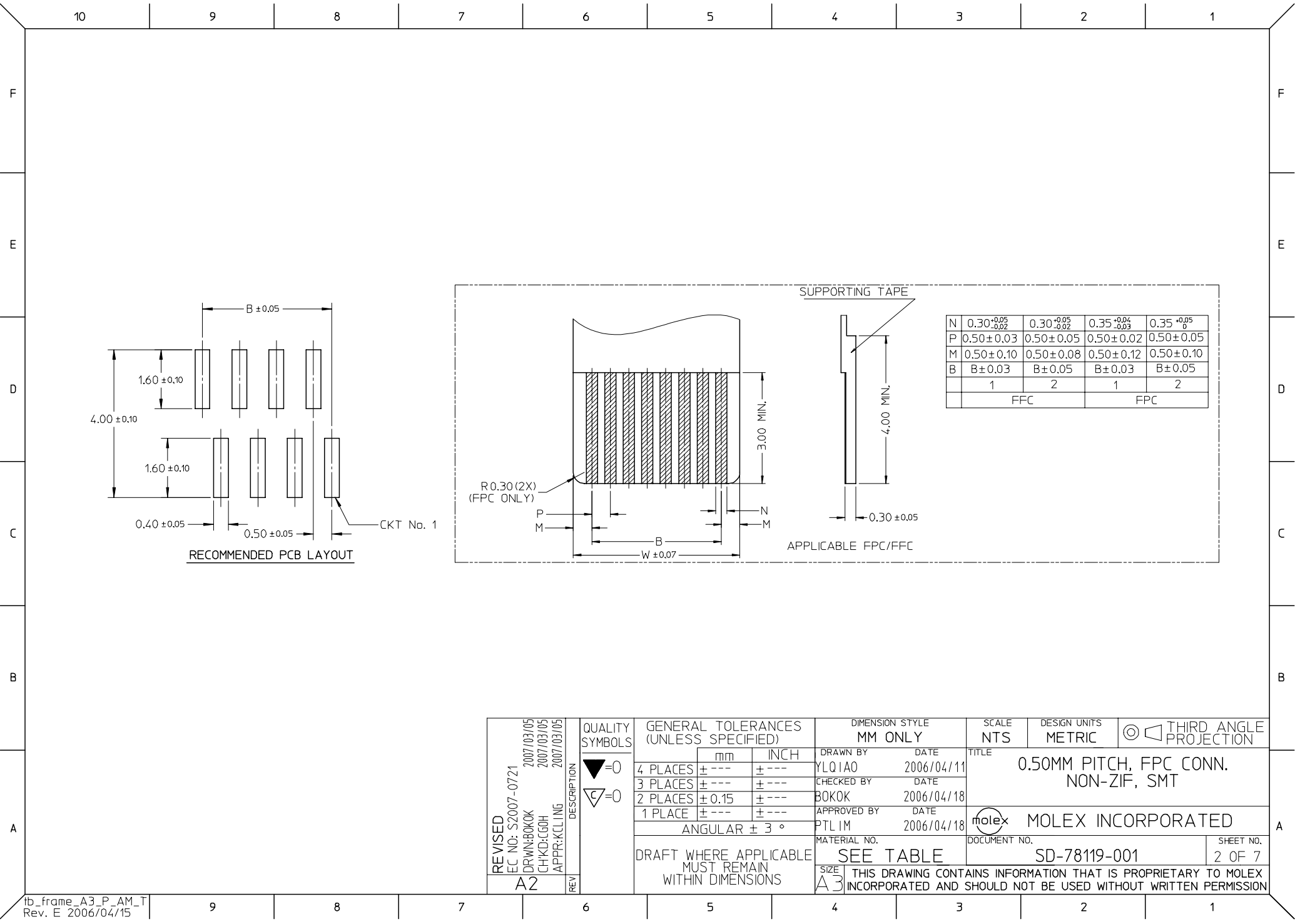
This document was generated on 06/07/2010

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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 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 A2	DESCRIPTION 2007/03/05 2007/03/05 2007/03/05	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY YLQIAO	DATE 2006/04/11	TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT				
			4 PLACES	± ---	± ---	CHECKED BY	DATE					
			3 PLACES	± ---	± ---	BOKOK	2006/04/18					
			2 PLACES	± 0.15	± ---	APPROVED BY	DATE	MOLEX INCORPORATED				
1 PLACE	± ---	± ---	PTL IM	2006/04/18								
			ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-78119-001		1 OF 7			
REV					SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



GOLD PLATING TERMINAL ASSEMBLY PART NUMBERS

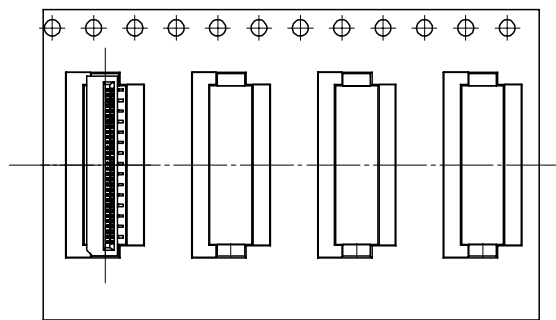
ASSY P/N W/O PACKAGING	CKT	DIM A	DIM B	DIM C	DIM D	PLATING TYPE
78119-0068	6	5.10	2.50	4.40	3.60	1
78119-0078	7	5.60	3.00	4.90	4.10	
78119-0088	8	6.10	3.50	5.40	4.60	
78119-0098	9	6.60	4.00	5.90	5.10	
78119-0108	10	7.10	4.50	6.40	5.60	
78119-0118	11	7.60	5.00	6.90	6.10	
78119-0128	12	8.10	5.50	7.40	6.60	
78119-0138	13	8.60	6.00	7.90	7.10	
78119-0148	14	9.10	6.50	8.40	7.60	
78119-0158	15	9.60	7.00	8.90	8.10	
78119-0168	16	10.10	7.50	9.40	8.60	
78119-0178	17	10.60	8.00	9.90	9.10	
78119-0188	18	11.10	8.50	10.40	9.60	
78119-0198	19	11.60	9.00	10.90	10.10	
78119-0208	20	12.10	9.50	11.40	10.60	
78119-0218	21	12.60	10.00	11.90	11.10	
78119-0228	22	13.10	10.50	12.40	11.60	
78119-0238	23	13.60	11.00	12.90	12.10	
78119-0248	24	14.10	11.50	13.40	12.60	
78119-0258	25	14.60	12.00	13.90	13.10	
78119-0268	26	15.10	12.50	14.40	13.60	
78119-0278	27	15.60	13.00	14.90	14.10	
78119-0288	28	16.10	13.50	15.40	14.60	
78119-0298	29	16.60	14.00	15.90	15.10	
78119-0308	30	17.10	14.50	16.40	15.60	

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78119-0318	31	17.60	15.00	16.90	16.10	1
78119-0328	32	18.10	15.50	17.40	16.60	
78119-0338	33	18.60	16.00	17.90	17.10	
78119-0348	34	19.10	16.50	18.40	17.60	
78119-0358	35	19.60	17.00	18.90	18.10	
78119-0368	36	20.10	17.50	19.40	18.60	
78119-0378	37	20.60	18.00	19.90	19.10	
78119-0388	38	21.10	18.50	20.40	19.60	
78119-0398	39	21.60	19.00	20.90	20.10	
78119-0408	40	22.10	19.50	21.40	20.60	
78119-0418	41	22.60	20.00	21.90	21.10	
78119-0428	42	23.10	20.50	22.40	21.60	

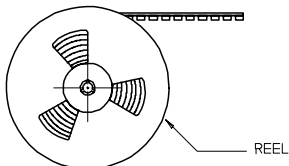
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	CHKD:GQH	2007/03/05				DRAWN BY DATE		TITLE		0.50MM PITCH, FPC CONN. NON-ZIF, SMT	
	APPR:KCLING	2007/03/05				2006/04/11					
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						2006/04/11					
						CHECKED BY DATE		DOCUMENT NO.		SD-78119-001	
						2006/04/18					
APPROVED BY DATE		MATERIAL NO.									
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78119-0369	36	20.10	17.50	19.40	18.60																																																																																																																																																																																																																																																						
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78119-0389	38	21.10	18.50	20.40	19.60																																																																																																																																																																																																																																																						
78119-0399	39	21.60	19.00	20.90	20.10																																																																																																																																																																																																																																																						
78119-0409	40	22.10	19.50	21.40	20.60																																																																																																																																																																																																																																																						
78119-0419	41	22.60	20.00	21.90	21.10																																																																																																																																																																																																																																																						
78119-0429	42	23.10	20.50	22.40	21.60																																																																																																																																																																																																																																																						
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A	<table><tr><td rowspan="10">REVISED EC NO: S2007-0721 2007/03/05 DRWN:BOKOK 2007/03/05 CHKD:CGOH 2007/03/05 APPR:KCLING</td><td rowspan="10">REV DESCRIPTION</td><td rowspan="10">QUALITY SYMBOLS ▽=0 ▽=0</td><td rowspan="10">GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.15 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">DIMENSION STYLE MM ONLY</td><td>SCALE NTS</td><td>DESIGN UNITS METRIC</td><td colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td colspan="2">DRAWN BY YLQIAO</td><td>DATE 2006/04/11</td><td colspan="4" rowspan="2">TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT</td></tr><tr><td colspan="2">CHECKED BY BOKOK</td><td>DATE 2006/04/18</td></tr><tr><td colspan="2">APPROVED BY PTL IM</td><td>DATE 2006/04/18</td><td colspan="4" rowspan="2">MOLEX INCORPORATED</td></tr><tr><td colspan="2">MATERIAL NO.</td><td>DOCUMENT NO.</td></tr><tr><td colspan="2">SIZE A3</td><td colspan="4">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 2007/03/05 DRWN:BOKOK 2007/03/05 CHKD:CGOH 2007/03/05 APPR:KCLING	REV DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.15 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		DRAWN BY YLQIAO		DATE 2006/04/11	TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT				CHECKED BY BOKOK		DATE 2006/04/18	APPROVED BY PTL IM		DATE 2006/04/18	MOLEX INCORPORATED				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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					10	9	8	7	6	5					4	3	2	1																																																																																																																																																																																																																																									

EMBOSSED TYPE A



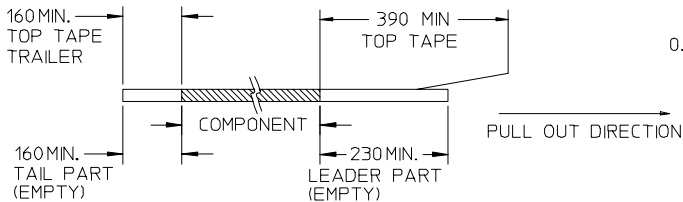
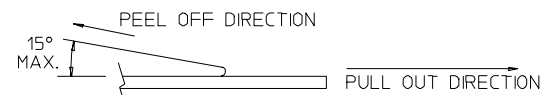
CUSTOMER
PULL OUT DIRECTION



REEL

NOTES:

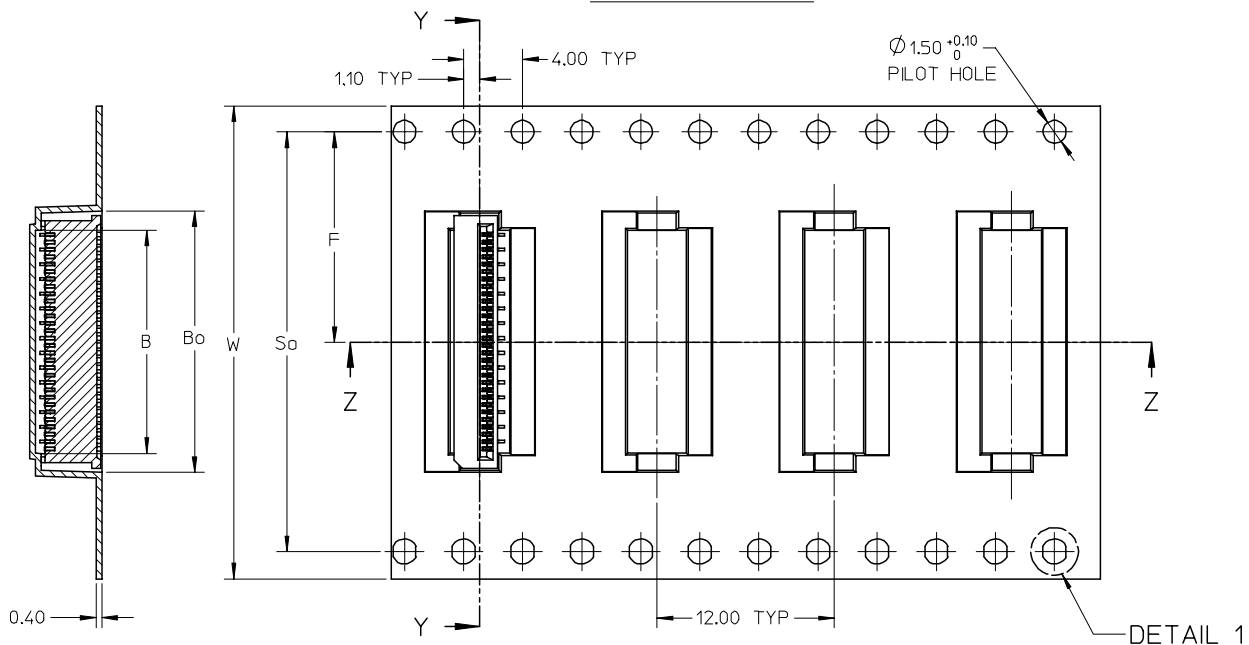
1. LEADER AND TRAILER TAPE

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

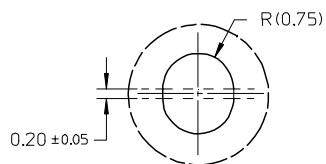
3. PACKAGING STANDARD IS AS PER EIA-481.

4. TAPE & REEL QUANTITY = 1000 PCS/REEL

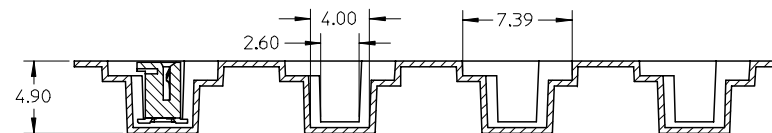
EMBOSSED TYPE B



SECTION Y-Y



DETAIL 1



SECTION Z-Z

REVISED EC NO: S2007-0721 DRWN:BOKOK CHKD:CGOH APPR:KCLING 2007/03/05 2007/03/05 2007/03/05	DESCRIPTION	QUALITY SYMBOLS ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY YLQIAO	DATE 2006/04/11	TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT				
			3 PLACES ± ---	± ---	CHECKED BY BOKOK	DATE 2006/04/18					
			2 PLACES ± 0.15	± ---	APPROVED BY PTL IM	DATE 2006/04/18	molex MOLEX INCORPORATED				
			1 PLACE ± ---	± ---	MATERIAL NO.						
A2	REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-78119-001				
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											

TIN-BISMUTH 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
78119-1069	78119-0069	6	24.00	-	11.50	5.40	3.10	A
78119-1079	78119-0079	7	24.00	-	11.50	5.90	3.60	
78119-1089	78119-0089	8	24.00	-	11.50	6.40	4.10	
78119-1099	78119-0099	9	24.00	-	11.50	6.90	4.60	
78119-1109	78119-0109	10	24.00	-	11.50	7.40	5.10	
78119-1119	78119-0119	11	24.00	-	11.50	7.90	5.60	
78119-1129	78119-0129	12	24.00	-	11.50	8.40	6.10	
78119-1139	78119-0139	13	24.00	-	11.50	8.90	6.60	
78119-1149	78119-0149	14	24.00	-	11.50	9.40	7.10	
78119-1159	78119-0159	15	24.00	-	11.50	9.90	7.60	
78119-1169	78119-0169	16	24.00	-	11.50	10.40	8.10	
78119-1179	78119-0179	17	24.00	-	11.50	10.90	8.60	
78119-1189	78119-0189	18	24.00	-	11.50	11.40	9.10	
78119-1199	78119-0199	19	24.00	-	11.50	11.90	9.60	
78119-1209	78119-0209	20	24.00	-	11.50	12.40	10.10	
78119-1219	78119-0219	21	32.00	28.40	14.20	12.90	10.60	B
78119-1229	78119-0229	22	32.00	28.40	14.20	13.40	11.10	
78119-1239	78119-0239	23	32.00	28.40	14.20	13.90	11.60	
78119-1249	78119-0249	24	32.00	28.40	14.20	14.40	12.10	
78119-1259	78119-0259	25	32.00	28.40	14.20	14.90	12.60	
78119-1269	78119-0269	26	32.00	28.40	14.20	15.40	13.10	
78119-1279	78119-0279	27	32.00	28.40	14.20	15.90	13.60	
78119-1289	78119-0289	28	32.00	28.40	14.20	16.40	14.10	
78119-1299	78119-0299	29	32.00	28.40	14.20	16.90	14.60	
78119-1309	78119-0309	30	32.00	28.40	14.20	17.40	15.10	

ASSY P/N PACKED IN T&R	ASSY P/N W/O PACKAGNG	CKT	W	So	F	Bo	B	EMBOSSED TYPE
78119-1319	78119-0319	31	32.00	28.40	14.20	17.90	15.60	B
78119-1329	78119-0329	32	32.00	28.40	14.20	18.40	16.10	
78119-1339	78119-0339	33	32.00	28.40	14.20	18.90	16.60	
78119-1349	78119-0349	34	32.00	28.40	14.20	19.40	17.10	
78119-1359	78119-0359	35	32.00	28.40	14.20	19.90	17.60	
78119-1369	78119-0369	36	32.00	28.40	14.20	20.40	18.10	
78119-1379	78119-0379	37	32.00	28.40	14.20	20.90	18.60	
78119-1389	78119-0389	38	32.00	28.40	14.20	21.40	19.10	
78119-1399	78119-0399	39	44.00	40.40	20.20	21.90	19.60	
78119-1409	78119-0409	40	44.00	40.40	20.20	22.40	20.10	
78119-1419	78119-0419	41	44.00	40.40	20.20	22.90	20.60	
78119-1429	78119-0429	42	44.00	40.40	20.20	23.40	21.10	

REVISED EC NO: S2007-0721 DRAWN: BOKOK CHK'D: CGH APPR: KCL ING A2	2007/03/05 2007/03/05 2007/03/05	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY YLIQIAO	DATE 2006/04/11	TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT		
				4 PLACES	± ---	± ---	CHECKED BY BOKOK	DATE 2006/04/18			
				3 PLACES	± ---	± ---	APPROVED BY PTL IM	DATE 2006/04/18			
				2 PLACES	± 0.15	± ---	MOLEX INCORPORATED			DOCUMENT NO. SD-78119-001	
			1 PLACE	± ---	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
						ANGULAR ± 3 °					