

10 9 8 7 6 5 4 3 2 1

F

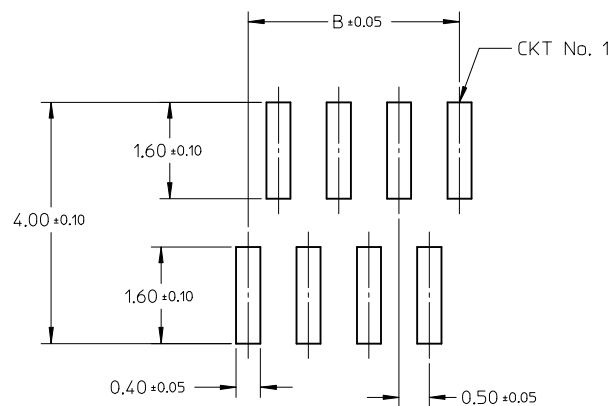
E

D

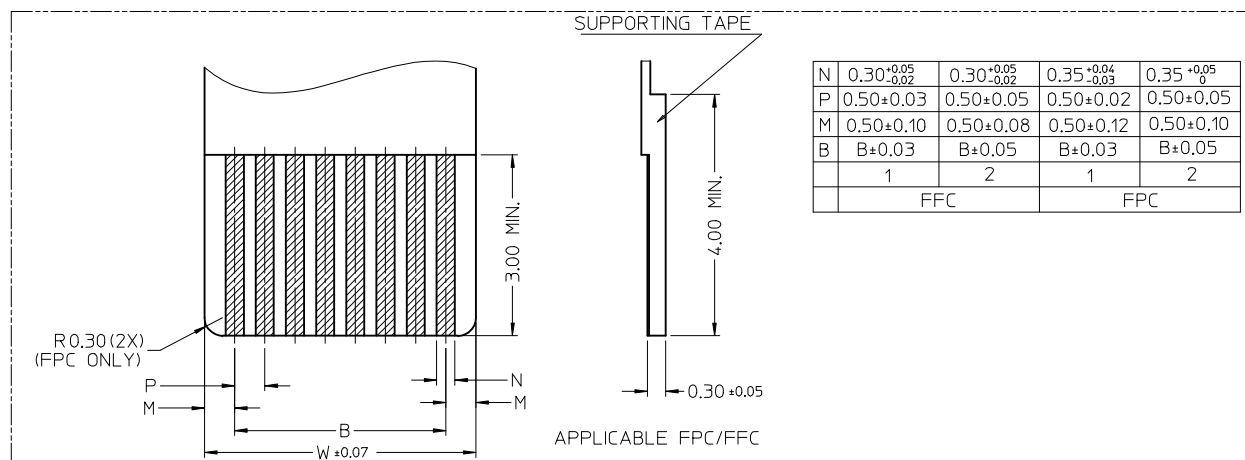
C

B

A



RECOMMENDED PCB LAYOUT



N	0.30 ^{+0.05} _{-0.02}	0.30 ^{+0.05} _{-0.02}	0.35 ^{+0.04} _{-0.03}	0.35 ^{+0.05} ₀
P	0.50±0.03	0.50±0.05	0.50±0.02	0.50±0.05
M	0.50±0.10	0.50±0.08	0.50±0.12	0.50±0.10
B	B±0.03	B±0.05	B±0.03	B±0.05
	1	2	1	2
	FFC		FPC	

REVISED EC NO: J2013-0629 DRWN: TMORI/SHITA 2012/11/30 CHKD: K TAKAHASHI 2012/11/30 APPR: KMORI/KAWA 2012/12/11	DESCRIPTION	QUALITY SYMBOLS <div>F_A=0</div> <div>F_B=0</div> <div>F_C=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY YLOIAO	DATE 2006/05/05	TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT				
			4 PLACES	± ---	± ---	CHECKED BY BOKOK	DATE 2006/06/06					
			3 PLACES	± ---	± ---							
			2 PLACES	± 0.15	± ---			molex				
			1 PLACE	± ---	± ---	APPROVED BY PTLIM	DATE 2006/06/06					
			0 PLACE	±	±							
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-78127-001			2 OF 7	
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

9 8 7 6 5 4 3 2 1

10987654321

F

E

D

C

B

A

10987654321

TIN-BISMUTH PLATING TERMINAL ASSEMBLY PART NUMBERS

ASSY P/N W/O PACKAGING	CKT	DIM A	DIM B	DIM C	DIM D	PLATING TYPE
78127-0109	10	7.10	4.50	6.40	5.60	2
78127-0119	11	7.60	5.00	6.90	6.10	
78127-0129	12	8.10	5.50	7.40	6.60	
78127-0139	13	8.60	6.00	7.90	7.10	
78127-0149	14	9.10	6.50	8.40	7.60	
78127-0159	15	9.60	7.00	8.90	8.10	
78127-0169	16	10.10	7.50	9.40	8.60	
78127-0179	17	10.60	8.00	9.90	9.10	
78127-0189	18	11.10	8.50	10.40	9.60	
78127-0199	19	11.60	9.00	10.90	10.10	
78127-0209	20	12.10	9.50	11.40	10.60	
78127-0219	21	12.60	10.00	11.90	11.10	
78127-0229	22	13.10	10.50	12.40	11.60	
78127-0239	23	13.60	11.00	12.90	12.10	
78127-0249	24	14.10	11.50	13.40	12.60	
78127-0259	25	14.60	12.00	13.90	13.10	
78127-0269	26	15.10	12.50	14.40	13.60	
78127-0279	27	15.60	13.00	14.90	14.10	
78127-0289	28	16.10	13.50	15.40	14.60	
78127-0299	29	16.60	14.00	15.90	15.10	
78127-0309	30	17.10	14.50	16.40	15.60	

ASSY P/N W/O PACKAGING	CKT	DIM A	DIM B	DIM C	DIM D	PLATING TYPE
78127-0319	31	17.60	15.00	16.90	16.10	2
78127-0329	32	18.10	15.50	17.40	16.60	
78127-0339	33	18.60	16.00	17.90	17.10	
78127-0349	34	19.10	16.50	18.40	17.60	
78127-0359	35	19.60	17.00	18.90	18.10	
78127-0369	36	20.10	17.50	19.40	18.60	
78127-0379	37	20.60	18.00	19.90	19.10	
78127-0389	38	21.10	18.50	20.40	19.60	
78127-0399	39	21.60	19.00	20.90	20.10	
78127-0409	40	22.10	19.50	21.40	20.60	

REVISED

EC NO: J2013-0629

DRWN:TMORISHITA 2012/11/30

CHKD:KTAKAHASHI 2012/11/30

APPR:KMORIKAWA 2012/12/11

B

DESCRIPTION

QUALITY SYMBOLS

GENERAL TOLERANCES
(UNLESS SPECIFIED)

mmINCH

4 PLACES±---±---

3 PLACES±---±---

2 PLACES±0.15±---

1 PLACE±---±---

0 PLACE±±

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY
YLQIAO

DATE
2006/05/05

CHECKED BY
BOKOK

DATE
2006/06/06

APPROVED BY
PTLIM

DATE
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

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

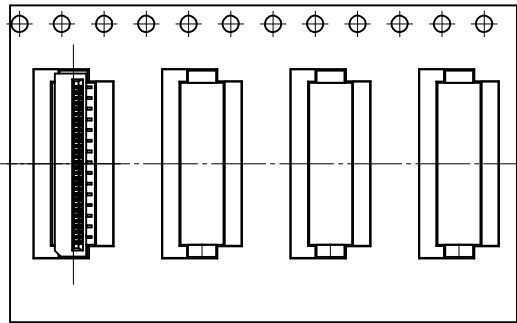
molex

DOCUMENT NO.
SD-78127-001

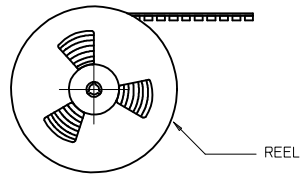
SHEET NO.
4 OF 7

Downloaded from [Arrow.com](#)

EMBOSSED TYPE A



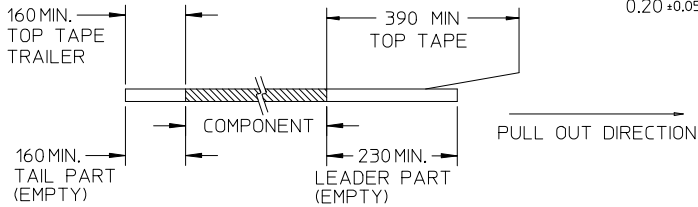
CUSTOMER
PULL OUT DIRECTION



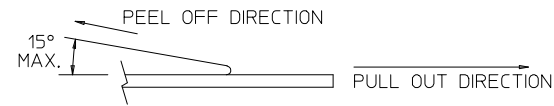
REEL

NOTES:

1. LEADER AND TRAILER TAPE



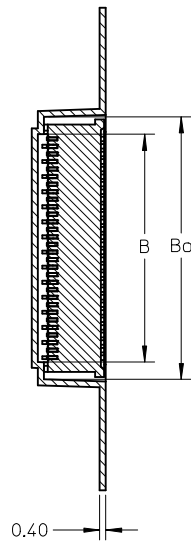
2. PEELING OFF FORCE OF THE TOP TAPE: 20-80gf. (PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



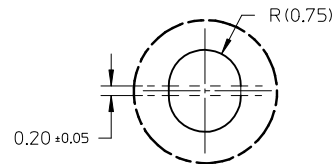
3. PACKAGING STANDARD IS AS PER EIA-481.

4. TAPE & REEL QUANTITY = 1000 PCS/REEL

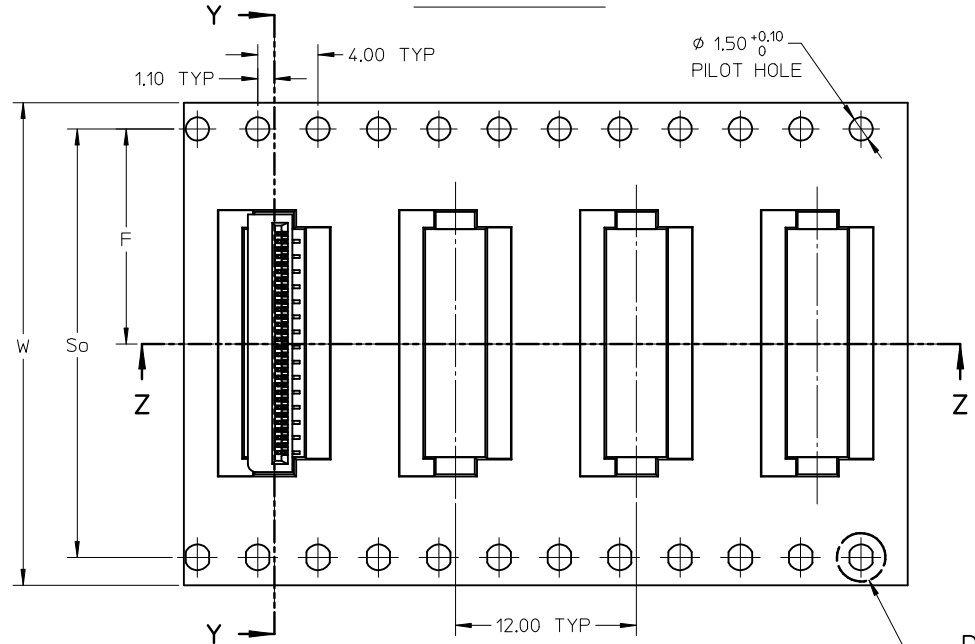
SECTION Y-Y



DETAIL 1

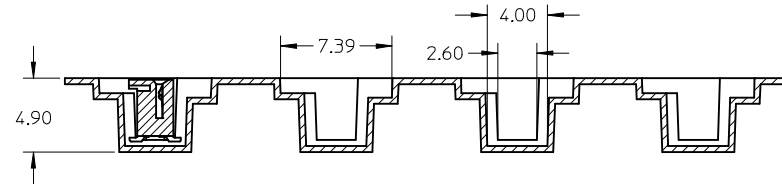


EMBOSSED TYPE B



DETAIL 1

SECTION Z-Z



REVISED	EC NO: J2013-0629 DRWN:TMORI/SHITA 2012/11/30 CHKD:K TAKAHASHI 2012/11/30 APPR:KMORI/KAWA 2012/12/11	DESCRIPTION	QUALITY SYMBOLS <div><div>F_A=0</div><div>F_C=0</div><div>F_P=0</div></div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
						DRAWN BY DATE		TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT						
						YLOIAO 2006/05/05								
				4 PLACES ± --- ± ---		CHECKED BY DATE		molex						
				3 PLACES ± --- ± ---		BOKOK 2006/06/06								
				2 PLACES ± 0.15 ± ---		APPROVED BY DATE								
				1 PLACE ± --- ± ---		PTLIM 2006/06/06		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						
				0 PLACE ± ±		MATERIAL NO.						DOCUMENT NO.		SHEET NO.
				ANGULAR ± 3 °		SEE TABLE						SD-78127-001		5 OF 7
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

ASSY P/N PACKED IN T&R	ASSY P/N W/O PACKAGING	CKT	W	So	F	Bo	B	EMBOSSED TYPE
78127-1108	78127-0108	10	24.00	-	11.50	7.40	5.10	A
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	
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	B
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	
78127-1348	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	

REVISED	EC NO: J2013-0629	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY	DATE	TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT						
	4 PLACES			± ---	± ---	YLOIAO	2006/05/05							
	3 PLACES			± ---	± ---	CHECKED BY	DATE	molex						
	2 PLACES			± 0.15	± ---	BOKOK	2006/06/06							
	1 PLACE			± ---	± ---	APPROVED BY	DATE					DOCUMENT NO. SD-78127-001		
0 PLACE			±	±	PTLIM	2006/06/06	SHEET NO. 6 OF 7							
ANGULAR ± 3 °			MATERIAL NO.											
DRAFT WHERE APPLICABLE			SEE TABLE											
MUST REMAIN WITHIN DIMENSIONS			SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

ASSY P/N PACKED IN T&R	ASSY P/N W/O PACKAGING	CKT	W	So	F	Bo	B	EMBOSSED TYPE
78127-1109	78127-0109	10	24.00	-	11.50	7.40	5.10	A
78127-1119	78127-0119	11	24.00	-	11.50	7.90	5.60	
78127-1129	78127-0129	12	24.00	-	11.50	8.40	6.10	
78127-1139	78127-0139	13	24.00	-	11.50	8.90	6.60	
78127-1149	78127-0149	14	24.00	-	11.50	9.40	7.10	
78127-1159	78127-0159	15	24.00	-	11.50	9.90	7.60	
78127-1169	78127-0169	16	24.00	-	11.50	10.40	8.10	
78127-1179	78127-0179	17	24.00	-	11.50	10.90	8.60	
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	B
78127-1219	78127-0219	21	32.00	28.40	14.20	12.90	10.60	
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	

ASSY P/N PACKED IN T&R	ASSY P/N W/O PACKAGING	CKT	W	So	F	Bo	B	EMBOSSED TYPE
78127-1319	78127-0319	31	32.00	28.40	14.20	17.90	15.60	B
78127-1329	78127-0329	32	32.00	28.40	14.20	18.40	16.10	
78127-1339	78127-0339	33	32.00	28.40	14.20	18.90	16.60	
78127-1349	78127-0349	34	32.00	28.40	14.20	19.40	17.10	
78127-1359	78127-0359	35	32.00	28.40	14.20	19.90	17.60	
78127-1369	78127-0369	36	32.00	28.40	14.20	20.40	18.10	
78127-1379	78127-0379	37	32.00	28.40	14.20	20.90	18.60	
78127-1389	78127-0389	38	32.00	28.40	14.20	21.40	19.10	
78127-1399	78127-0399	39	44.00	40.40	20.20	21.90	19.60	
78127-1409	78127-0409	40	44.00	40.40	20.20	22.40	20.10	

REVISED EC NO: J2013-0629 DRWN:TWORI/SHI TA 2012/11/30 CHKD:KTAKAHASHI 2012/11/30 APPR:KMORI/KAWA 2012/12/11	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
			mm INCH		DRAWN BY DATE		TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT				
			4 PLACES ± --- ± ---		YLOIAO 2006/05/05						
			3 PLACES ± --- ± ---		CHECKED BY DATE						
			2 PLACES ± 0.15 ± ---		BOKOK 2006/06/06		molex				
			1 PLACE ± --- ± ---		APPROVED BY DATE						
			0 PLACE ± ±		PTLIM 2006/06/06						
			ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-78127-001		7 OF 7		
			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

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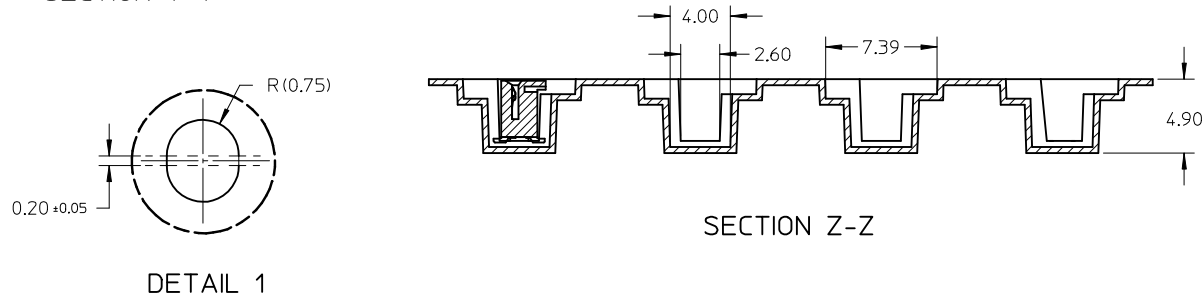
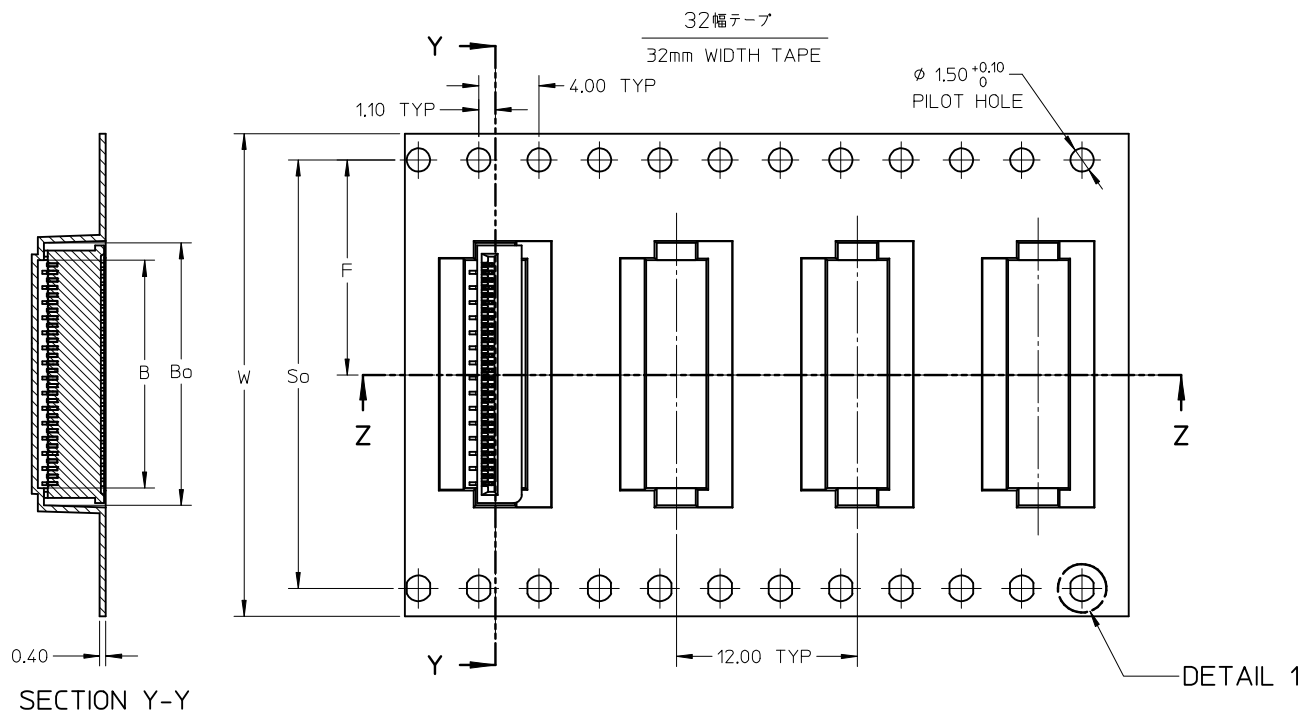
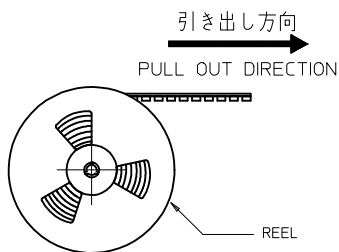
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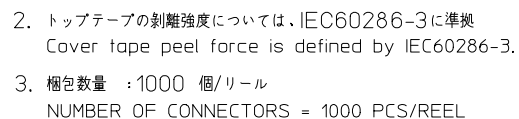
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A



RELEASED EC NO: J2014-1840 DRAWN: NKONDO CHKD: KTAKAHASHI APPR: YNOGAWA REV 0	DESCRIPTION 2014/09/16 2014/09/16 2014/11/10	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		10 UNDER	± 0.15	DRAWN BY NKONDO	DATE 2014/09/16	TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT EMBOSSD TAPE PACKAGE molex			
		10 OVER 30 UNDER	± 0.15	CHECKED BY KTAKAHASHI	DATE 2014/09/16				
		30 OVER	± 0.15	APPROVED BY YNOGAWA	DATE 2014/11/10				
		ANGULAR ±3 °		MATERIAL NO. SEE CHART					DOCUMENT NO. SD-78127-003
	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					

1. リードテープ長さ
LEAD TAPE LENGTH



TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
DR	± 0.15	DRAWN BY NKONDO	DATE 2014/09/16	TITLE 0.50MM PITCH, FPC CONN. NON-ZIF, SMT EMBOSSSED TAPE PACKAGE molex		
30 UNDER	± 0.15	CHECKED BY KTAHASHI	DATE 2014/09/16			
	± 0.15	APPROVED BY YNOGAWA	DATE 2014/11/10			
AR	± 3 °	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-78127-003	SHEET NO. 2 OF 2	
WHERE APPLICABLE MUST REMAIN THIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				