

F

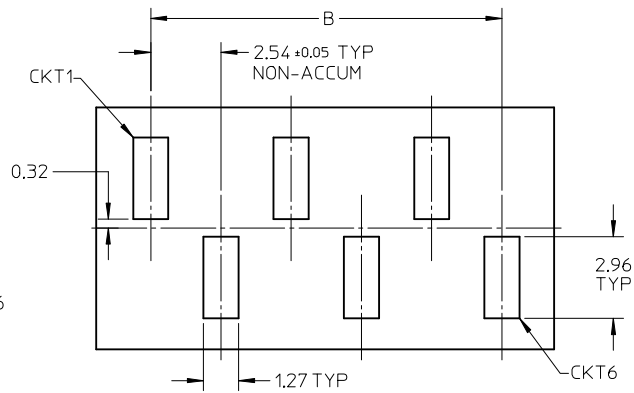
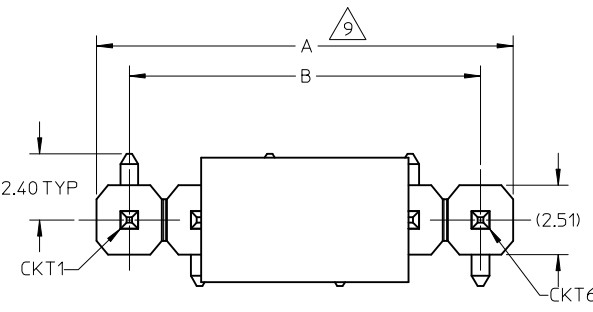
E

D

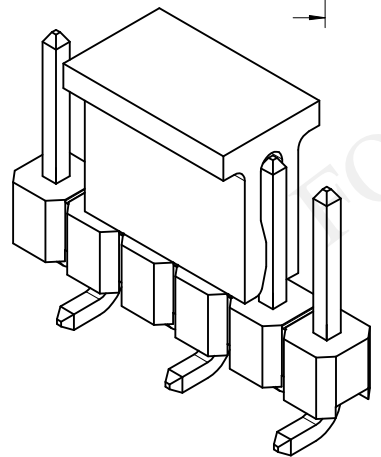
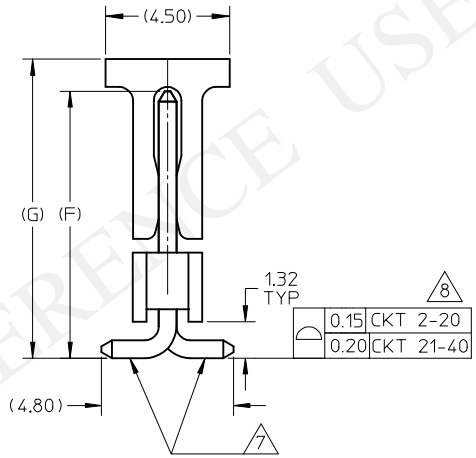
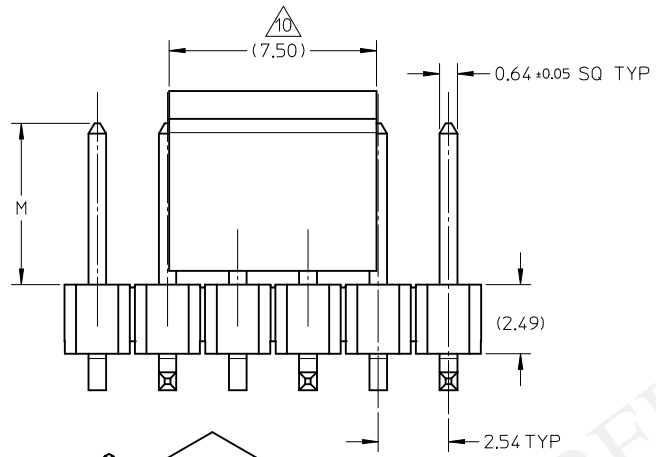
C

B

A



RECOMMENDED PCB LAYOUT: COMPONENT SIDE



NOTES:

1. MATERIAL:  
HSG: NYLON, GLASS-FILLED, UL94V-0, COLOR: BLACK  
CAP: NYLON, GLASS-FILLED, UL94V-0, COLOR: BLACK  
PIN: 0.64MM SQ, COPPER ALLOY
2. PLATING TYPE:  
(1) GOLD FLASH OVER  
1.25µm MIN. NICKEL OVERALL.  
(2) GOLD FLASH ON CONTACT AND  
2.50µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.  
(4) 0.38µm MIN. GOLD PLATE ON CONTACT AND  
2.00µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.  
(5) 0.75µm MIN. GOLD PLATE ON CONTACT AND  
2.00µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.  
(6) 2.50µm MIN. TIN OVERALL  
1.25µm MIN. NICKEL OVERALL
3. PRODUCT SPECIFICATION: PS-87920-019
4. PACKAGING TYPE: TAPE AND REEL
5. PACKAGING SPEC:  
EMBOSS TAPE WITH CAP: RPK-89990-0001
6. WAFER TO BE FLAT WITHIN 0.003 mm/mm
7. BEND DEPRESSION IS ACCEPTED SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY OF TAIL
8. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A FLAT SURFACE
9. IRREGULAR CIRCUIT CUTOFF WITHIN BREAKAWAY SECTION IS PERMISSIBLE. CUTTING OR CHIPPING OF THE MAIN BODY IS NOT ACCEPTABLE
10. CAP LOCATION IS CENTERED ALONG THE MATING ENDS AS SHOWN. TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE
11. RECOMMENDED PCB THICKNESS IS 1.60mm±0.10
12. THE ABOVE CKT 6 IS FOR ILLUSTRATION PURPOSE ONLY

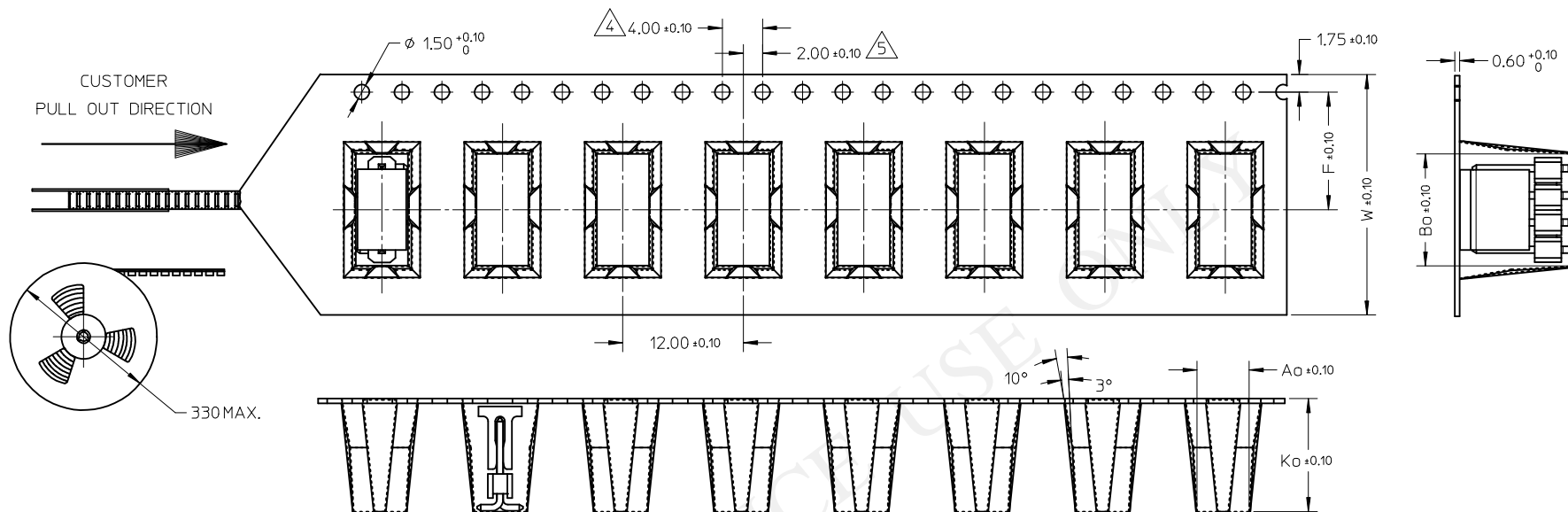
SEE SHEET 2 EC NO: S2016-0353 DRWN:MRMAKRISHNA 2015/10/13 CHKD:CGOH 2015/10/13 APPR:MRMAKRISHNA 2016/03/22  1	DESCRIPTION          REV	QUALITY SYMBOLS  F <sub>A</sub> =0  F <sub>G</sub> =0  F <sub>P</sub> =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY	DATE	TITLE  CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER				
			4 PLACES	± ---	± ---	MRMAKRISHNA 2015/10/13						
			3 PLACES	± ---	± ---	CHECKED BY	DATE					
			2 PLACES	± 0.2	± ---	CGOH	2015/10/13	MOLEX INCORPORATED				
			1 PLACE	± ---	± ---	APPROVED BY	DATE					
			ANGULAR ± 3 °		MRMAKRISHNA 2016/03/22		MOLEX					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
					SEE TABLE		RSD-87898-0001		1 OF 4			
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

[illegible]

10 9 8 7 6 5 4 3 2 1

CKT	DIMENSION				
	Bo	Ao	Ko	F	W
3	8.02	5.20	13.60	11.50	24.00

## EMBOSSED CARRIER TYPE 'A'



### NOTES:

#### 1. LEADER AND TRAILER TAPE

160 MIN. TOP TAPE TRAILER

390 MIN TOP TAPE NON BONDED TAPE

160 MIN. TAIL PART (EMPTY)

230 MIN. LEADER PART (EMPTY)

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

PEEL OFF DIRECTION

15° MAX.

PULL OUT DIRECTION

3. MATERIAL: BLACK P.S CONDUCTIVE, BLACK
4. MEASURED FROM CENTRELINE OF SPROCKET HOLE TO CENTRELINE OF SPOCKET
5. CUMULATIVE TOLERANCE OF 10 SPROCKET HOLE IS  $\pm 0.20\text{mm}$
6. A0 AND B0 ARE MEASURED FROM ABOVE POCKET BASE 0.30mm
7. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
8. TAPE AND REEL QUANTITY : 440PCS/REEL
9. THE TAPE IS TREATED FOR ANTI-STATIC.
10. ALL RADIUS ARE 0.30MM UNLESS SPECIFY
11. SURFACE RESISTIVITY  $10^3$  TO  $10^9$  OHMS.

PART PACK  
IN E/TAPE  
ORIENTATION  
(FOR REF USE)

SEE SHEET 2 EC NO: S2016-0353 DRAWN:MRAMAKRISHNA 2015/10/13 CHKD:CGOH 2015/10/13 APPR:MRAMAKRISHNA 2016/03/22	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
					MM ONLY		NTS	METRIC			
					DRAWN BY DATE		TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER				
					MRAMAKRISHNA 2015/10/13						
					CHECKED BY DATE		MOLEX INCORPORATED				
					CGOH 2015/10/13						
					APPROVED BY DATE		DOCUMENT NO. RSD-87898-0001				
					MRAMAKRISHNA 2016/03/22						
					MATERIAL NO.		SHEET NO. 3 OF 4				
		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							
		SIZE A3									



10 9 8 7 6 5 4 3 2 1

F

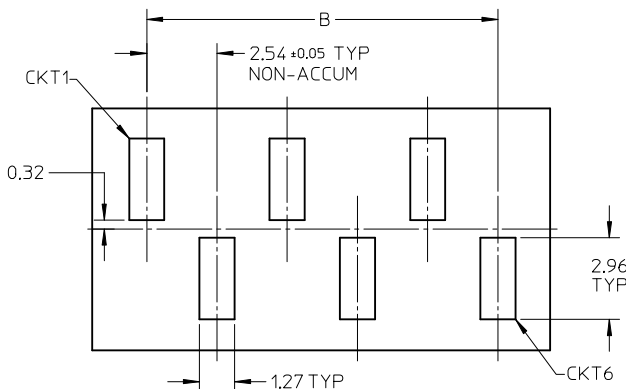
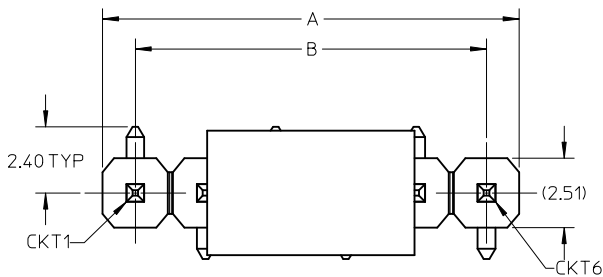
E

D

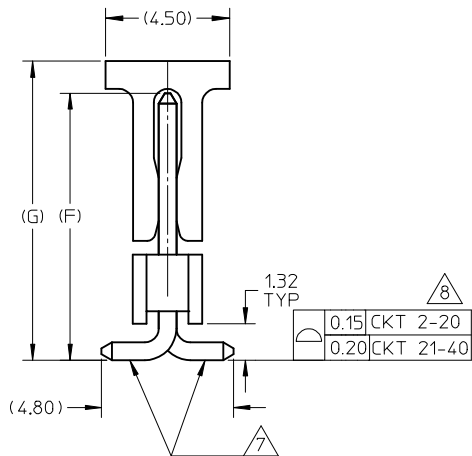
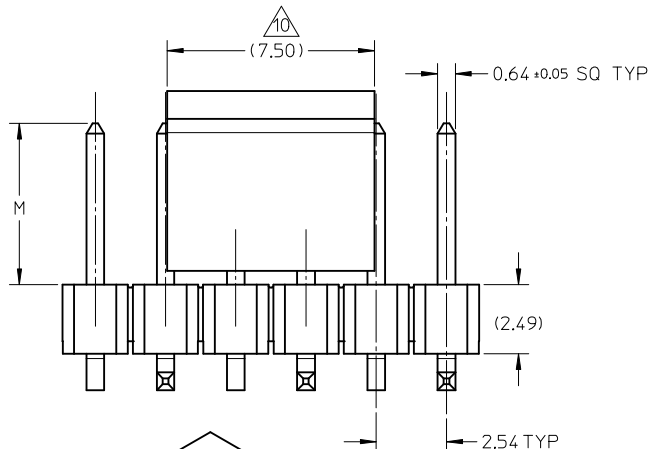
C

B

A



RECOMMENDED PCB LAYOUT: COMPONENT SIDE



NOTES:

1. MATERIAL:

HSG: NYLON, GLASS-FILLED, UL94V-0, COLOR: BLACK  
CAP: NYLON, GLASS-FILLED, UL94V-0, COLOR: BLACK  
PIN: 0.64MM SQ, COPPER ALLOY

2. PLATING TYPE:

- (1) GOLD FLASH OVER  
1.25µm MIN. NICKEL OVERALL.
- (2) GOLD FLASH ON CONTACT AND  
2.50µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.
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2.00µm MIN. TIN ON SOLDER TAIL OVER  
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- (5) 0.75µm MIN. GOLD PLATE ON CONTACT AND  
2.00µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.
- (6) 2.50µm MIN. TIN OVERALL  
1.25µm MIN. NICKEL OVERALL

3. PRODUCT SPECIFICATION: PS-87920-019

4. PACKAGING TYPE: SEE TABLE

5. PACKAGING SPEC:

TUBE WITH CAP VERSION: PK-89990-558  
TUBE W/O CAP VERSION: PK-89990-545  
TRAY W/O CAP: PK-89990-489  
EMBOSS TAPE WITH CAP: PK-89990-486

6. WAFER TO BE FLAT WITHIN 0.003 mm/mm

7. BEND DEPRESSION IS ACCEPTED SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY OF TAIL
8. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A FLAT SURFACE
9. IRREGULAR CIRCUIT CUTOFF WITHIN BREAKAWAY SECTION IS PERMISSIBLE. CUTTING OR CHIPPING OF THE MAIN BODY IS NOT ACCEPTABLE
10. CAP LOCATION IS CENTERED ALONG THE MATING ENDS AS SHOWN. TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE
11. RECOMMENDED PCB THICKNESS IS 1.60mm±0.10
12. THE ABOVE CKT 6 IS FOR ILLUSTRATION PURPOSE ONLY
13. TUBE LENGTH AS PER STANDARD 560mm

SEE SHEET 21 EC NO: S2016-0687 DRW: NRAMAKRI SHNA 2016/02/01 CHKD: NRAMAKRI SHNA 2016/02/01 APPR: ISHWARG 2016/04/13	QUALITY SYMBOLS F <sub>A</sub> =0 F <sub>B</sub> =0 F <sub>C</sub> =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY YLQIAO	DATE 2005/03/14	CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER  MOLEX MOLEX INCORPORATED  SD-87898-001	
		4 PLACES	± ---	± ---		CHECKED BY PTLIM	DATE 2005/03/29		
		3 PLACES	± ---	± ---		APPROVED BY MLONG	DATE 2010/10/04		
B14	REV	ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		1 OF 21	

9 8 7 6 5 4 3 2 1

	10	9	8	7	6	5	4	3	2	1					
E	PACKAGING OPTION PART NO.						CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION					
	TRAY WITHOUT CAP	TRAY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP				A	B	G	F	M	
	87898-0301	-----	-----	-----	-----	-----	3	-----	1	7.62	5.08	10.81	9.65	5.84	
	87898-0302	-----	-----	-----	-----	-----	3	-----	2	7.62	5.08	10.81	9.65	5.84	
	87898-0304	-----	-----	-----	-----	87898-0314	3	-----	4	7.62	5.08	10.81	9.65	5.84	
	87898-0305	-----	-----	-----	-----	87898-0315	3	-----	5	7.62	5.08	10.81	9.65	5.84	
	87898-0306	-----	-----	-----	-----	87898-0316	3	-----	6	7.62	5.08	10.81	9.65	5.84	
E	REFER TO LAST SHEET FOR 2CKT SIZE														
D															
C															
B															
A															

	10	9	8	7	6	5	4	3	2	1									
F	PACKAGING OPTION PART NO.						CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION									
	TRAY WITHOUT CAP	TRAY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP				A	B	G	F	M					
	-----	-----	87898-0421	87898-0431	-----	87898-0451	4	-----	1	10.16	7.62	10.81	9.65	5.84					
	-----	-----	87898-0422	87898-0432	-----	87898-0452	4	-----	2	10.16	7.62	10.81	9.65	5.84					
	-----	-----	87898-0424	87898-0434	-----	87898-0454	4	-----	4	10.16	7.62	10.81	9.65	5.84					
	-----	-----	87898-0425	87898-0435	-----	87898-0455	4	-----	5	10.16	7.62	10.81	9.65	5.84					
	-----	-----	87898-0426	87898-0436	-----	87898-0456	4	-----	6	10.16	7.62	10.81	9.65	5.84					
E																			
	-----	-----	87898-0521	87898-0531	-----	87898-0551	5	-----	1	12.70	10.16	10.81	9.65	5.84					
	-----	-----	87898-0522	87898-0532	-----	87898-0552	5	-----	2	12.70	10.16	10.81	9.65	5.84					
D	-----	-----	87898-0524	87898-0534	-----	87898-0554	5	-----	4	12.70	10.16	10.81	9.65	5.84					
	-----	-----	87898-0525	87898-0535	-----	87898-0555	5	-----	5	12.70	10.16	10.81	9.65	5.84					
	-----	-----	87898-0526	87898-0536	-----	87898-0556	5	-----	6	12.70	10.16	10.81	9.65	5.84					
	-----	-----	87898-0621	87898-0631	-----	87898-0651	6	-----	1	15.24	12.70	10.81	9.65	5.84					
	-----	-----	87898-0622	87898-0632	-----	87898-0652	6	-----	2	15.24	12.70	10.81	9.65	5.84					
C	-----	-----	87898-0624	87898-0634	-----	87898-0654	6	-----	4	15.24	12.70	10.81	9.65	5.84					
	-----	-----	87898-0625	87898-0635	-----	87898-0655	6	-----	5	15.24	12.70	10.81	9.65	5.84					
	-----	-----	87898-0626	87898-0636	-----	87898-0656	6	-----	6	15.24	12.70	10.81	9.65	5.84					
	87898-0607	-----	-----	-----	-----	87898-0657	6	-----	6	15.24	12.70	16.47	15.31	11.50					
B															B				
A	SEE SHEET 21 EC NO: S2016-0687 DRAWN: MRAMAKRI SHNA 2016/02/01 CHKD: MRAMAKRI SHNA 2016/02/01 APPR: ISHWARG 2016/04/13 B14						REV	QUALITY SYMBOLS <div><div><div></div></div>=0</div> <div><div><div></div></div>=0</div> <div><div><div></div></div>=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED) <div><div>mm</div><div>INCH</div></div> <div>4 PLACES ± --- ± ---</div> <div>3 PLACES ± --- ± ---</div> <div>2 PLACES ± 0.2 ± ---</div> <div>1 PLACE ± --- ± ---</div> <div>ANGULAR ± 3 °</div>	DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION					
										DRAWN BY YLQIAO		DATE 2005/03/14		CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER MOLEX INCORPORATED					
										CHECKED BY PTLIM		DATE 2005/03/29							
										APPROVED BY MLONG		DATE 2010/10/04							
										MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87898-001		SHEET NO. 3 OF 21					
SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
fb_frame_A3_P_AM_T Rev. F 2009/06/18											9	8	7	6	5	4	3	2	1

	10	9	8	7	6	5	4	3	2	1					
	PACKAGING OPTION PART NO.						CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION					
	TRAY WITHOUT CAP	TRAY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP				A	B	G	F	M	
F	-----	-----	87898-0721	87898-0731	-----	87898-0751	7	-----	1	17.78	15.24	10.81	9.65	5.84	
	-----	-----	87898-0722	87898-0732	-----	87898-0752	7	-----	2	17.78	15.24	10.81	9.65	5.84	
	-----	-----	87898-0724	87898-0734	-----	87898-0754	7	-----	4	17.78	15.24	10.81	9.65	5.84	
	-----	-----	87898-0725	87898-0735	-----	87898-0755	7	-----	5	17.78	15.24	10.81	9.65	5.84	
	-----	-----	87898-0726	87898-0736	-----	87898-0756	7	-----	6	17.78	15.24	10.81	9.65	5.84	
E															
	-----	-----	87898-0821	87898-0831	-----	87898-0851	8	-----	1	20.32	17.78	10.81	9.65	5.84	
	-----	-----	87898-0822	87898-0832	-----	87898-0852	8	-----	2	20.32	17.78	10.81	9.65	5.84	
	-----	-----	87898-0824	87898-0834	-----	87898-0854	8	-----	4	20.32	17.78	10.81	9.65	5.84	
	-----	-----	87898-0825	87898-0835	-----	87898-0855	8	-----	5	20.32	17.78	10.81	9.65	5.84	
D	-----	-----	87898-0826	87898-0836	-----	87898-0856	8	-----	6	20.32	17.78	10.81	9.65	5.84	
	-----	-----	87898-0921	87898-0931	-----	87898-0951	9	-----	1	22.86	20.32	10.81	9.65	5.84	
	-----	-----	87898-0922	87898-0932	-----	87898-0952	9	-----	2	22.86	20.32	10.81	9.65	5.84	
	-----	-----	87898-0924	87898-0934	-----	87898-0954	9	-----	4	22.86	20.32	10.81	9.65	5.84	
C	-----	-----	87898-0925	87898-0935	-----	87898-0955	9	-----	5	22.86	20.32	10.81	9.65	5.84	
	-----	-----	87898-0926	87898-0936	-----	87898-0956	9	-----	6	22.86	20.32	10.81	9.65	5.84	
B															
A															
		SEE SHEET 21 EC NO: S2016--0687 DRWN:MURAKIRI SHINA 2016/02/01 CHKD:MURAKIRI SHINA 2016/02/01 APPR: ISHWARG 2016/04/13		REV	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 CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER MOLEX INCORPORATED					
							4 PLACES ± --- ± ---	YLQIAO 2005/03/14	CHECKED BY DATE						
							3 PLACES ± --- ± ---	PTLIM 2005/03/29	APPROVED BY DATE						
							2 PLACES ± 0.2 ± ---	MLONG 2010/10/04	MATERIAL NO.		DOCUMENT NO.	SHEET NO.			
		B14					ANGULAR ± 3 °		SEE TABLE		SD-87898-001		4 OF 21		
							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						

fb\_frame\_A3\_P\_AM\_T  
Rev. F 2009/06/18

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		10		9		8		7		6		5		4		3		2		1									
		PACKAGING OPTION PART NO.										CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION														
		TRAY WITHOUT CAP	TRAY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP	A							B	G	F	M											
F		-----	-----	87898-1321	87898-1331	-----	87898-1351	13	-----	1	33.02	30.48	10.81	9.65	5.84														
		-----	-----	87898-1322	87898-1332	-----	87898-1352	13	-----	2	33.02	30.48	10.81	9.65	5.84														
		-----	-----	87898-1324	87898-1334	-----	87898-1354	13	-----	4	33.02	30.48	10.81	9.65	5.84														
		-----	-----	87898-1325	87898-1335	-----	87898-1355	13	-----	5	33.02	30.48	10.81	9.65	5.84														
		-----	-----	87898-1326	87898-1336	-----	87898-1356	13	-----	6	33.02	30.48	10.81	9.65	5.84														
E		-----	-----	87898-1421	87898-1431	-----	87898-1451	14	-----	1	35.56	33.02	10.81	9.65	5.84														
		-----	-----	87898-1422	87898-1432	-----	87898-1452	14	-----	2	35.56	33.02	10.81	9.65	5.84														
		-----	-----	87898-1424	87898-1434	-----	87898-1454	14	-----	4	35.56	33.02	10.81	9.65	5.84														
		-----	-----	87898-1425	87898-1435	-----	87898-1455	14	-----	5	35.56	33.02	10.81	9.65	5.84														
		-----	-----	87898-1426	87898-1436	-----	87898-1456	14	-----	6	35.56	33.02	10.81	9.65	5.84														
D																													
		-----	-----	87898-1521	87898-1531	-----	87898-1551	15	-----	1	38.10	35.56	10.81	9.65	5.84														
		-----	-----	87898-1522	87898-1532	-----	87898-1552	15	-----	2	38.10	35.56	10.81	9.65	5.84														
		-----	-----	87898-1524	87898-1534	-----	87898-1554	15	-----	4	38.10	35.56	10.81	9.65	5.84														
C		-----	-----	87898-1525	87898-1535	-----	87898-1555	15	-----	5	38.10	35.56	10.81	9.65	5.84														
		-----	-----	87898-1526	87898-1536	-----	87898-1556	15	-----	6	38.10	35.56	10.81	9.65	5.84														
B																													
A																													
		SEE SHEET 21		EC NO: S2016-0687		DRAWN:MRAMAKRI SHINA 2016/02/01		CHKD:MRAMAKRI SHINA 2016/02/01		APPR: ISHWARG 2016/04/13		REV		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION					
														F=0		mm INCH		MM ONLY		NTS		METRIC							
														F=0		4 PLACES ± --- ± ---		DRAWN BY DATE		TITLE									
														F=0		3 PLACES ± --- ± ---		YLOIAO 2005/03/14											
																2 PLACES ± 0.2 ± ---		CHECKED BY DATE											
																1 PLACE ± --- ± ---		PTLIM 2005/03/29											
																ANGULAR ± 3 °		APPROVED BY DATE											
																		MLONG 2010/10/04											
																		MATERIAL NO.		DOCUMENT NO.									
																		SEE TABLE		SD-87898-001				SHEET NO.					
																		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				6 OF 21					
																		A3											

	10	9	8	7	6	5	4	3	2	1									
F	PACKAGING OPTION PART NO.						CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION					F				
	TRAY WITHOUT CAP	TRAY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP				A	B	G	F	M					
	-----	-----	87898-1621	87898-1631	-----	87898-1651	16	-----	1	40.64	38.10	10.81	9.65	5.84					
E	-----	-----	87898-1622	87898-1632	-----	87898-1652	16	-----	2	40.64	38.10	10.81	9.65	5.84	E				
	-----	-----	87898-1624	87898-1634	-----	87898-1654	16	-----	4	40.64	38.10	10.81	9.65	5.84					
	-----	-----	87898-1625	87898-1635	-----	87898-1655	16	-----	5	40.64	38.10	10.81	9.65	5.84					
	-----	-----	87898-1626	87898-1636	-----	87898-1656	16	-----	6	40.64	38.10	10.81	9.65	5.84					
D	-----	-----	87898-1721	87898-1731	-----	87898-1751	17	-----	1	43.18	40.64	10.81	9.65	5.84	D				
	-----	-----	87898-1722	87898-1732	-----	87898-1752	17	-----	2	43.18	40.64	10.81	9.65	5.84					
	-----	-----	87898-1724	87898-1734	-----	87898-1754	17	-----	4	43.18	40.64	10.81	9.65	5.84					
	-----	-----	87898-1725	87898-1735	-----	87898-1755	17	-----	5	43.18	40.64	10.81	9.65	5.84					
	-----	-----	87898-1726	87898-1736	-----	87898-1756	17	-----	6	43.18	40.64	10.81	9.65	5.84					
C	-----	-----	87898-1821	87898-1831	-----	87898-1851	18	-----	1	45.72	43.18	10.81	9.65	5.84	C				
	-----	-----	87898-1822	87898-1832	-----	87898-1852	18	-----	2	45.72	43.18	10.81	9.65	5.84					
	-----	-----	87898-1824	87898-1834	-----	87898-1854	18	-----	4	45.72	43.18	10.81	9.65	5.84					
	-----	-----	87898-1825	87898-1835	-----	87898-1855	18	-----	5	45.72	43.18	10.81	9.65	5.84					
	-----	-----	87898-1826	87898-1836	-----	87898-1856	18	-----	6	45.72	43.18	10.81	9.65	5.84					
B											B								
A											A								
fb_frame_A3_P_AM_T Rev. F 2009/06/18											9	8	7	6	5	4	3	2	1

SEE SHEET 21 EC NO: S2016-0687 DRWN:MRAMAKRI SHINA 2016/02/01 CHKD:MRAMAKRI SHINA 2016/02/01 APPR: JSHWARG 2016/04/13 REV	QUALITY SYMBOLS  $F_A=0$ $F_G=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES	$\pm$ ---	$\pm$ ---	DRAWN BY	DATE	TITLE  CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER	
		3 PLACES	$\pm$ ---	$\pm$ ---	CHECKED BY	DATE		
2 PLACES	$\pm$ 0.2	$\pm$ ---	PTLIM	2005/03/29	MOLEX INCORPORATED			
1 PLACE	$\pm$ ---	$\pm$ ---	APPROVED BY	DATE				
ANGULAR $\pm$ 3 °			MLONG	2010/10/04	DOCUMENT NO. SD-87898-001	SHEET NO. 7 OF 21		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE TABLE					
SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

tb\_frame\_A3\_P\_AM\_T  
Rev. F 2009/06/18

10		9		8		7		6		5		4		3		2		1						
PACKAGING OPTION PART NO.																CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION					
F	TRAY WITHOUT CAP	TRAY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP	A	B	G	F	M													
	-----	-----	87898-2221	87898-2231	-----	-----	22	----	1	55.88	53.34	10.81	9.65	5.84										
	-----	-----	87898-2222	87898-2232	-----	-----	22	----	2	55.88	53.34	10.81	9.65	5.84										
	-----	-----	87898-2224	87898-2234	-----	-----	22	----	4	55.88	53.34	10.81	9.65	5.84										
E	-----	-----	87898-2225	87898-2235	-----	-----	22	----	5	55.88	53.34	10.81	9.65	5.84										
	-----	-----	87898-2226	87898-2236	-----	-----	22	----	6	55.88	53.34	10.81	9.65	5.84										
	-----	-----	87898-2321	87898-2331	-----	-----	23	----	1	58.42	55.88	10.81	9.65	5.84										
	-----	-----	87898-2322	87898-2332	-----	-----	23	----	2	58.42	55.88	10.81	9.65	5.84										
D	-----	-----	87898-2324	87898-2334	-----	-----	23	----	4	58.42	55.88	10.81	9.65	5.84										
	-----	-----	87898-2325	87898-2335	-----	-----	23	----	5	58.42	55.88	10.81	9.65	5.84										
	-----	-----	87898-2326	87898-2336	-----	-----	23	----	6	58.42	55.88	10.81	9.65	5.84										
	-----	-----	87898-2421	87898-2431	-----	-----	24	----	1	60.96	58.42	10.81	9.65	5.84										
C	-----	-----	87898-2422	87898-2432	-----	-----	24	----	2	60.96	58.42	10.81	9.65	5.84										
	-----	-----	87898-2424	87898-2434	-----	-----	24	----	4	60.96	58.42	10.81	9.65	5.84										
	-----	-----	87898-2425	87898-2435	-----	-----	24	----	5	60.96	58.42	10.81	9.65	5.84										
	-----	-----	87898-2426	87898-2436	-----	-----	24	----	6	60.96	58.42	10.81	9.65	5.84										
																QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
mm		INCH		MM ONLY																				
DRAWN BY		DATE		TITLE																				
A	SEE SHEET 21 EC NO: S2016-0687 DRAWN: MRAMAKRI SHINA 2016/02/01 CHKD: MRAMAKRI SHINA 2016/02/01 APPR: ISHWARG 2016/04/13	REV	B14	=0	4 PLACES	± ---	± ---	YLQIAO	2005/03/14	MOLEX INCORPORATED	SD-87898-001	SHEET NO. 9 OF 21												
				=0	3 PLACES	± ---	± ---	CHECKED BY	DATE															
				=0	2 PLACES	± 0.2	± ---	PTLIM	2005/03/29															
					1 PLACE	± ---	± ---	APPROVED BY	DATE															
					ANGULAR ± 3 °		MLONG	2010/10/04																
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					SIZE		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. F 2009/06/18		9		8		7		6		5		4		3		2		1						

10		9		8		7		6		5		4		3		2		1																																																											
PACKAGING OPTION PART NO.																CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION																																																										
F	TRAY WITHOUT CAP	TRAY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP	A	B	G	F	M																																																																		
	-----	-----	87898-2521	87898-2531	-----	-----	25	----	1	63.50	60.96	10.81	9.65	5.84																																																															
	-----	-----	87898-2522	87898-2532	-----	-----	25	----	2	63.50	60.96	10.81	9.65	5.84																																																															
	-----	-----	87898-2524	87898-2534	-----	-----	25	----	4	63.50	60.96	10.81	9.65	5.84																																																															
E	-----	-----	87898-2525	87898-2535	-----	-----	25	----	5	63.50	60.96	10.81	9.65	5.84																																																															
	-----	-----	87898-2526	87898-2536	-----	-----	25	----	6	63.50	60.96	10.81	9.65	5.84																																																															
	-----	-----	87898-2621	87898-2631	-----	-----	26	----	1	66.04	63.50	10.81	9.65	5.84																																																															
D	-----	-----	87898-2622	87898-2632	-----	-----	26	----	2	66.04	63.50	10.81	9.65	5.84																																																															
	-----	-----	87898-2624	87898-2634	-----	-----	26	----	4	66.04	63.50	10.81	9.65	5.84																																																															
	-----	-----	87898-2625	87898-2635	-----	-----	26	----	5	66.04	63.50	10.81	9.65	5.84																																																															
	-----	-----	87898-2626	87898-2636	-----	-----	26	----	6	66.04	63.50	10.81	9.65	5.84																																																															
C																																																																													
	-----	-----	87898-2721	87898-2731	-----	-----	27	----	1	68.58	66.04	10.81	9.65	5.84																																																															
	-----	-----	87898-2722	87898-2732	-----	-----	27	----	2	68.58	66.04	10.81	9.65	5.84																																																															
B	-----	-----	87898-2724	87898-2734	-----	-----	27	----	4	68.58	66.04	10.81	9.65	5.84																																																															
	-----	-----	87898-2725	87898-2735	-----	-----	27	----	5	68.58	66.04	10.81	9.65	5.84																																																															
	-----	-----	87898-2726	87898-2736	-----	-----	27	----	6	68.58	66.04	10.81	9.65	5.84																																																															
A																																																																													
<table><tr><td rowspan="4">SEE SHEET 21 EC NO: S2016-0687 DRAWN:MRAMAKRI SHNA 2016/02/01 CHKD:MRAMAKRI SHNA 2016/02/01 APPR: ISHWARG 2016/04/13</td><td rowspan="4">QUALITY SYMBOLS    </td><td rowspan="4">DESCRIPTION REV</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 colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td><td>DRAWN BY YLQIAO</td><td>DATE 2005/03/14</td><td colspan="2" rowspan="2">TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td><td>CHECKED BY PTLIM</td><td>DATE 2005/03/29</td></tr><tr><td>2 PLACES</td><td>± 0.2</td><td>± ---</td><td>APPROVED BY MLONG</td><td>DATE 2010/10/04</td><td colspan="2" rowspan="2">MOLEX INCORPORATED</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td><td>MATERIAL NO.</td><td>DOCUMENT NO.</td></tr><tr><td colspan="3">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">SEE TABLE</td><td colspan="2">SD-87898-001</td><td colspan="2">SHEET NO. 10 OF 21</td></tr><tr><td colspan="3">B14</td><td colspan="2">SIZE A3</td><td colspan="7">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table>																SEE SHEET 21 EC NO: S2016-0687 DRAWN:MRAMAKRI SHNA 2016/02/01 CHKD:MRAMAKRI SHNA 2016/02/01 APPR: ISHWARG 2016/04/13	QUALITY SYMBOLS    	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION								4 PLACES	± ---	± ---	DRAWN BY YLQIAO	DATE 2005/03/14	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER		3 PLACES	± ---	± ---	CHECKED BY PTLIM	DATE 2005/03/29	2 PLACES	± 0.2	± ---	APPROVED BY MLONG	DATE 2010/10/04	MOLEX INCORPORATED		1 PLACE	± ---	± ---	MATERIAL NO.	DOCUMENT NO.	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87898-001		SHEET NO. 10 OF 21		B14			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
SEE SHEET 21 EC NO: S2016-0687 DRAWN:MRAMAKRI SHNA 2016/02/01 CHKD:MRAMAKRI SHNA 2016/02/01 APPR: ISHWARG 2016/04/13	QUALITY SYMBOLS    	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																																																																				
			4 PLACES	± ---	± ---	DRAWN BY YLQIAO	DATE 2005/03/14	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER																																																																					
			3 PLACES	± ---	± ---	CHECKED BY PTLIM	DATE 2005/03/29																																																																						
2 PLACES	± 0.2	± ---	APPROVED BY MLONG	DATE 2010/10/04	MOLEX INCORPORATED																																																																								
1 PLACE	± ---	± ---	MATERIAL NO.	DOCUMENT NO.																																																																									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87898-001		SHEET NO. 10 OF 21																																																																						
B14			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																																																																								
fb_frame_A3_P_AM_T Rev. F 2009/06/18		9		8		7		6		5		4		3		2		1																																																											

[illegible]

	10	9	8	7	6	5	4	3	2	1									
F	PACKAGING OPTION PART NO.						CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION					F				
	TRAY WITHOUT CAP	TRAY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP				A	B	G	F	M					
	-----	-----	87898-3121	87898-3131	-----	-----	31	-----	1	78.74	76.20	10.81	9.65	5.84					
	-----	-----	87898-3122	87898-3132	-----	-----	31	-----	2	78.74	76.20	10.81	9.65	5.84					
E	-----	-----	87898-3124	87898-3134	-----	-----	31	-----	4	78.74	76.20	10.81	9.65	5.84	E				
	-----	-----	87898-3125	87898-3135	-----	-----	31	-----	5	78.74	76.20	10.81	9.65	5.84					
	-----	-----	87898-3126	87898-3136	-----	-----	31	-----	6	78.74	76.20	10.81	9.65	5.84					
D	-----	-----	87898-3221	87898-3231	-----	-----	32	-----	1	81.28	78.74	10.81	9.65	5.84	D				
	-----	-----	87898-3222	87898-3232	-----	-----	32	-----	2	81.28	78.74	10.81	9.65	5.84					
	-----	-----	87898-3224	87898-3234	-----	-----	32	-----	4	81.28	78.74	10.81	9.65	5.84					
	-----	-----	87898-3225	87898-3235	-----	-----	32	-----	5	81.28	78.74	10.81	9.65	5.84					
C	-----	-----	87898-3226	87898-3236	-----	-----	32	-----	6	81.28	78.74	10.81	9.65	5.84	C				
	-----	-----	87898-3321	87898-3331	-----	-----	33	-----	1	83.82	81.28	10.81	9.65	5.84					
B	-----	-----	87898-3322	87898-3332	-----	-----	33	-----	2	83.82	81.28	10.81	9.65	5.84	B				
	-----	-----	87898-3324	87898-3334	-----	-----	33	-----	4	83.82	81.28	10.81	9.65	5.84					
	-----	-----	87898-3325	87898-3335	-----	-----	33	-----	5	83.82	81.28	10.81	9.65	5.84					
	-----	-----	87898-3326	87898-3336	-----	-----	33	-----	6	83.82	81.28	10.81	9.65	5.84					
A							REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	A				
										MM ONLY									
										DRAWN BY	DATE								
										CHECKED BY	DATE								
						APPROVED BY		DATE	CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER										
						MATERIAL NO.		MOLEX INCORPORATED											
						SEE TABLE		SD-87898-001					SHEET NO. 12 OF 21						
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
fb_frame_A3_P_AM_T Rev. F 2009/06/18											9	8	7	6	5	4	3	2	1



	10	9	8	7	6	5	4	3	2	1						
	PACKAGING OPTION PART NO.						CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION						
F	TRAY WITHOUT CAP	TRAY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP				A	B	G	F	M		F
	-----	-----	87898-3421	87898-3431	-----	-----	34	----	1	86.36	83.82	10.81	9.65	5.84		
	-----	-----	87898-3422	87898-3432	-----	-----	34	----	2	86.36	83.82	10.81	9.65	5.84		
	-----	-----	87898-3424	87898-3434	-----	-----	34	----	4	86.36	83.82	10.81	9.65	5.84		
	-----	-----	87898-3425	87898-3435	-----	-----	34	----	5	86.36	83.82	10.81	9.65	5.84		
	-----	-----	87898-3426	87898-3436	-----	-----	34	----	6	86.36	83.82	10.81	9.65	5.84		
E															E	
	-----	-----	87898-3521	87898-3531	-----	-----	35	----	1	88.90	86.36	10.81	9.65	5.84		
	-----	-----	87898-3522	87898-3532	-----	-----	35	----	2	88.90	86.36	10.81	9.65	5.84		
	-----	-----	87898-3524	87898-3534	-----	-----	35	----	4	88.90	86.36	10.81	9.65	5.84		
	-----	-----	87898-3525	87898-3535	-----	-----	35	----	5	88.90	86.36	10.81	9.65	5.84		
D	-----	-----	87898-3526	87898-3536	-----	-----	35	----	6	88.90	86.36	10.81	9.65	5.84	D	
	-----	-----	87898-3621	87898-3631	-----	-----	36	----	1	91.44	88.90	10.81	9.65	5.84		
	-----	-----	87898-3622	87898-3632	-----	-----	36	----	2	91.44	88.90	10.81	9.65	5.84		
	-----	-----	87898-3624	87898-3634	-----	-----	36	----	4	91.44	88.90	10.81	9.65	5.84		
C	-----	-----	87898-3625	87898-3635	-----	-----	36	----	5	91.44	88.90	10.81	9.65	5.84	C	
	-----	-----	87898-3626	87898-3636	-----	-----	36	----	6	91.44	88.90	10.81	9.65	5.84		
B																B
A																A
		SEE SHEET 21		REV DESCRIPTION QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION		
		EC NO: S2016-0687		DRAWN BY SHINA 2016/02/01		mm INCH		MM ONLY		NTS		METRIC		TITLE		
		CHIKOHRAMAKRI SHINA 2016/02/01		CHECKED BY SHINA 2016/02/01		4 PLACES ± --- ± ---		DRAWN BY YLQIAO DATE 2005/03/14		DATE 2005/03/14		PTLIM 2005/03/29		CUSTOM HEADER		
		APPR: SHWARG 2016/04/13		APPROVED BY SHWARG 2016/04/13		3 PLACES ± --- ± ---		CHECKED BY PTLIM DATE 2005/03/29		DATE 2005/03/29		MLONG 2010/10/04		SINGLE WAFER SMT HEADER		
						2 PLACES ± 0.2 ± ---		APPROVED BY MLONG DATE 2010/10/04		DATE 2010/10/04		MOLEX INCORPORATED		SHEET NO. 13 OF 21		
						1 PLACE ± --- ± ---		MATERIAL NO.		DOCUMENT NO.		SD-87898-001				
		B14		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 3 °		SEE TABLE								
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								
fb_frame_A3_P_AM_T Rev. F 2009/06/18		9	8	7	6	5	4	3	2	1						

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Rev. F 2009/06/18

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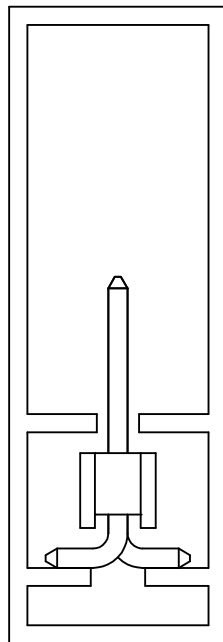
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3

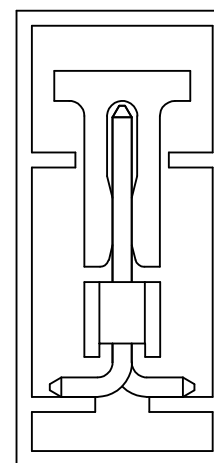
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1

PART WITHOUT CAP  
IN TUBE ORIENTATION



PART WITH CAP  
IN TUBE ORIENTATION



SEE SHEET 21 EC NO: S2016-0687 DRAWN: MRAMAKRI SHINA 2016/02/01 CHKD: MRAMAKRI SHINA 2016/02/01 APPR: JSHWARG 2016/04/13	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY YLQIAO	DATE 2005/03/14	TITLE  CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER  MOLEX INCORPORATED			
			4 PLACES	± ---	± ---	CHECKED BY PTLIM	DATE 2005/03/29				
			3 PLACES	± ---	± ---	APPROVED BY MLONG	DATE 2010/10/04				
			2 PLACES	± 0.2	± ---	MATERIAL NO. SEE TABLE				DOCUMENT NO. SD-87898-001	SHEET NO. 16 OF 21
			1 PLACE	± ---	± ---	SIZE A3				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
B14			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								

9

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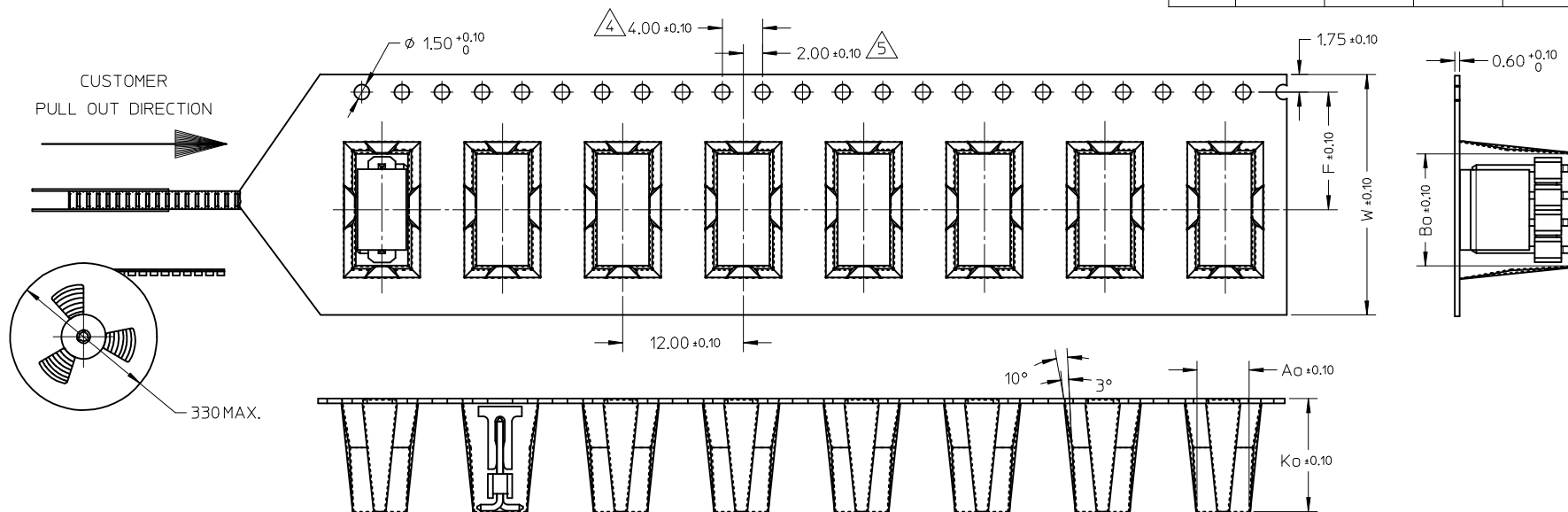
2

1

10 9 8 7 6 5 4 3 2 1

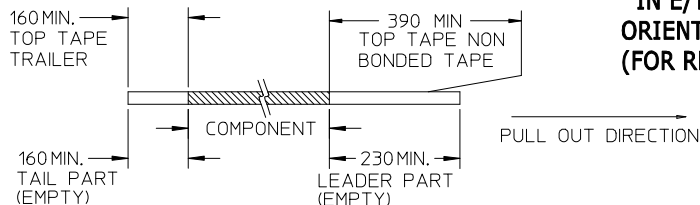
CKT	DIMENSION				
	Bo	Ao	Ko	F	W
2	8.02	5.20	13.60	11.50	24.00
3	8.02	5.20	13.60	11.50	24.00
4	10.55	5.20	11.30	11.50	24.00

## EMBOSSED CARRIER TYPE 'A'

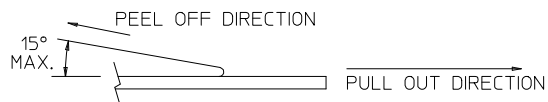


### NOTES:

#### 1. LEADER AND TRAILER TAPE



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

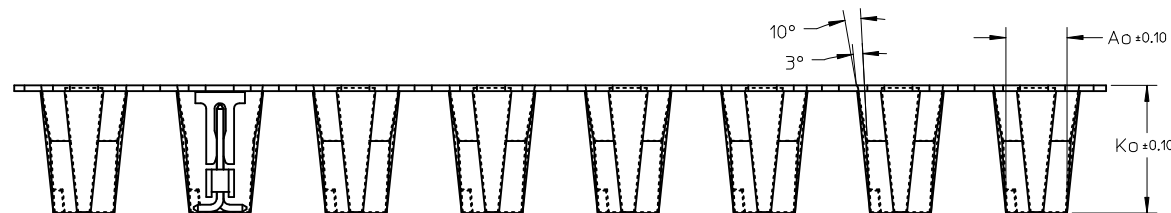
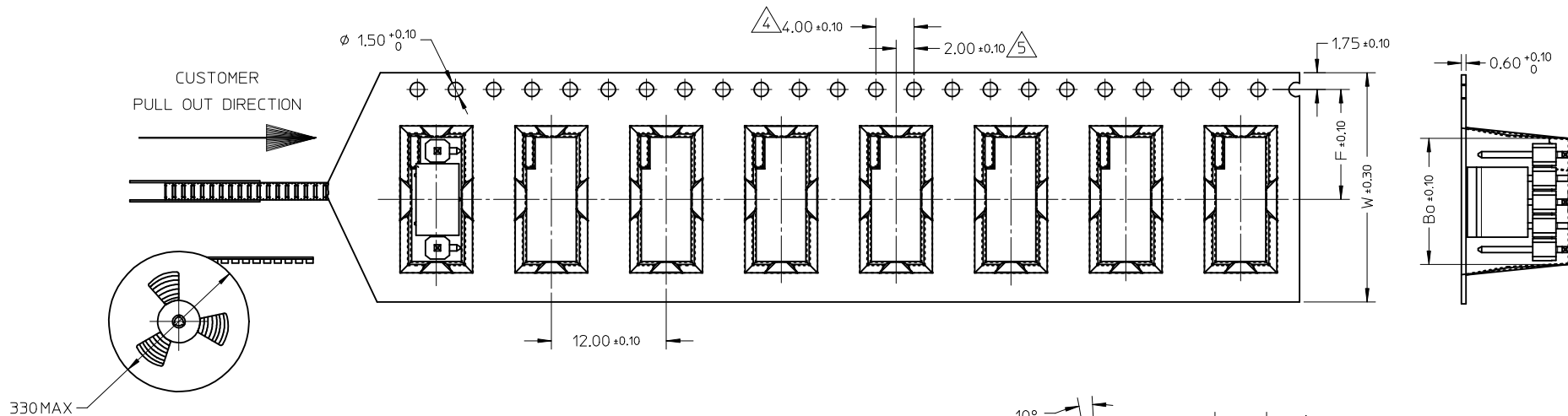


3. MATERIAL: BLACK P.S CONDUCTIVE, BLACK
4. MEASURED FROM CENTRELINE OF SPROCKET HOLE TO CENTRELINE OF SPOCKET
5. CUMULATIVE TOLERANCE OF 10 SPROCKET HOLE IS  $\pm 0.20\text{mm}$
6. AO AND BO ARE MEASURED FROM ABOVE POCKET BASE 0.30mm
7. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
8. TAPE AND REEL QUANTITY : 440PCS/REEL
9. THE TAPE IS TREATED FOR ANTI-STATIC.
10. ALL RADIUS ARE 0.30MM UNLESS SPECIFY
11. SURFACE RESISTIVITY  $10^3$  TO  $10^9$  OHMS.

SEE SHEET 21 EC NO: S2016-0687 DRAWN: RAMAKRISHNA 2016/02/01 CHKD: RAMAKRISHNA 2016/02/01 APPR: SHWARG 2016/04/13	DESCRIPTION	QUALITY SYMBOLS <div><div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div><div><div></div></div><div><div></div></div></div><div><div><div><div></div></div><div><div></div></div></div></div></div></div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY YLOIAO	DATE 2005/03/14	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER				
			4 PLACES	± ---	± ---	CHECKED BY PTLIM	DATE 2005/03/29					
			3 PLACES	± ---	± ---	APPROVED BY MLONG	DATE 2010/10/04					
			2 PLACES	± 0.2	± ---	MATERIAL NO. SEE TABLE			DOCUMENT NO. SD-87898-001			SHEET NO. 17 OF 21
1 PLACE	± ---	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MOLEX INCORPORATED						
REV						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

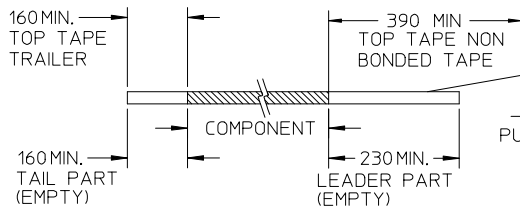
10 9 8 7 6 5 4 3 2 1

CKT	DIMENSION				
	Bo	Ao	Ko	F	W
5	13.10	5.20	11.30	11.50	24.00

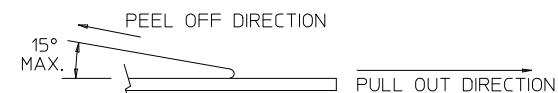


#### NOTES:

##### 1. LEADER AND TRAILER TAPE



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



3. MATERIAL: BLACK P.S CONDUCTIVE, BLACK
4. MEASURED FROM CENTRELINE OF SPROCKET HOLE TO CENTRELINE OF SPOCKET
5. CUMULATIVE TOLERANCE OF 10 SPROCKET HOLE IS  $\pm 0.20\text{mm}$
6. A0 AND B0 ARE MEASURED FROM ABOVE POCKET BASE 0.30mm
7. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
8. TAPE AND REEL QUANTITY : 440PCS/REEL
9. THE TAPE IS TREATED FOR ANTI-STATIC.
10. ALL RADIUS ARE 0.30MM UNLESS SPECIFY
11. SURFACE RESISTIVITY  $10^3$  TO  $10^9$  OHMS.

**PART PACK  
IN E/TAPE  
ORIENTATION  
(FOR REF USE)**

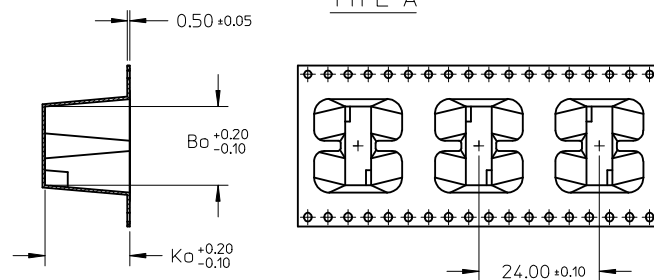
SEE SHEET 21 EC NO: S2016-0687 DRAWN: NRAMAKRI SHNA 2016/02/01 CHKD: NRAMAKRI SHNA 2016/02/01 APPR: ISHWARG 2016/04/13 REV	DESCRIPTION	QUALITY SYMBOLS <div><div><div>F<sub>A</sub></div><div>=0</div></div><div><div>F<sub>B</sub></div><div>=0</div></div><div><div>F<sub>C</sub></div><div>=0</div></div></div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY YLQIAO	DATE 2005/03/14	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER					
			4 PLACES	± ---	± ---	CHECKED BY PTLIM	DATE 2005/03/29						
			3 PLACES	± ---	± ---	APPROVED BY MLONG		DATE 2010/10/04	MOLEX INCORPORATED				
			2 PLACES	± 0.2	± ---								
			1 PLACE	± ---	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87898-001	SHEET NO. 18 OF 21				
			ANGULAR ± 3 °										
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										

9 8 7 6 5 4 3 2 1

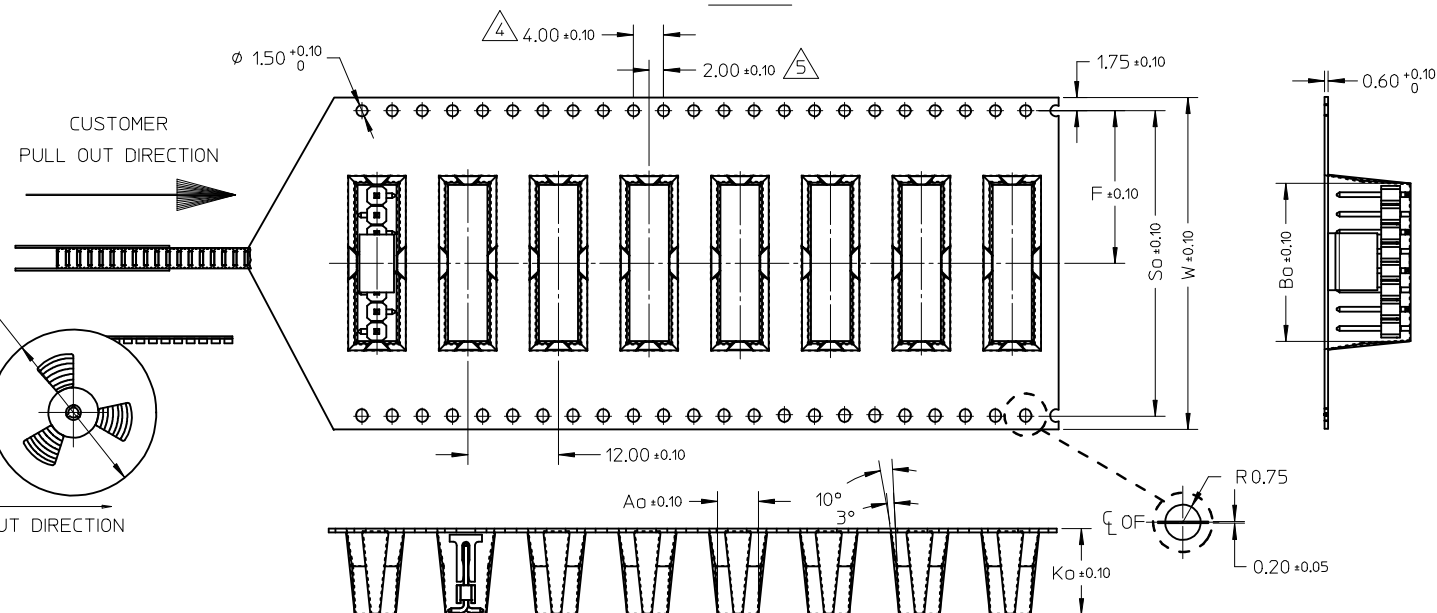
10 9 8 7 6 5 4 3 2 1

CKT	DIMENSION							TYPE	QTY/ REEL
	M	Bo	So	Ao	Ko	F	W		
6	11.50	15.65	28.40	5.20	16.90	14.20	32.00	A	150
6	5.84	15.65	28.40	5.20	11.30	14.20	32.00	B	440
8		20.70	40.40	5.20	11.30	20.20	44.00		
10		25.80	40.40	5.20	11.30	20.20	44.00		
12		30.90	52.40	5.20	11.30	26.20	56.00		
14		35.95	52.40	5.20	11.30	26.20	56.00		
16		41.05	52.40	5.20	11.30	26.20	56.00		
18		46.20	68.40	5.20	11.30	34.20	72.00		
20		51.20	68.40	5.20	11.30	34.20	72.00		

TYPE A



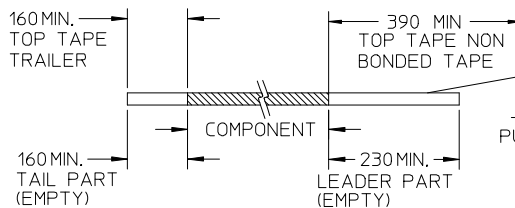
TYPE B



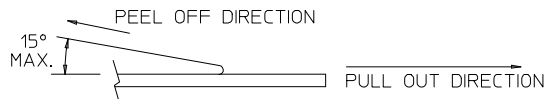
PART PACK IN E/TAPE ORIENTATION(FOR REF USE)

NOTES:

1. LEADER AND TRAILER TAPE



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



3. MATERIAL: BLACK P.S CONDUCTIVE, BLACK

4. MEASURED FROM CENTRELINE OF SPROCKET HOLE TO CENTRELINE OF SPOCKET

5. CUMULATIVE TOLERANCE OF 10 SPROCKET HOLE IS ±0.20mm

6. AO AND BO ARE MEASURED FROM ABOVE POCKET BASE 0.30mm

7. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.

8. TAPE AND REEL QUANTITY : SEE TABLE

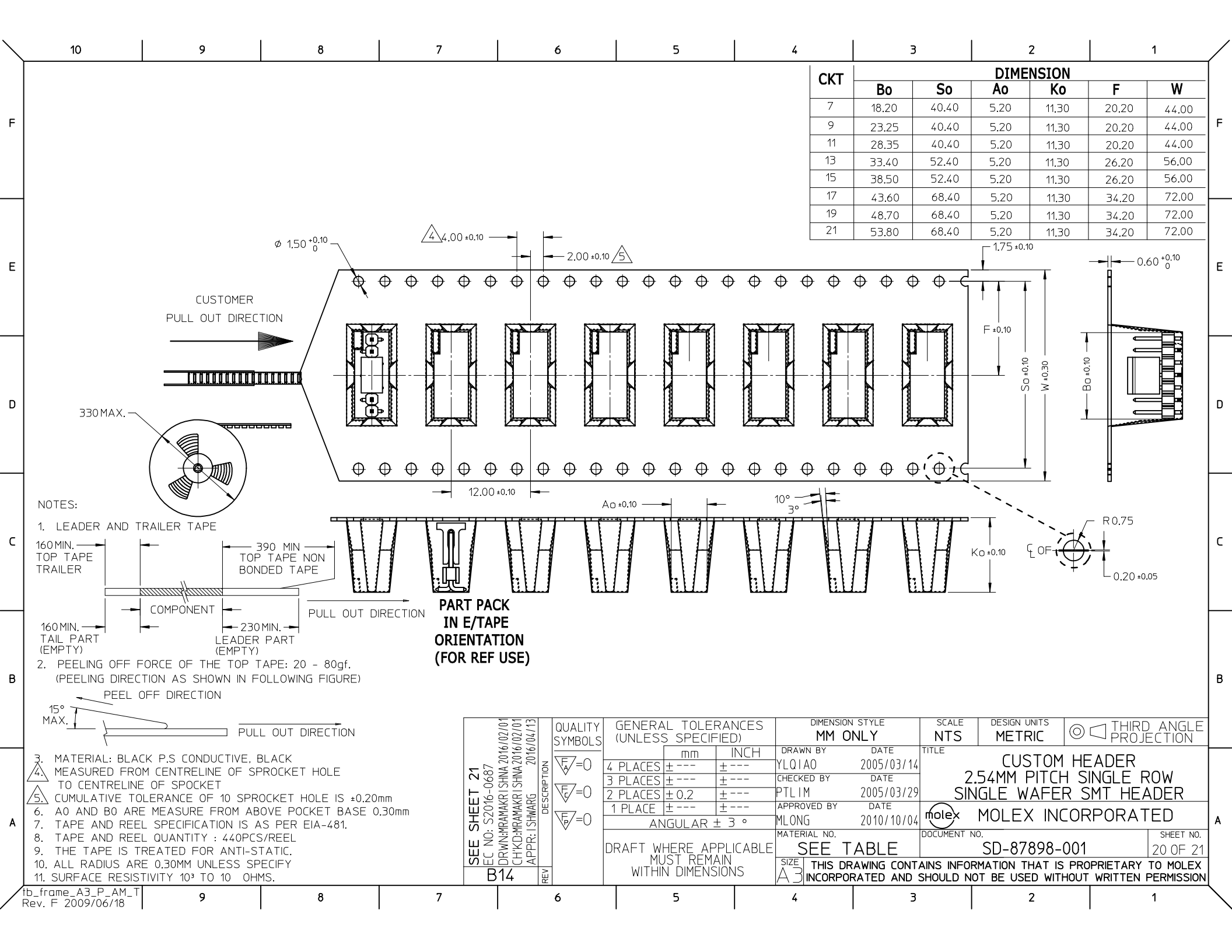
9. THE TAPE IS TREATED FOR ANTI-STATIC.

10. ALL RADIUS ARE 0.30MM UNLESS SPECIFY

11. SURFACE RESISTIVITY 10<sup>3</sup> TO 10 OHMS.

SEE SHEET 21 EC NO: S2016-0687 DRW:MRAMAKRI SHINA 2016/02/01 CHKD:MRAMAKRI SHINA 2016/02/01 APPR: ISHWARG 2016/04/13 REV B14	DESCRIPTION	QUALITY SYMBOLS <div>F<sub>A</sub>=0</div> <div>F<sub>C</sub>=0</div> <div>F<sub>P</sub>=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY YLQIAO	DATE 2005/03/14	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER					
			4 PLACES	± ---	± ---	CHECKED BY	DATE						
			3 PLACES	± ---	± ---	PTLIM	2005/03/29						
			2 PLACES	± 0.2	± ---	APPROVED BY	DATE	MOLEX MOLEX INCORPORATED					
			1 PLACE	± ---	± ---	MLONG	2010/10/04						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
SEE TABLE		SD-87898-001				19 OF 21							
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





F

E

D

C

B

A

F

E

D

C

B

A

10

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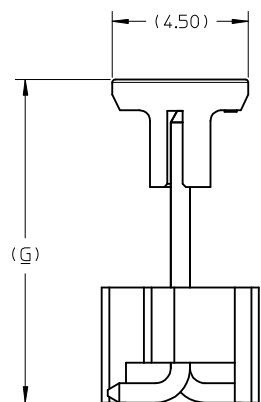
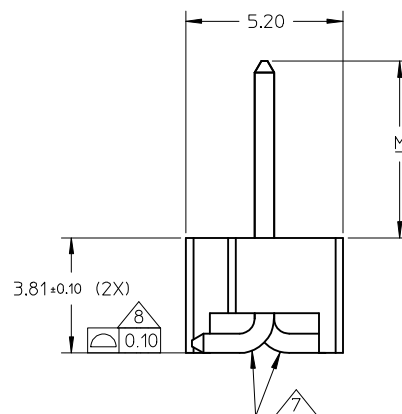
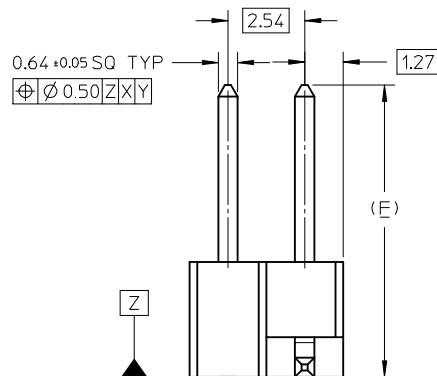
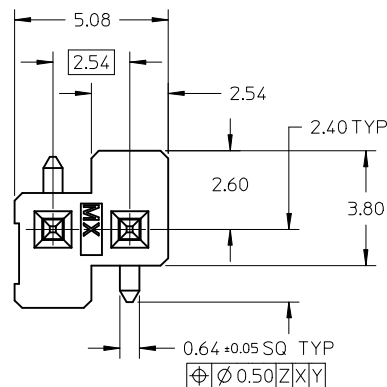
5

4

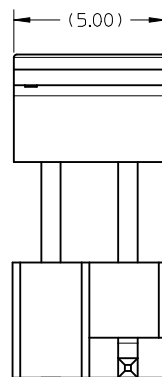
3

2

1



CONN WITH CAP



CONN WITH CAP

## PACKAGING OPTION PART NO.

TRAY WITHOUT CAP	TRAY WITH CAP	TUBE WITHOUT CAP	TUBE WITH CAP	TAPE & REEL WITHOUT CAP	TAPE & REEL WITH CAP	CKT SIZE	PLATING TYPE	DIMENSION		
-----	-----	-----	-----	-----	-----			G	F	M
-----	-----	-----	-----	-----	87898-0218	2	4	10.69	9.65	5.84
-----	-----	-----	-----	-----	87898-0219	2	6	10.69	9.65	5.84

## NOTES:

## 1. MATERIAL:

HSG: LCP, GLASS-FILLED, UL94V-0, COLOR: BLACK  
CAP: NYLON, GLASS-FILLED, UL94V-0, COLOR: BLACK  
PIN: 0.64MM SQ, COPPER ALLOY

## 2. PLATING TYPE:

- (1) GOLD FLASH OVER  
1.25µm MIN. NICKEL OVERALL.
- (2) GOLD FLASH ON CONTACT AND  
2.50µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.
- (4) 0.38µm MIN. GOLD PLATE ON CONTACT AND  
2.00µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.
- (5) 0.75µm MIN. GOLD PLATE ON CONTACT AND  
2.00µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.
- (6) 2.50µm MIN. TIN OVERALL  
1.25µm MIN. NICKEL OVERALL

## 3. PRODUCT SPECIFICATION: PS-87920-019

## 4. PACKAGING TYPE: SEE TABLE

## 5. PACKAGING SPEC:

TUBE WITH CAP VERSION: PK-89990-558

TUBE W/O CAP VERSION: PK-89990-545

EMBOSS TAPE WITH CAP: PK-87898-400





## 6. WAFER TO BE FLAT WITHIN 0.003 mm/mm

7. BEND DEPRESSION IS ACCEPTED SO LONG AS IT DOES NOT  
AFFECT THE OVERALL COPLANARITY OF TAIL

8. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER  
TAIL ON A FLAT SURFACE

9. CAP LOCATION IS CENTERED ALONG THE MATING ENDS AS  
SHOWN. TOP SURFACE OF CAP TO BE FLAT FOR THE  
PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE

10. RECOMMENDED PCB THICKNESS IS 1.60mm±0.10

NEW P/N 87898-0219 ADDED EC NO: S2016-0687 DRAWN: MRAKIRI SHINA 2016/02/01 CHKD: MRAKIRI SHINA 2016/02/01 APPR: SHWARG 2016/04/13	DESCRIPTION	REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION		
						MM ONLY		NTS	METRIC			
				 A=0  F=0  P=0	mm	INCH	DRAWN BY	DATE	TITLE  CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER  <b>molex</b>			
					4 PLACES	± ---	± ---	YLOIAO			2005/03/14	
					3 PLACES	± ---	± ---	CHECKED BY			DATE	
					2 PLACES	± 0.2	± ---	PTLIM			2005/03/29	
					1 PLACE	± ---	± ---	APPROVED BY			DATE	
				0 PLACE	±	±	MLONG	2010/10/04	DOCUMENT NO.  SD-87898-001		SHEET NO.  21 OF 21	
				ANGULAR ± 3 °		MATERIAL NO.						
				DRAFT WHERE APPLICABLE		SEE TABLE						
MUST REMAIN WITHIN DIMENSIONS		SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
		A3										

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