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Part Number: [0878980556](#)
Status: **Active**
Overview: [kk](#)
Description: 2.54mm (.100") Pitch KK® Header, Surface Mount, Breakaway, Vertical, 5 Circuits, 2.50µm (98µ") Tin (Sn) Plating, Tape on Reel Packaging, with Cap, Lead-free

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family PCB Headers
Series [87898](#)
Application Board-to-Board, Wire-to-Board
Overview [kk](#)
Product Name KK®

Physical

Breakaway Yes
Circuits (Loaded) 5
Circuits (maximum) 5
Color - Resin Black
First Mate / Last Break No
Glow-Wire Compliant No
Guide to Mating Part No
Keying to Mating Part None
Lock to Mating Part None
Material - Metal Copper Alloy
Material - Plating Mating Tin
Material - Plating Termination Tin
Material - Resin Nylon
Number of Rows 1
Orientation Vertical
PCB Locator No
PCB Retention None
Packaging Type Embossed Tape on Reel
Pitch - Mating Interface (in) 0.100 In
Pitch - Mating Interface (mm) 2.54 mm
Pitch - Term. Interface (in) 0.100 In
Pitch - Term. Interface (mm) 2.54 mm
Polarized to Mating Part No
Polarized to PCB No
Robotic Placement Pick and Place Cap
Shrouded No
Stackable No
Temperature Range - Operating -55°C to +105°C
Termination Interface: Style Surface Mount

Electrical

Current - Maximum per Contact 3A
Voltage - Maximum 250V

Solder Process Data

Duration at Max. Process Temperature (seconds) 10
Lead-free Process Capability Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature 3
Process Temperature max. C 260

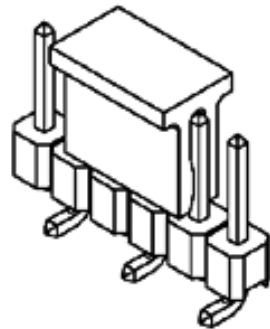


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

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

[87898Series](#)

Mates With

KK® PCB Receptacles [4455](#). SL™ IDT
Housings [70430](#) , [7720](#), [70400](#). C-Grid®
PCB Receptacles [90147](#), [90148](#)

Material Info

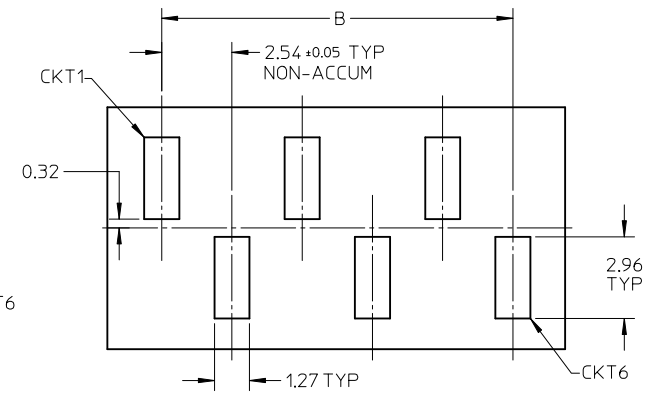
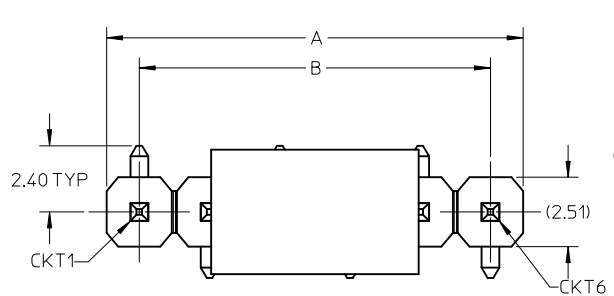
Reference - Drawing Numbers

Packaging Specification	PK-89990-486
Sales Drawing	SD-87898-001

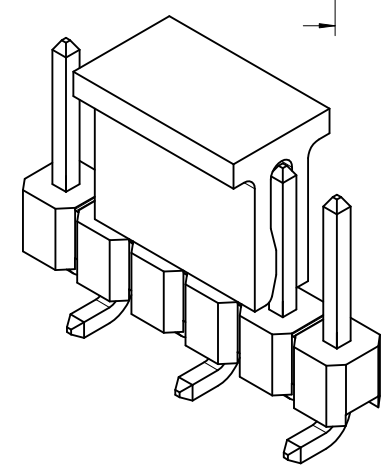
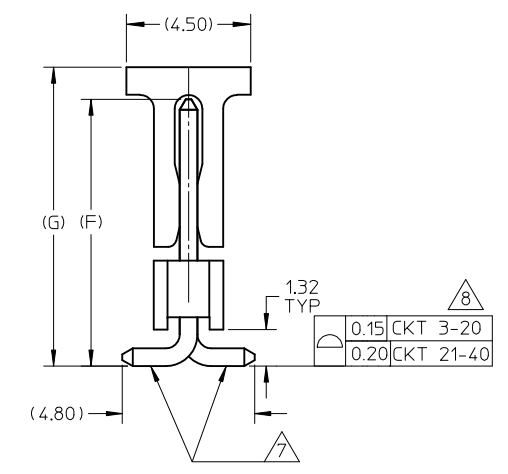
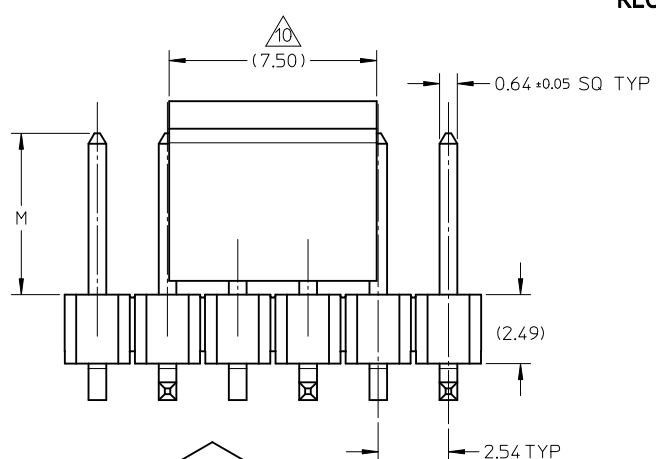
This document was generated on 05/25/2010

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10 9 8 7 6 5 4 3 2 1



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: 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-89990-486

6. WAFER TO BE FLAT WITHIN 0.003 mm/mm

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

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

△ IRREGULAR CIRCUIT CUTOFF WITHIN BREAKAWAY SECTION IS PERMISSIBLE. CUTTING OR CHIPPING OF THE MAIN BODY IS NOT ACCEPTABLE

△ 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

EWR#1228, +0209 EC NO: S2010-0966 DRWN:ATSEE 2010/05/20 CHKD:PTLIM 2005/03/29 APPR:MLONG 2010/06/08 B3			DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
F _A =0				mm	INCH	DRAWN BY YLOIAO	DATE 2005/03/14	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER				
F _B =0		4 PLACES		± ---	± ---	CHECKED BY PTLIM	DATE 2005/03/29					
F _C =0		3 PLACES		± ---	± ---	APPROVED BY MLONG	DATE 2010/03/10	MOLEX INCORPORATED				
F _D =0		2 PLACES		± 0.2	± ---							
		1 PLACE		± ---	± ---							
		ANGULAR ± 3 °										
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87898-001		SHEET NO. 1 OF 20				
				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

	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																																			
	-----	-----	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																																			
	-----	-----	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																																			
	E																																																
-----		-----	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																																			
-----		-----	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																																			
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		-----	-----	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																																		
		-----	-----	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																																		
		C																																															
	-----		-----	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																																		
	-----		-----	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																																		
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<table><tr><td rowspan="5">EWR#1228, +0209 EC NO: S2010-0966 DRWN:ATSE 2010/05/20 CHKD:PTLM 2005/03/29 APPR:MLONG 2010/06/08 B3</td><td rowspan="5">QUALITY SYMBOLS F=0 F=0 F=0</td><td rowspan="5">GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.2 ± --- 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>DRAWN BY YLQIAO</td><td>DATE 2005/03/14</td><td colspan="4" rowspan="2">TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER</td></tr><tr><td>CHECKED BY PTLIM</td><td>DATE 2005/03/29</td></tr><tr><td>APPROVED BY MLONG</td><td>DATE 2010/03/10</td><td colspan="4" rowspan="2">MOLEX INCORPORATED</td></tr><tr><td colspan="2">MATERIAL NO.</td><td>DOCUMENT NO. SD-87898-001</td><td>SHEET NO. 3 OF 20</td></tr><tr><td colspan="2">SIZE A3</td><td colspan="10">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table>											EWR#1228, +0209 EC NO: S2010-0966 DRWN:ATSE 2010/05/20 CHKD:PTLM 2005/03/29 APPR:MLONG 2010/06/08 B3	QUALITY SYMBOLS F=0 F=0 F=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.2 ± --- 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 2005/03/14	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER				CHECKED BY PTLIM	DATE 2005/03/29	APPROVED BY MLONG	DATE 2010/03/10	MOLEX INCORPORATED				MATERIAL NO.		DOCUMENT NO. SD-87898-001	SHEET NO. 3 OF 20	SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
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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									
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					
	-----	-----	87898-0721	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					
E	-----	-----	87898-0726	87898-0736	-----	87898-0756	7	-----	6	17.78	15.24	10.81	9.65	5.84					
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D	-----	-----	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					
	-----	-----	87898-0826	87898-0836	-----	87898-0856	8	-----	6	20.32	17.78	10.81	9.65	5.84					
C	-----	-----	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					
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	-----	-----	87898-0926	87898-0936	-----	87898-0956	9	-----	6	22.86	20.32	10.81	9.65	5.84					
B																			
A																			
fb_frame_A3_P_AM_T Rev. F 2009/06/18											9	8	7	6	5	4	3	2	1

EWR#1228, +0209 EC NO: S2010-0966 DRWN:ATSEE 2010/05/20 CHKD:PTLIM 2005/03/29 APPR:MLONG 2010/06/08 B3	QUALITY SYMBOLS 	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER		
			4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm INCH	± --- ± --- ± 0.2 ± ---	± --- ± --- ± --- ± ---	DRAWN BY YLOIAO	DATE 2005/03/14			DOCUMENT NO. SD-87898-001	SHEET NO. 4 OF 20
							CHECKED BY PTLIM	DATE 2005/03/29				
							APPROVED BY MLONG	DATE 2010/03/10				
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							

		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							
	-----	-----	87898-1021	87898-1031	-----	87898-1051	10				-----	1	25.40	22.86	10.81						
	-----	-----	87898-1022	87898-1032	-----	87898-1052	10	-----	2	25.40	22.86	10.81	9.65	5.84							
	-----	-----	87898-1024	87898-1034	-----	87898-1054	10	-----	4	25.40	22.86	10.81	9.65	5.84							
	-----	-----	87898-1025	87898-1035	-----	87898-1055	10	-----	5	25.40	22.86	10.81	9.65	5.84							
	-----	-----	87898-1026	87898-1036	-----	87898-1056	10	-----	6	25.40	22.86	10.81	9.65	5.84							
E																					
	-----	-----	87898-1121	87898-1131	-----	87898-1151	11	-----	1	27.94	25.40	10.81	9.65	5.84							
	-----	-----	87898-1122	87898-1132	-----	87898-1152	11	-----	2	27.94	25.40	10.81	9.65	5.84							
D	-----	-----	87898-1124	87898-1134	-----	87898-1154	11	-----	4	27.94	25.40	10.81	9.65	5.84							
	-----	-----	87898-1125	87898-1135	-----	87898-1155	11	-----	5	27.94	25.40	10.81	9.65	5.84							
	-----	-----	87898-1126	87898-1136	-----	87898-1156	11	-----	6	27.94	25.40	10.81	9.65	5.84							
	-----	-----	87898-1221	87898-1231	-----	87898-1251	12	-----	1	30.48	27.94	10.81	9.65	5.84							
C	-----	-----	87898-1222	87898-1232	-----	87898-1252	12	-----	2	30.48	27.94	10.81	9.65	5.84							
	-----	-----	87898-1224	87898-1234	-----	87898-1254	12	-----	4	30.48	27.94	10.81	9.65	5.84							
	-----	-----	87898-1225	87898-1235	-----	87898-1255	12	-----	5	30.48	27.94	10.81	9.65	5.84							
	-----	-----	87898-1226	87898-1236	-----	87898-1256	12	-----	6	30.48	27.94	10.81	9.65	5.84							
B																					
A																					
fb_frame_A3_P_AM_T Rev. F 2009/06/18		9		8		7		6		5		4		3		2		1			

EWR#1228, +0209 EC NO: S2010-0966 DRWN:ATSE 2010/05/20 CHKD:PTLIM 2005/03/29 APPR:MLONG 2010/06/08	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		 			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 2010/03/10		
			2 PLACES	± 0.2	± ---	MATERIAL NO.		DOCUMENT NO.		
1 PLACE	± ---	± ---	SEE TABLE		SD-87898-001		SHEET NO. 5 OF 20			
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						

	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	
	-----	-----	87898-1321	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															
ib_frame_A3_P_AM_T Rev. F 2009/06/18							9	8	7	6	5	4	3	2	1

EWR#1228, +0209 EC NO: S2010-0966 DRWN:ATSEE 2010/05/20 CHKD:PTLIM 2005/03/29 APPR:MLONG 2010/06/08 B3	DESCRIPTION REV	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			4 PLACES	± ---	± ---	DRAWN BY YLOIAO DATE 2005/03/14		TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER				
			3 PLACES	± ---	± ---	CHECKED BY DATE						
			2 PLACES	± 0.2	± ---	PTLIM 2005/03/29		MOLEX INCORPORATED				
			1 PLACE	± ---	± ---	APPROVED BY DATE 2010/03/10						
		ANGULAR ± 3 °				MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE TABLE		SD-87898-001		6 OF 20		
						SIZE A3		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	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	
	-----	-----	87898-1621	87898-1631	-----	87898-1651				16	-----	1	40.64	38.10	
	-----	-----	87898-1622	87898-1632	-----	87898-1652	16	-----	2	40.64	38.10	10.81	9.65	5.84	
	-----	-----	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	
E															
	-----	-----	87898-1721	87898-1731	-----	87898-1751	17	-----	1	43.18	40.64	10.81	9.65	5.84	
	-----	-----	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	
	-----	-----	87898-1821	87898-1831	-----	87898-1851	18	-----	1	45.72	43.18	10.81	9.65	5.84	
	-----	-----	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	
	</														

[illegible]

	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		
	-----	-----	87898-2521	87898-2531	-----	-----				25	-----	1	63.50	60.96		10.81
	-----	-----	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		
	-----	-----	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		
E																
	-----	-----	87898-2621	87898-2631	-----	-----	26	-----	1	66.04	63.50	10.81	9.65	5.84		
	-----	-----	87898-2622	87898-2632	-----	-----	26	-----	2	66.04	63.50	10.81	9.65	5.84		
D	-----	-----	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		
	-----	-----	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		
B																B
A																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			
	-----	-----	87898-2821	87898-2831	-----	-----	28	-----	1	71.12	68.58	10.81	9.65	5.84			
	-----	-----	87898-2822	87898-2832	-----	-----	28	-----	2	71.12	68.58	10.81	9.65	5.84			
	-----	-----	87898-2824	87898-2834	-----	-----	28	-----	4	71.12	68.58	10.81	9.65	5.84			
	-----	-----	87898-2825	87898-2835	-----	-----	28	-----	5	71.12	68.58	10.81	9.65	5.84			
	-----	-----	87898-2826	87898-2836	-----	-----	28	-----	6	71.12	68.58	10.81	9.65	5.84			
E																	
	-----	-----	87898-2921	87898-2931	-----	-----	29	-----	1	73.66	71.12	10.81	9.65	5.84			
	-----	-----	87898-2922	87898-2932	-----	-----	29	-----	2	73.66	71.12	10.81	9.65	5.84			
	-----	-----	87898-2924	87898-2934	-----	-----	29	-----	4	73.66	71.12	10.81	9.65	5.84			
	-----	-----	87898-2925	87898-2935	-----	-----	29	-----	5	73.66	71.12	10.81	9.65	5.84			
D	-----	-----	87898-2926	87898-2936	-----	-----	29	-----	6	73.66	71.12	10.81	9.65	5.84			
	-----	-----	87898-3021	87898-3031	-----	-----	30	-----	1	76.20	73.66	10.81	9.65	5.84			
	-----	-----	87898-3022	87898-3032	-----	-----	30	-----	2	76.20	73.66	10.81	9.65	5.84			
	-----	-----	87898-3024	87898-3034	-----	-----	30	-----	4	76.20	73.66	10.81	9.65	5.84			
C	-----	-----	87898-3025	87898-3035	-----	-----	30	-----	5	76.20	73.66	10.81	9.65	5.84			
	-----	-----	87898-3026	87898-3036	-----	-----	30	-----	6	76.20	73.66	10.81	9.65	5.84			
B																B	
A							REV B3	DESCRIPTION EWR#1228, +0209 EC NO: S2010-0966 2010/05/20 DRWN:ATSEE CHKD:PTLIM 2005/03/29 APPR:MLONG 2010/06/08	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	A
										4 PLACES 3 PLACES 2 PLACES 1 PLACE ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	mm INCH	DRAWN BY YLQIAO CHECKED BY PTLIM APPROVED BY MLONG MATERIAL NO. SEE TABLE	DATE 2005/03/14 DATE 2005/03/29 DATE 2010/03/10	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER MOLEX INCORPORATED			
											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																																					
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																																	
E	-----	-----	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																																	
	-----	-----	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																																	
	-----	-----	87898-3226	87898-3236	-----	-----	32	----	6	81.28	78.74	10.81	9.65	5.84																																	
C															C																																
	-----	-----	87898-3321	87898-3331	-----	-----	33	----	1	83.82	81.28	10.81	9.65	5.84																																	
	-----	-----	87898-3322	87898-3332	-----	-----	33	----	2	83.82	81.28	10.81	9.65	5.84																																	
	-----	-----	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																																	
B	-----	-----	87898-3326	87898-3336	-----	-----	33	----	6	83.82	81.28	10.81	9.65	5.84	B																																
A															A																																
EWR#1228, +0209 EC NO: S2010-0966 DRWN:ATSEE 2010/05/20 CHKD:PTLIM 2005/03/29 APPR:MLONG 2010/06/08 DESCRIPTION REV							QUALITY SYMBOLS $\nabla_A=0$ $\nabla_G=0$ $\nabla_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED) <table> <tr> <td></td><td>mm</td><td>INCH</td></tr> <tr> <td>4 PLACES</td><td>± ---</td><td>± ---</td></tr> <tr> <td>3 PLACES</td><td>± ---</td><td>± ---</td></tr> <tr> <td>2 PLACES</td><td>± 0.2</td><td>± ---</td></tr> <tr> <td>1 PLACE</td><td>± ---</td><td>± ---</td></tr> <tr> <td colspan="3">ANGULAR ± 3 °</td></tr> </table> DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		mm	INCH	4 PLACES	± ---	± ---		3 PLACES	± ---	± ---	2 PLACES	± 0.2	± ---	1 PLACE	± ---	± ---	ANGULAR ± 3 °			DIMENSION STYLE MM ONLY <table> <tr> <td>DRAWN BY</td><td>DATE</td></tr> <tr> <td>YLOIAO</td><td>2005/03/14</td></tr> <tr> <td>CHECKED BY</td><td>DATE</td></tr> <tr> <td>PTLIM</td><td>2005/03/29</td></tr> <tr> <td>APPROVED BY</td><td>DATE</td></tr> <tr> <td>MLONG</td><td>2010/03/10</td></tr> </table> MATERIAL NO. SEE TABLE	DRAWN BY	DATE	YLOIAO	2005/03/14	CHECKED BY	DATE	PTLIM	2005/03/29	APPROVED BY	DATE	MLONG	2010/03/10	SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER MOLEX INCORPORATED DOCUMENT NO. SD-87898-001 SHEET NO. 12 OF 20	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
	mm	INCH																																													
4 PLACES	± ---	± ---																																													
3 PLACES	± ---	± ---																																													
2 PLACES	± 0.2	± ---																																													
1 PLACE	± ---	± ---																																													
ANGULAR ± 3 °																																															
DRAWN BY	DATE																																														
YLOIAO	2005/03/14																																														
CHECKED BY	DATE																																														
PTLIM	2005/03/29																																														
APPROVED BY	DATE																																														
MLONG	2010/03/10																																														
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																																																															
	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	-----	-----	87898-3721	87898-3731	-----	-----	37	-----	1	93.98	91.44	10.81	9.65	5.84	F																																																										
	-----	-----	87898-3722	87898-3732	-----	-----	37	-----	2	93.98	91.44	10.81	9.65	5.84																																																											
	-----	-----	87898-3724	87898-3734	-----	-----	37	-----	4	93.98	91.44	10.81	9.65	5.84																																																											
	-----	-----	87898-3725	87898-3735	-----	-----	37	-----	5	93.98	91.44	10.81	9.65	5.84																																																											
	-----	-----	87898-3726	87898-3736	-----	-----	37	-----	6	93.98	91.44	10.81	9.65	5.84																																																											
E															E																																																										
	-----	-----	87898-3821	87898-3831	-----	-----	38	-----	1	96.52	93.98	10.81	9.65	5.84																																																											
	-----	-----	87898-3822	87898-3832	-----	-----	38	-----	2	96.52	93.98	10.81	9.65	5.84																																																											
	-----	-----	87898-3824	87898-3834	-----	-----	38	-----	4	96.52	93.98	10.81	9.65	5.84																																																											
	-----	-----	87898-3825	87898-3835	-----	-----	38	-----	5	96.52	93.98	10.81	9.65	5.84																																																											
D	-----	-----	87898-3826	87898-3836	-----	-----	38	-----	6	96.52	93.98	10.81	9.65	5.84	D																																																										
	-----	-----	87898-3921	87898-3931	-----	-----	39	-----	1	99.06	96.52	10.81	9.65	5.84																																																											
	-----	-----	87898-3922	87898-3932	-----	-----	39	-----	2	99.06	96.52	10.81	9.65	5.84																																																											
	-----	-----	87898-3924	87898-3934	-----	-----	39	-----	4	99.06	96.52	10.81	9.65	5.84																																																											
C	-----	-----	87898-3925	87898-3935	-----	-----	39	-----	5	99.06	96.52	10.81	9.65	5.84	C																																																										
	-----	-----	87898-3926	87898-3936	-----	-----	39	-----	6	99.06	96.52	10.81	9.65	5.84																																																											
B															B																																																										
A															A																																																										
<table><tr><td rowspan="5">EWR#1228, +0209 EC NO: S2010-0966 DRWN:ATSEE 2010/05/20 CHKDPTLIM 2005/03/29 APPR:MLONG 2010/06/08 B3</td><td rowspan="5">DESCRIPTION REV</td><td>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 colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td rowspan="4">$\nabla=0$ $\nabla=0$ $\nabla=0$</td><td></td><td></td><td>DRAWN BY</td><td>DATE</td><td rowspan="4">TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER MOLEX INCORPORATED SD-87898-001</td></tr><tr><td>4 PLACES</td><td>$\pm \text{---}$</td><td>$\pm \text{---}$</td><td>YLQIAO</td><td>2005/03/14</td></tr><tr><td>3 PLACES</td><td>$\pm \text{---}$</td><td>$\pm \text{---}$</td><td>CHECKED BY</td><td>DATE</td></tr><tr><td>2 PLACES</td><td>± 0.2</td><td>$\pm \text{---}$</td><td>PTLIM</td><td>2005/03/29</td></tr><tr><td></td><td></td><td></td><td>1 PLACE</td><td>$\pm \text{---}$</td><td>$\pm \text{---}$</td><td>APPROVED BY</td><td>DATE</td><td rowspan="2">MATERIAL NO.</td><td rowspan="2">DOCUMENT NO.</td><td rowspan="2">SHEET NO.</td></tr><tr><td colspan="3">ANGULAR $\pm 3^\circ$</td><td>MLONG</td><td>2010/03/10</td></tr><tr><td colspan="3">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">SEE TABLE</td><td colspan="6">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table>															EWR#1228, +0209 EC NO: S2010-0966 DRWN:ATSEE 2010/05/20 CHKDPTLIM 2005/03/29 APPR:MLONG 2010/06/08 B3	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		$\nabla=0$ $\nabla=0$ $\nabla=0$			DRAWN BY	DATE	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER MOLEX INCORPORATED SD-87898-001	4 PLACES	$\pm \text{---}$	$\pm \text{---}$	YLQIAO	2005/03/14	3 PLACES	$\pm \text{---}$	$\pm \text{---}$	CHECKED BY	DATE	2 PLACES	± 0.2	$\pm \text{---}$	PTLIM	2005/03/29				1 PLACE	$\pm \text{---}$	$\pm \text{---}$	APPROVED BY	DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	ANGULAR $\pm 3^\circ$			MLONG	2010/03/10	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					
EWR#1228, +0209 EC NO: S2010-0966 DRWN:ATSEE 2010/05/20 CHKDPTLIM 2005/03/29 APPR:MLONG 2010/06/08 B3	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																																																																
		$\nabla=0$ $\nabla=0$ $\nabla=0$			DRAWN BY	DATE	TITLE CUSTOM HEADER 2.54MM PITCH SINGLE ROW SINGLE WAFER SMT HEADER MOLEX INCORPORATED SD-87898-001																																																																		
			4 PLACES	$\pm \text{---}$	$\pm \text{---}$	YLQIAO		2005/03/14																																																																	
			3 PLACES	$\pm \text{---}$	$\pm \text{---}$	CHECKED BY		DATE																																																																	
			2 PLACES	± 0.2	$\pm \text{---}$	PTLIM		2005/03/29																																																																	
			1 PLACE	$\pm \text{---}$	$\pm \text{---}$	APPROVED BY	DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.																																																															
ANGULAR $\pm 3^\circ$			MLONG	2010/03/10																																																																					
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																																																																				
<table><tr><td colspan="2">fb_frame_A3_P_AM_T Rev. F 2009/06/18</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr></table>															fb_frame_A3_P_AM_T Rev. F 2009/06/18		9	8	7	6	5	4	3	2	1																																																
fb_frame_A3_P_AM_T Rev. F 2009/06/18		9	8	7	6	5	4	3	2	1																																																															

tb_frame_A3_P_AM_T
Rev. F 2009/06/18

10

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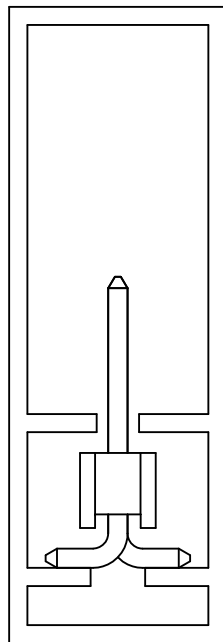
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3

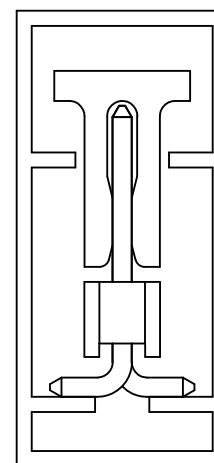
2

1

PART WITHOUT CAP
IN TUBE ORIENTATION



PART WITH CAP
IN TUBE ORIENTATION



EWR#1228, +0209 EC NO: S2010-0966 2010/05/20 DRWN:ATSEE CHKD:PTLIM 2005/03/29 APPR:MLONG 2010/06/08	DESCRIPTION REV	QUALITY SYMBOLS ▽_A=0 ▽_B=0 ▽_C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
					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 2010/03/10						
			2 PLACES	± 0.2	± ---	MATERIAL NO. SEE TABLE				DOCUMENT NO. SD-87898-001		SHEET NO. 16 OF 20	
			1 PLACE	± ---	± ---								
B3			ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								

9

8

7

6

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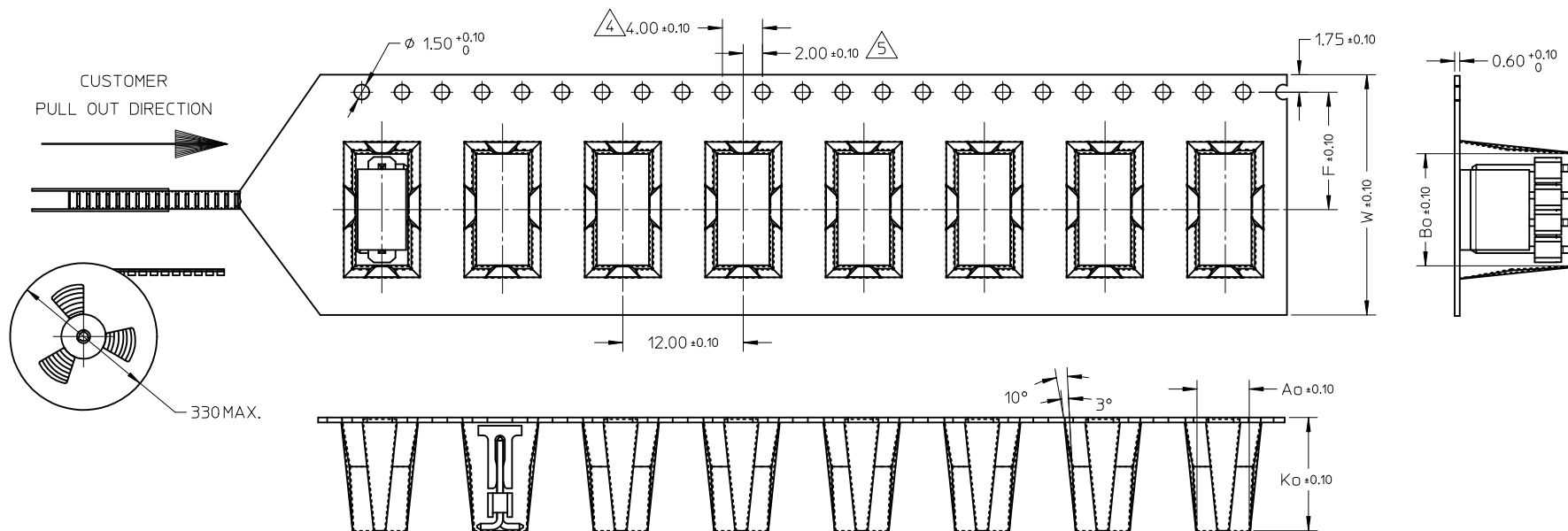
2

1

10 9 8 7 6 5 4 3 2 1

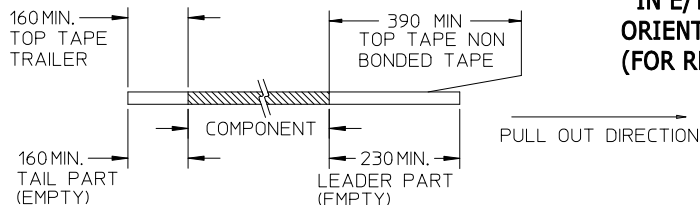
CKT	DIMENSION				
	Bo	Ao	Ko	F	W
2	8.02	5.20	13.60	11.50	24.00
4	10.55	5.20	11.30	11.50	24.00

EMBOSSED CARRIER TYPE 'A'

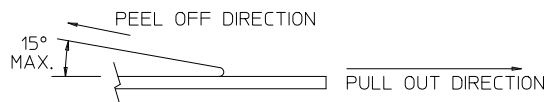


NOTES:

1. LEADER AND TRAILER TAPE



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



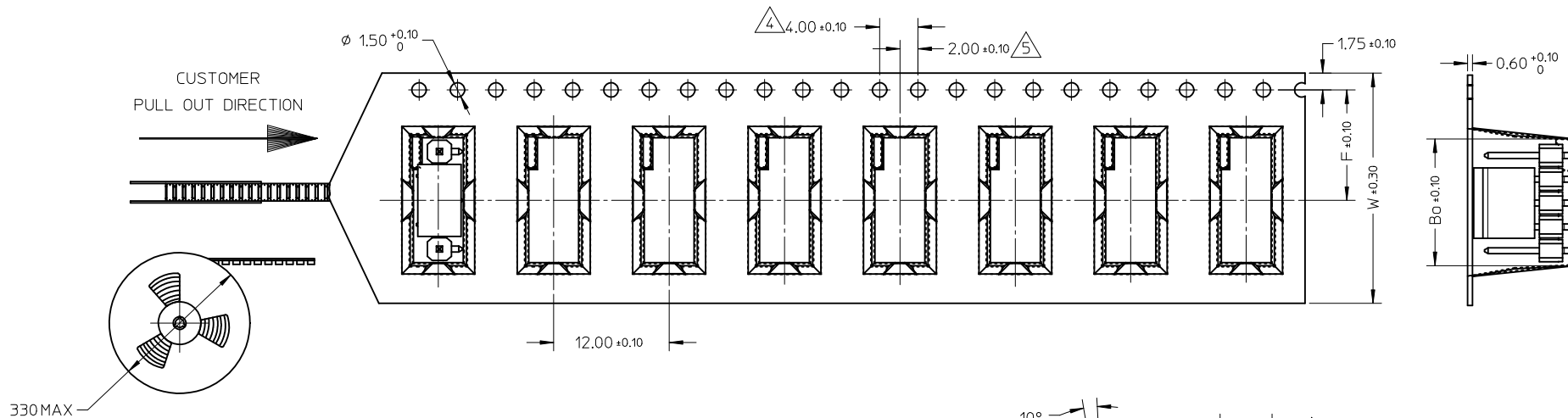
- MATERIAL: BLACK P.S CONDUCTIVE, BLACK
- MEASURED FROM CENTRELINE OF SPROCKET HOLE TO CENTRELINE OF SPOCKET
- CUMULATIVE TOLERANCE OF 10 SPROCKET HOLE IS $\pm 0.20\text{mm}$
- A0 AND B0 ARE MEASURED FROM ABOVE POCKET BASE 0.30mm
- TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
- TAPE AND REEL QUANTITY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

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

EWR#1228, +0209 EC NO: S2010-0966 DRWN:ATSEE CHKD:PTLIM APPR:MLONG REV B3	DESCRIPTION	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				
			4 PLACES	± ---	± ---	CHECKED BY PTLIM					DATE 2005/03/29
			3 PLACES	± ---	± ---	APPROVED BY MLONG					DATE 2010/03/10
			2 PLACES	± 0.2	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
1 PLACE	± ---	± ---	SEE TABLE		SD-87898-001		17 OF 20				
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						

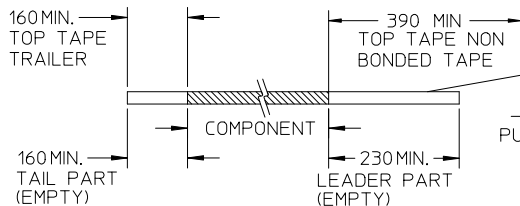
10 9 8 7 6 5 4 3 2 1

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

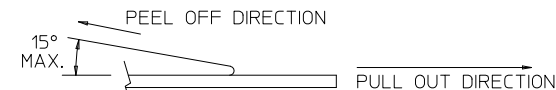


NOTES:

1. LEADER AND TRAILER TAPE



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

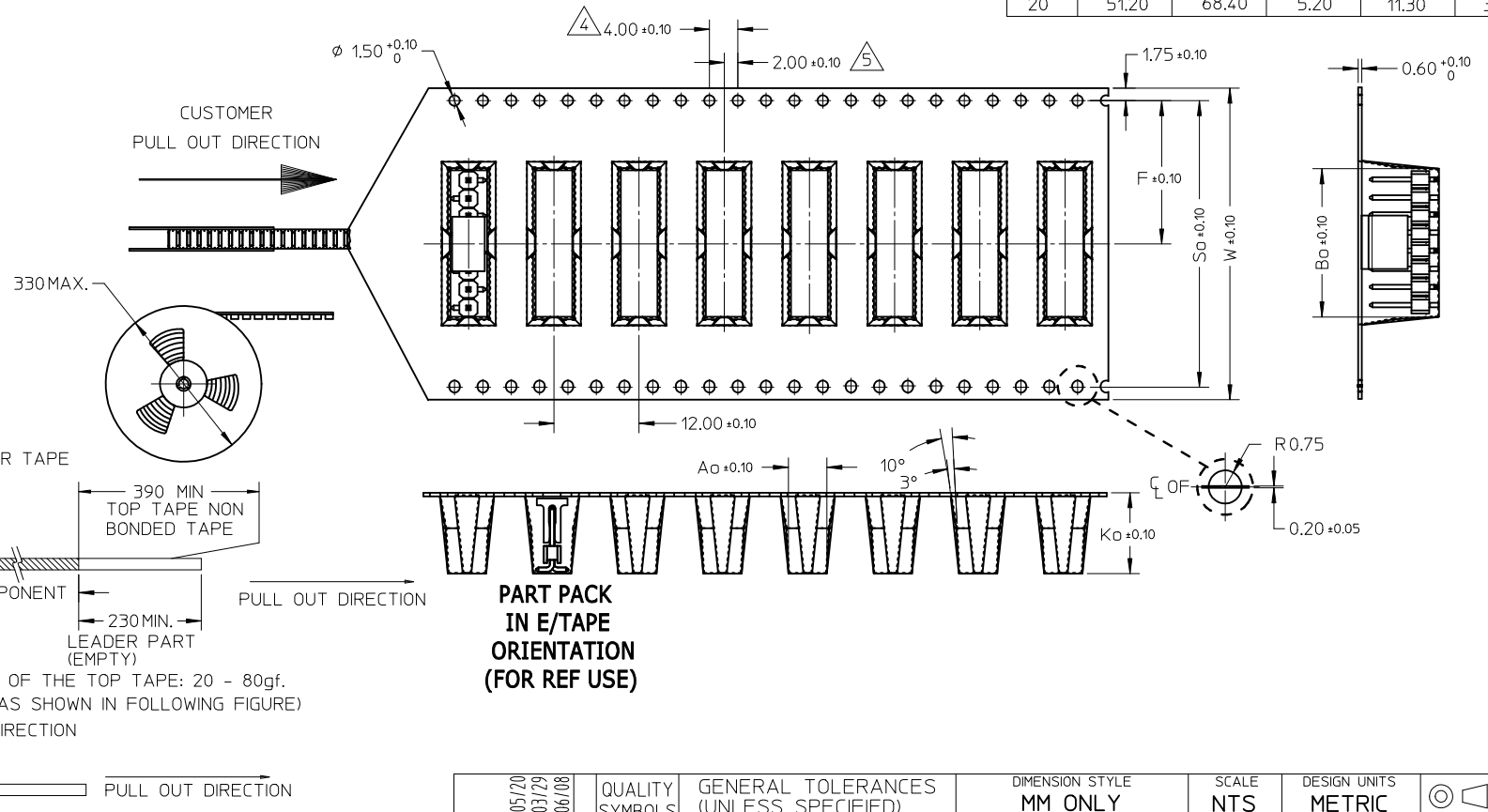


3. MATERIAL: BLACK P.S CONDUCTIVE, BLACK
4. MEASURED FROM CENTRELINE OF SPROCKET HOLE TO CENTRELINE OF SPOCKET
5. CUMULATIVE TOLERANCE OF 10 SPROCKET HOLE IS $\pm 0.20\text{mm}$
6. A0 AND B0 ARE MEASURED FROM ABOVE POCKET BASE 0.30mm
7. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
8. TAPE AND REEL 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)

EWR#1228, +0209 EC NO: S2010-0966 DRAWN:ATSEE CHKD:PTL IM APPR:MLONG	2010/05/20 2005/03/29 2010/06/08	DESCRIPTION	QUALITY SYMBOLS F_A=0 F_C=0 F_P=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 ± --- ± ---		YLO1A0 2005/03/14						
				3 PLACES ± --- ± ---		CHECKED BY DATE						
				2 PLACES ± 0.2 ± ---		PTL IM 2005/03/29		MOLEX INCORPORATED				
				1 PLACE ± --- ± ---		APPROVED BY DATE						
				ANGULAR ± 3 °		MLONG 2010/03/10						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
				SEE TABLE		SD-87898-001		18 OF 20				
B3	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

CKT	DIMENSION					
	Bo	So	Ao	Ko	F	W
6	15.65	28.40	5.20	11.30	14.20	32.00
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



- NOTES:
- 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)
PULL OUT DIRECTION
 - PEELING OFF FORCE OF THE TOP TAPE: 20 - 80gf.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)
PEEL OFF DIRECTION
15° MAX.
 - MATERIAL: BLACK P.S CONDUCTIVE, BLACK

- MEASURED FROM CENTRELINE OF SPROCKET HOLE TO CENTRELINE OF SPOCKET
- CUMULATIVE TOLERANCE OF 10 SPROCKET HOLE IS ± 0.20mm
- A0 AND B0 ARE MEASURED FROM ABOVE POCKET BASE 0.30mm
- TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
- TAPE AND REEL QUANTITY : 440PCS/REEL
- THE TAPE IS TREATED FOR ANTI-STATIC.
- ALL RADIUS ARE 0.30MM UNLESS SPECIFY
- SURFACE RESISTIVITY 10³ TO 10 OHMS.

EWR#1228, +0209 EC NO: S2010-0966 DRW:NATSEE CHKD:PTLIM APPR:MLONG 2010/05/20 2005/03/29 2010/06/08		DESCRIPTION	QUALITY SYMBOLS F=0 F=0 F=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	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 2010/03/10	MOLEX INCORPORATED				
				2 PLACES	± 0.2	± ---							
1 PLACE	± ---	± ---	ANGULAR ± 3 °		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87898-001		SHEET NO. 19 OF 20				
B3		REV	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								

