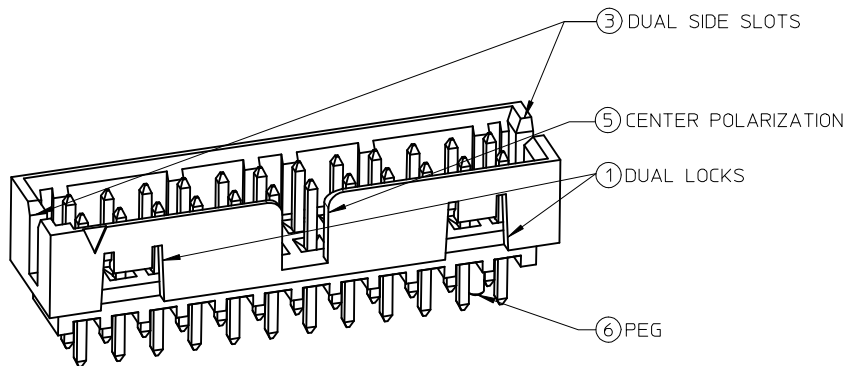
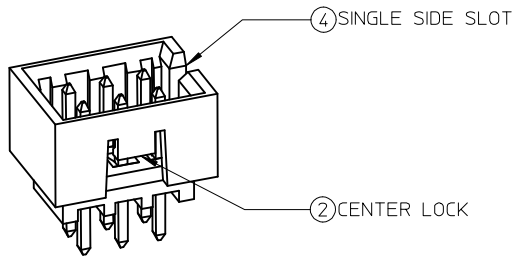


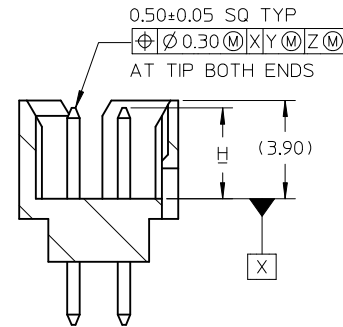
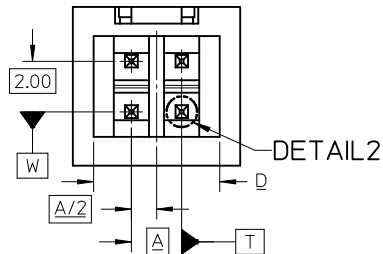
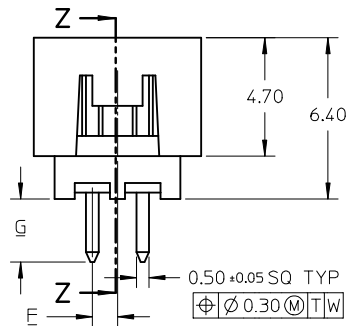
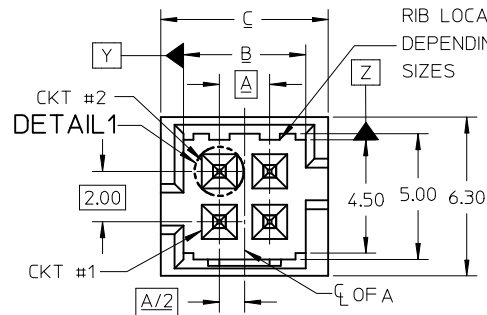
FEATURES SELECTION GUIDE



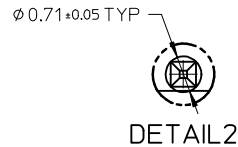
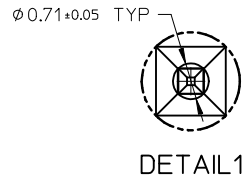
5		4		3		2		1	
CIRCUIT SIZE		FEATURES							
		FRICTION LOCKS		SIDE SLOTS		⑤ CENTER POLARIZATION	⑥ PEG	SHEET NO	
		① DUAL	② CENTER	③ DUAL	④ SINGLE				
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3		
	N.A	YES	YES	N.A	N.A	N.A			
	N.A	YES	N.A	YES	N.A	N.A			
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5		
	N.A	N.A	YES	N.A	N.A	YES			
	N.A	YES	YES	N.A	N.A	N.A			
	N.A	YES	YES	N.A	N.A	YES			
	N.A	YES	N.A	YES	N.A	N.A			
	N.A	YES	N.A	YES	N.A	YES			
	N.A	N.A	YES	N.A	YES	N.A			
8 TO 12	N.A	N.A	YES	N.A	YES	N.A	6 - 8		
	N.A	N.A	YES	N.A	YES	YES			
	N.A	YES	YES	N.A	N.A	N.A			
	N.A	YES	YES	N.A	N.A	YES			
	N.A	YES	N.A	YES	N.A	N.A			
	N.A	YES	N.A	YES	N.A	YES			
14 TO 50	YES	N.A	YES	N.A	YES	N.A	9 - 13		
	YES	N.A	YES	N.A	YES	YES			

RELEASED EC NO: S2015-1188 DRAWN:GMENARLY CHK'D:CGOH APPR:KHLIM 2015/04/15 2015/06/29 2015/06/29	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	
					DRAWN BY GMENARLY		DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex		
					CHECKED BY		DATE			
					APPROVED BY KHLIM		DATE 2015/06/29			
					MATERIAL NO.		DOCUMENT NO.			SHEET NO. 1 OF 13
A	REV		ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3 SEE TABLE		SD-87831-0001 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

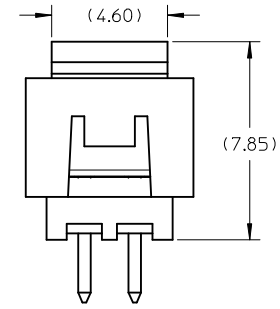
4 CIRCUITS



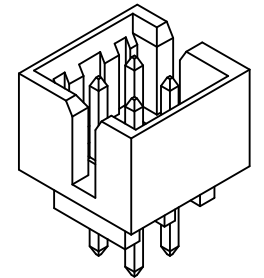
SECTION Z-Z



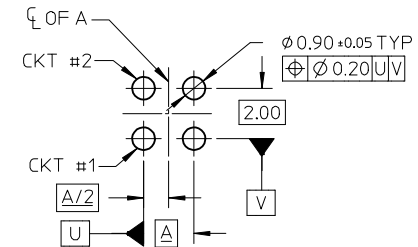
DETAIL2



VIEW FOR
HEADER WITH CAP



VIEW FOR HEADER
WITH ONLY DUAL SLOTS



RECOMMENDED PCB LAYOUT

NOTES:

1. MATERIALS:

HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK

PIN: 0.50MM SQ PHOSPHOR BRONZE

2. FINISHES: REFER TO PLATING OPTIONS

3. PRODUCT SPECIFICATION: PS-87831-027

4. PACKAGING SPECIFICATION:

TUBE: PK-87831-001, TAPE AND REEL: PK-87831-300

5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES

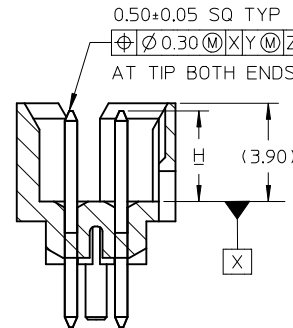
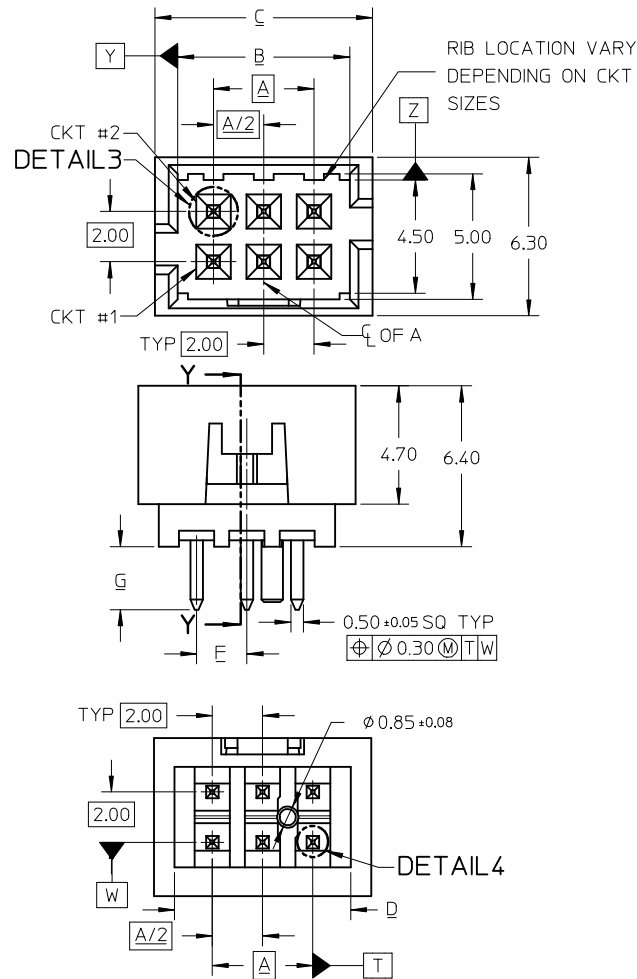
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES

C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE:
79107 (GOLD PLATED), 78787 (TIN PLATED)

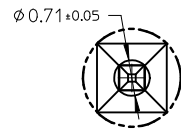
RELEASED EC NO: S2015-1188 DRWN:GMENARLY CHKD:CGOH APPR:KHLIM 2015/04/15 2015/06/29 2015/06/29	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
						MM ONLY		NTS	METRIC			
						DRAWN BY DATE		TITLE				
						GMENARLY 2015/04/15						
						CHECKED BY DATE		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER				
						APPROVED BY DATE		molex				
			KHLIM 2015/06/29									
REV	A		ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
			DRAFT WHERE APPLICABLE			SEE TABLE		SD-87831-0001			2 OF 13	
			MUST REMAIN WITHIN DIMENSIONS			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																				
	4 CIRCUITS																													
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION						F												
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H											
E	4	87831-0419	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	2.00	4.85	6.65	5.00	N.A	N.A	2.50	3.60±0.20											
		87831-0420	N.A	N.A	2																									
		87831-0421	N.A	N.A	3																									
		87831-0436	N.A	N.A	4																									
		87831-0441	87831-0456	N.A	2	N.A	YES	YES	N.A	N.A	N.A						1.00	2.50												
		87831-0442	N.A	N.A	3																									
		87831-5141	N.A	N.A	2																									
		87831-5142	N.A	N.A	3	N.A	YES	YES	N.A	N.A	N.A									2.80										
		87831-6141	N.A	N.A	2																									
		87831-6142	N.A	N.A	3																									
87831-0443	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A	2.50	3.60 ^{+0.15} _{-0.10}																			
87831-0444	N.A	N.A	3																											
D																				D										
C																				C										
B																				B										
A	PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL. RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHLIM 2015/06/29 A QUALITY SYMBOLS F_A=0 F_E=0 F_P=0 GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DIMENSION STYLE MM ONLY DRAWN BY DATE GMENARLY 2015/04/15 CHECKED BY DATE APPROVED BY DATE KHLIM 2015/06/29 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 MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex DOCUMENT NO. SD-87831-0001 SHEET NO. 3 OF 13 <tr><td></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><td></td></tr>																				9	8	7	6	5	4	3	2	1	
	9	8	7	6	5	4	3	2	1																					

6 CIRCUITS



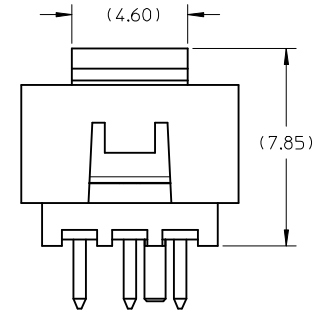
SECTION Y-Y



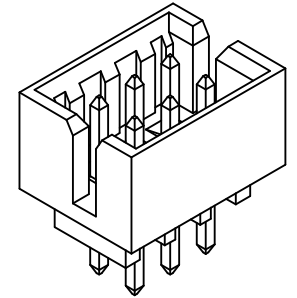
DETAIL3



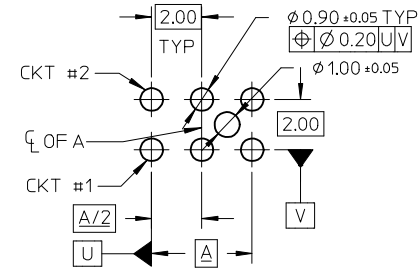
DETAIL4



VIEW FOR
HEADER WITH CAP



VIEW FOR HEADER WITH
ONLY DUAL SLOTS



RECOMMENDED PCB LAYOUT

NOTES:

1. MATERIALS:

HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK

PIN: 0.50MM SQ PHOSPHOR BRONZE

2. FINISHES: REFER TO PLATING OPTIONS

3. PRODUCT SPECIFICATION: PS-87831-027

4. PACKAGING SPECIFICATION:

TUBE: PK-87831-001, TAPE AND REEL: PK-87831-300

5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES

AND CRIMP TERMINAL: 50394 SERIES

B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES

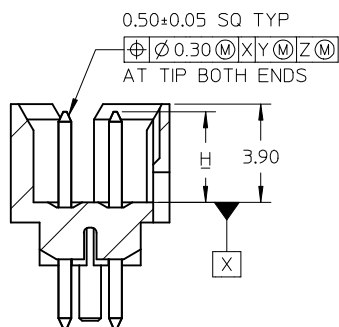
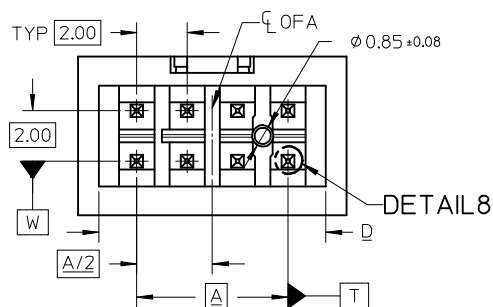
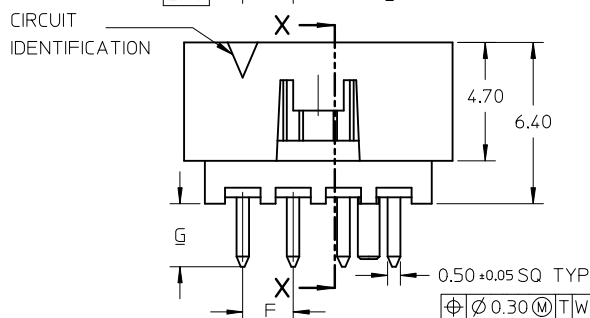
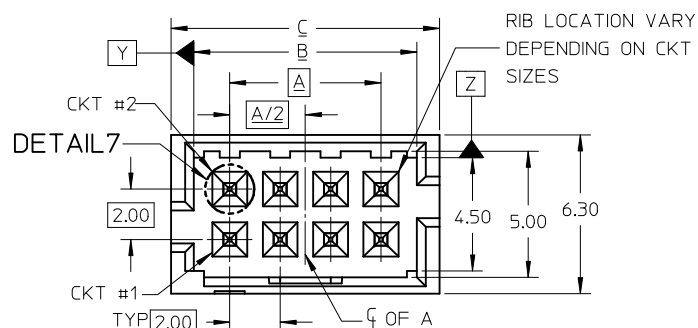
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE:

79107 (GOLD PLATED), 78787 (TIN PLATED)

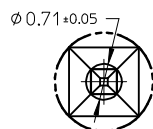
RELEASED EC NO: S2015-1188 DRWNG:GEMARLY CHKD:CGOH APPR:KHLIM 2015/04/15 2015/06/29 2015/06/29	DESCRIPTION	QUALITY SYMBOLS F_A =0 F_C =0 F_P =0 GENERAL TOLERANCES (UNLESS SPECIFIED) <table><thead><tr><th></th><th>mm</th><th>INCH</th></tr></thead><tbody><tr><td>4 PLACES</td><td>±---</td><td>±---</td></tr><tr><td>3 PLACES</td><td>±---</td><td>±---</td></tr><tr><td>2 PLACES</td><td>±0.20</td><td>±---</td></tr><tr><td>1 PLACE</td><td>±---</td><td>±---</td></tr><tr><td>0 PLACE</td><td>±---</td><td>±---</td></tr></tbody></table> ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		mm	INCH	4 PLACES	±---	±---	3 PLACES	±---	±---	2 PLACES	±0.20	±---	1 PLACE	±---	±---	0 PLACE	±---	±---	DIMENSION STYLE MM ONLY DRAWN BY GEMARLY DATE 2015/04/15 CHECKED BY DATE APPROVED BY KHLIM DATE 2015/06/29 MATERIAL NO.	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
			mm	INCH																				
	4 PLACES		±---	±---																				
	3 PLACES		±---	±---																				
	2 PLACES		±0.20	±---																				
1 PLACE	±---	±---																						
0 PLACE	±---	±---																						
REV		SIZE A3	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER																					
		SEE TABLE		DOCUMENT NO. SD-87831-0001		SHEET NO. 4 OF 13																		
		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																		
	6 CIRCUITS																											
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION						F										
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F		G	H								
E	6	87831-0619	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	4.00	6.85	8.65	7.00	N.A	N.A	2.50	3.60±0.20	E								
		87831-0620	N.A	N.A	2																							
		87831-0621	N.A	N.A	3																							
		87831-0636	N.A	N.A	4																							
		87831-0628	N.A	N.A	2	N.A	N.A	YES	N.A	N.A	YES						N.A	2.50										
		87831-0629	N.A	N.A	3																							
		87831-0641	N.A	N.A	2																							
		87831-0642	N.A	87831-5552	3	N.A	YES	YES	N.A	N.A	N.A						2.00	2.50										
		87831-5241	N.A	N.A	2													3.50										
		87831-5242	N.A	N.A	3													2.80										
87831-6241	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A									2.50	3.60 ^{+0.15} _{-0.10}									
87831-6242	N.A	N.A	3																									
87831-0643	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A																			
87831-0644	N.A	N.A	3																									
87831-0645	N.A	N.A	2	N.A	YES	N.A	YES	N.A	YES																			
87831-0646	N.A	N.A	3																									
D		87831-0632	N.A	N.A	2	N.A	YES	YES	N.A	N.A	YES							N.A	2.50									
		87831-5119	N.A	N.A	1	N.A	N.A	YES	N.A	YES	N.A																	
C																												
B																												
A	PLATING OPTIONS:					RELEASED EC NO: S2015-1188 2015/04/15 DRWN:GMENARLY 2015/06/29 CHKD:CGOH 2015/06/29 APPR:KHLIM		QUALITY SYMBOLS FA=0 FG=0 FP=0		GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE	DESIGN UNITS		THIRD ANGLE PROJECTION MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex			SHEET NO.							
	1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.	4 PLACES	± ---	± ---	DRAWN BY					DATE	TITLE																	
	2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.	3 PLACES	± ---	± ---	CHECKED BY					DATE						5 OF 13												
	3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.	2 PLACES	± 0.20	± ---	APPROVED BY					DATE																		
	4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.	1 PLACE	± ---	± ---	KHLIM					2015/06/29																		
		0 PLACE	± ---	± ---	MATERIAL NO.					DOCUMENT NO.																		
		ANGULAR ± 3 °			SEE TABLE					SD-87831-0001																		
		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																		
										A3																		
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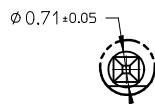
8 TO 12 CIRCUITS



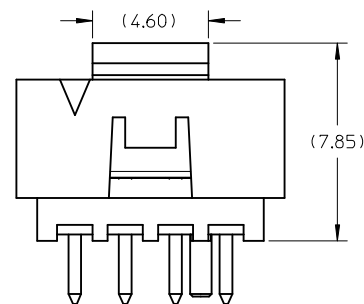
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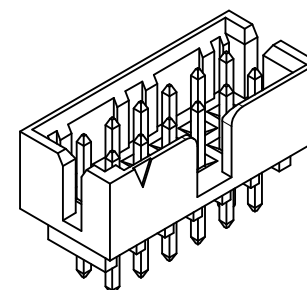
DETAIL7



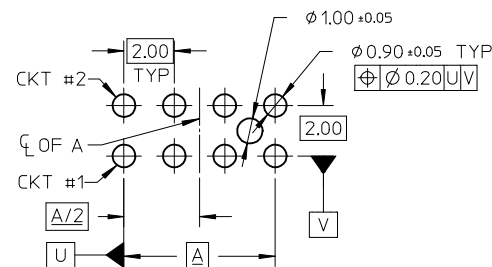
DETAIL8



VIEW FOR HEADER WITH CAP



VIEW FOR HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



RECOMMENDED PCB LAYOUT

NOTES:

1. MATERIALS:

HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK

PIN: 0.50MM SQ PHOSPHOR BRONZE

2. FINISHES: REFER TO PLATING OPTIONS

3. PRODUCT SPECIFICATION: PS-87831-027

4. PACKAGING SPECIFICATION:

TUBE: PK-87831-001, TAPE AND REEL: PK-87831-300

5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES

B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES

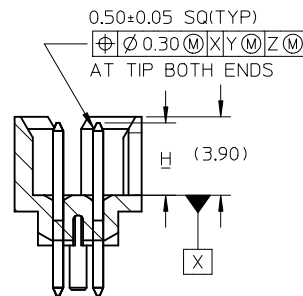
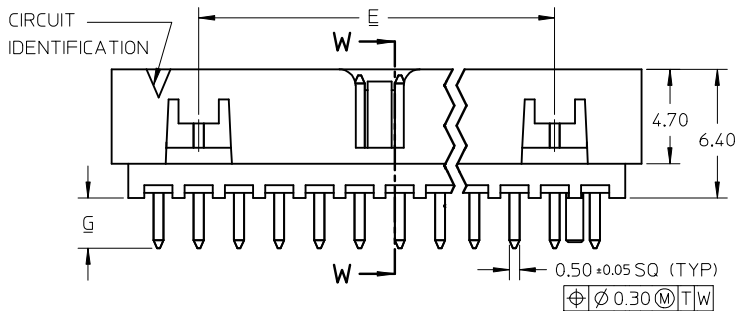
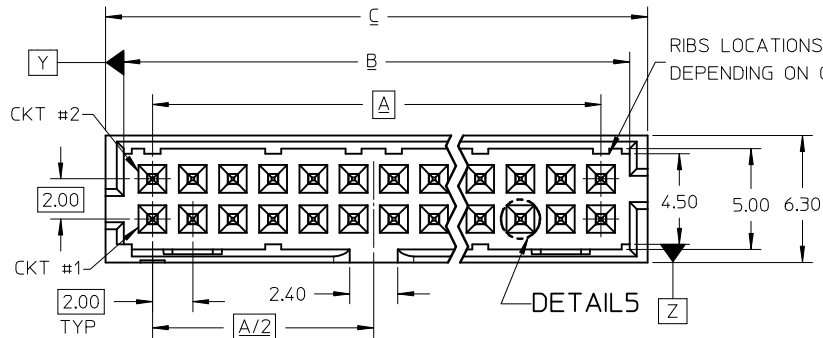
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)

RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/04/15 CK'D:CGOH 2015/06/29 APPR:KHLIM 2015/06/29	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION				
							MM ONLY		NTS	METRIC					
			$\nabla_F=0$	mm		INCH		DRAWN BY		DATE		TITLE			
				4 PLACES $\pm$ ---		$\pm$ ---		GMENARLY		2015/04/15					
			$\nabla_F=0$	3 PLACES $\pm$ ---		$\pm$ ---		CHECKED BY		DATE					
				2 PLACES $\pm$ 0.20		$\pm$ ---									
			$\nabla_F=0$	1 PLACE $\pm$ ---		$\pm$ ---		APPROVED BY		DATE		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex			
0 PLACE $\pm$ ---		$\pm$ ---		KHLIM		2015/06/29									
A	REV	ANGULAR $\pm$ 3 °				MATERIAL NO.		DOCUMENT NO.		SHEET NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE TABLE		SD-87831-0001		6 OF 13					
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

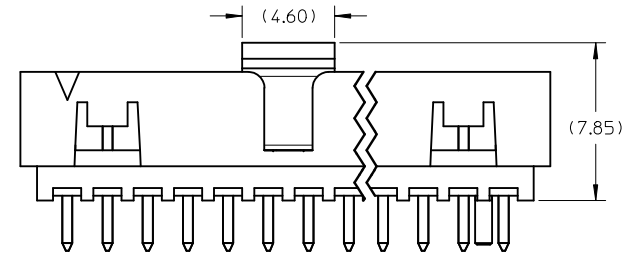
		10	9	8	7	6	5	4	3	2	1																								
		8 CIRCUITS																																	
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION						F																	
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F		G	H															
E	8	87831-0819	N.A	N.A	1	N.A	N.A	YES	N.A	YES	N.A	6.00	8.85	10.65	9.00	N.A	N.A	2.50	3.60±0.20	E															
		87831-0820	N.A	N.A	2																														
		87831-0821	N.A	N.A	3																														
		87831-0836	N.A	N.A	4																														
		87831-0828	N.A	N.A	2	N.A	N.A	YES	N.A	YES	YES						N.A	N.A			N.A	3.00	2.50												
		87831-0829	N.A	N.A	3																														
		87831-0841	N.A	87831-5551	2																														
		87831-0842	N.A	N.A	3																														
		87831-5441	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A			N.A	3.00	3.50												
		87831-5442	N.A	N.A	3																														
N.A	87831-5541	N.A	2																																
N.A	87831-5542	N.A	3																																
D		87831-5741	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A	6.00	8.85	10.65	9.00	N.A	3.00	4.70	3.60 ^{+0.15} _{-0.10}	D															
		87831-5742	N.A	N.A	3																														
		87831-0832	N.A	N.A	2	N.A	YES	YES	N.A	N.A	YES							N.A			N.A	N.A	3.00	2.50											
		87831-0843	N.A	N.A	2																														
		87831-0844	N.A	N.A	3	N.A	YES	N.A	YES	N.A	YES							N.A			N.A	N.A	3.00	2.50											
		87831-0845	N.A	N.A	2																														
		87831-0846	N.A	N.A	3																														
C																				C															
B																				B															
A	PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.																			RELEASED EC NO: S2015-1188 DRWNG:GMENARLY 2015/04/15 CHK'D:GGH 2015/06/29 APPR:KHL IM 2015/06/29	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		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex				SHEET NO. 7 OF 13	A
	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																															
fb_frame_A3_P_AM_T Rev. G 2012/01/11		9	8	7	6	5	4	3	2	1																									

	10	9	8	7	6	5	4	3	2	1																								
	10 TO 12 CIRCUITS																																	
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION						F																
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H															
E	10	87831-1019	N.A	N.A	1	N.A	N.A	YES	N.A	YES	N.A	8.00	10.85	12.65	11.00	N.A	N.A	2.50	3.60±0.20															
		87831-1020	N.A	N.A	2																													
		87831-1021	N.A	N.A	3																													
		87831-1036	N.A	N.A	4																													
		87831-1010	N.A	N.A	2	N.A	N.A	YES	N.A	YES	N.A							3.50																
		87831-1011	N.A	N.A	3																													
		87831-1028	N.A	N.A	2	N.A	N.A	YES	N.A	YES	YES						2.50																	
		87831-1029	N.A	N.A	3																													
		87831-1035	N.A	N.A	3	N.A	N.A	YES	N.A	YES	YES						3.50																	
		87831-1041	N.A	N.A	2																													
D		87831-1042	N.A	87831-5553	3	N.A	YES	YES	N.A	N.A	N.A	10.00	12.85	14.65	13.00	N.A	4.00	2.50	3.60 ^{+0.15} _{-0.10}															
		87831-1032	N.A	N.A	2															N.A	YES	YES	N.A	N.A	YES	2.50								
		87831-1043	N.A	N.A	2													N.A									YES	N.A	YES	N.A	N.A	2.50		
		87831-1044	N.A	N.A	3															N.A	YES	N.A	YES	N.A	N.A	2.50								
		87831-1045	N.A	N.A	2	N.A	YES	N.A	YES	N.A	YES						2.50																	
		87831-1046	N.A	N.A	3													N.A		YES	YES	N.A	YES	YES	2.50									
		C	12	87831-1219	N.A	N.A	1	N.A	N.A	YES	N.A						YES									N.A	10.00	12.85	14.65	13.00	N.A	N.A	2.50	3.60±0.20
				87831-1220	N.A	N.A	2																											
				87831-1221	N.A	N.A	3																											
				87831-1236	N.A	N.A	4																											
87831-1228	N.A			N.A	2	N.A	N.A	YES	N.A	YES	YES	2.50																						
87831-1229	N.A			N.A	3																													
87831-1241	N.A			N.A	2	N.A	YES	YES	N.A	N.A	N.A	2.50																						
87831-1242	N.A			N.A	3																													
87831-1255	87831-1256			N.A	2	N.A	YES	YES	N.A	N.A	N.A	2.50																						
87831-1232	N.A			N.A	2								N.A	YES	YES	N.A	N.A	YES	2.50															
87831-1243	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A	2.50																								
87831-1244	N.A	N.A	3								N.A	YES	N.A	YES	N.A	N.A	2.50																	
87831-1245	N.A	N.A	2	N.A	YES	N.A	YES	N.A	YES	2.50																								
87831-1246	N.A	N.A	3								N.A	YES	N.A	YES	N.A	YES	2.50																	
B		PLATING OPTIONS:																RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHL IM 2015/06/29 A	REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY DATE GMENARLY 2015/04/15 CHECKED BY DATE APPROVED BY DATE KHL IM 2015/06/29 MATERIAL NO. SEE TABLE	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex SD-87831-0001	SHEET NO. 8 OF 13							
		1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.																																
		2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.																																
		3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.																																
		4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.																																
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																																
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																																
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		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																																
A	tb_frame_A3_P_AM.T Rev. G 2012/01/11										9	8	7	6	5	4	3	2	1															

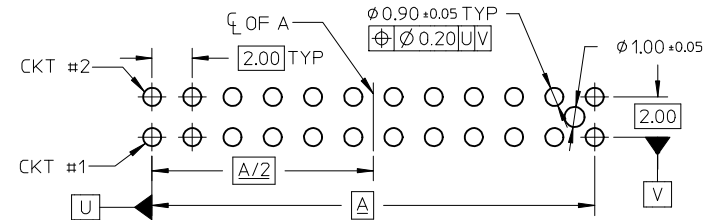
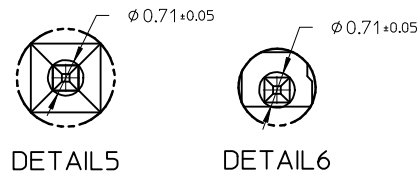
14 TO 50 CIRCUITS



SECTION W-W



VIEW FOR HEADER WITH CAP



RECOMMENDED PCB LAYOUT

NOTES:

- MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50MM SQ PHOSPHOR BRONZE
- FINISHES: REFER TO PLATING OPTIONS
- PRODUCT SPECIFICATION: PS-87831-027
- PACKAGING SPECIFICATION:
TUBE: PK-87831-001, TAPE AND REEL: PK-87831-300
- MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)

RELEASED EC NO: S2015-1188 DRAWN:GMENARLY CHKD:CGOH APPR:KHL IM 2015/04/15 2015/06/29 2015/06/29	DESCRIPTION REV A	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			
				mm	INCH	DRAWN BY GMENARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER					
			4 PLACES	± ---	± ---	CHECKED BY	DATE						
			3 PLACES	± ---	± ---	APPROVED BY KHL IM	DATE 2015/06/29	SD-87831-0001					
			2 PLACES	± 0.20	± ---	MATERIAL NO.	SEE TABLE						
			1 PLACE	± ---	± ---	ANGULAR ± 3 °			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
0 PLACE	± ---	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										

		10	9	8	7	6	5	4	3	2	1																							
		14 TO 20 CIRCUITS																																
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION								F														
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H															
E	14	87831-1419	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	12.00	14.85	16.65	15.00	8.00	N.A	2.50	3.60±0.20	E														
		87831-1420	N.A	87831-5554	2																													
		87831-1421	N.A	N.A	3																													
		87831-1436	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50																
		87831-1428	N.A	N.A	2													3.50																
		87831-1429	N.A	N.A	3													3.50																
		87831-1435	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES																							
87831-1410	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A																									
87831-1411	N.A	N.A	3																															
D	16	87831-1619	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	14.00	16.85	18.65	17.00	10.00	N.A	2.50	3.60±0.20	D														
		87831-1620	N.A	N.A	2																													
		87831-1621	N.A	N.A	3																													
		87831-1636	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50																
		87831-1628	N.A	N.A	2													3.50																
		87831-1629	N.A	N.A	3																													
		87831-1635	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES																							
C	18	87831-1819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	16.00	18.85	20.65	19.00	12.00	N.A	2.50	3.60±0.20	C														
		87831-1820	N.A	N.A	2																													
		87831-1821	N.A	N.A	3																													
		87831-1836	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50																
		87831-1828	N.A	N.A	2													3.50																
		87831-1829	N.A	N.A	3																													
		A	20	87831-2019	N.A	N.A	1	YES	N.A	YES	N.A							YES			N.A	18.00	20.85	22.65	21.00	14.00	N.A	2.50	3.60±0.20	A				
87831-2020	N.A			N.A	2																													
87831-2021	N.A			N.A	3																													
87831-2036	N.A			N.A	4	YES	N.A	YES	N.A	YES	YES	2.50																						
87831-2028	N.A			N.A	2							3.50																						
87831-2029	N.A			N.A	3							3.50																						
87831-2035	N.A			N.A	3	YES	N.A	YES	N.A	YES	N.A																							
87831-2010	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A																									
87831-2011	N.A	N.A	3																															
PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL. RELEASED EC NO: S2015-1188 DRWN:GEMENARLY CHKD:GGOH APPR:KHL IM 2015/04/15 2015/06/29 2015/06/29 QUALITY SYMBOLS FA=0 FB=0 FC=0 DESCRIPTION REV GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DIMENSION STYLE MM ONLY DRAWN BY DATE CHECKED BY DATE APPROVED BY DATE 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 MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex DOCUMENT NO. SD-87831-0001 SHEET NO. 10 OF 13 <tr><th colspan="2"></th><th>10</th><th>9</th><th>8</th><th>7</th><th>6</th><th>5</th><th>4</th><th>3</th><th>2</th><th>1</th><th colspan="2"></th></tr>																							10	9	8	7	6	5	4	3	2	1		
		10	9	8	7	6	5	4	3	2	1																							

		10	9	8	7	6	5	4	3	2	1									
		22 TO 30 CIRCUITS																		
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION						F		
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F		G	H
	22	87831-2219	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	20.00	22.85	24.65	23.00	16.00	N.A	2.50	3.60±0.20	
		87831-2220	N.A	N.A	2															
		87831-2221	N.A	N.A	3															
		87831-2236	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-2228	N.A	N.A	2															
87831-2229	N.A	N.A	3																	
E	24	87831-2419	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	22.00	24.85	26.65	25.00	18.00	N.A	2.50	3.60±0.20	
		87831-2420	N.A	N.A	2															
		87831-2421	N.A	N.A	3															
		87831-2436	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-2428	N.A	N.A	2															
		87831-2429	N.A	N.A	3															
		87831-2435	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50		
87831-2410	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A	3.50										
D	26	87831-2619	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	24.00	26.85	28.65	27.00	20.00	N.A	2.50	3.60±0.20	
		87831-2620	N.A	N.A	2															
		87831-2621	N.A	N.A	3															
		87831-2636	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-2628	N.A	N.A	2															
		87831-2629	N.A	N.A	3															
		87831-2610	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A							3.50		
C	28	87831-2819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	26.00	28.85	30.65	29.00	22.00	N.A	2.50	3.60±0.20	
		87831-2820	N.A	N.A	2															
		87831-2821	N.A	N.A	3															
		87831-2836	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-2828	N.A	N.A	2															
		87831-2829	N.A	N.A	3															
B	30	87831-3019	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	28.00	30.85	32.65	31.00	24.00	N.A	2.50	3.60±0.20	
		87831-3020	N.A	N.A	2															
		87831-3021	N.A	N.A	3															
		87831-3036	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-3028	N.A	N.A	2															
		87831-3029	N.A	N.A	3															
		87831-3035	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50		
		87831-3010	87831-3030	87831-3050	2	YES	N.A	YES	N.A	YES	N.A							3.50		
A	PLATING OPTIONS:					RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/04/15 CHKD:GGOH 2015/06/29 APPR:KHL IM 2015/06/29 REV	QUALITY SYMBOLS F=0 F=0 F=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY DATE GMENARLY 2015/04/15 CHECKED BY DATE APPROVED BY DATE KHL IM 2015/06/29 MATERIAL NO. SEE TABLE SIZE A3	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex SD-87831-0001 SHEET NO. 11 OF 13	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
	1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.																			
	2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.																			
	3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.																			
	4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.																			
ib_frame_A3_P_AM.T Rev. G 2012/01/11		9	8	7	6	5	4	3	2	1										

		10		9		8		7		6		5		4		3		2		1	
32 TO 40 CIRCUITS																					
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION								F	
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H		
	32	87831-3219	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	30.00	32.85	34.65	33.00	26.00	N.A	2.50	3.60±0.20		
		87831-3220	N.A	N.A	2																
		87831-3221	N.A	N.A	3																
		87831-3236	N.A	N.A	4																
		87831-3228	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50			
E	34	87831-3229	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	32.00	34.85	36.65	35.00	28.00	N.A	2.50	3.60±0.20		
		87831-3419	N.A	N.A	1																
		87831-3420	N.A	N.A	2																
		87831-3421	N.A	N.A	3																
		87831-3436	N.A	N.A	4																
	36	87831-3428	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES	34.00	36.85	38.65	37.00	30.00	N.A	2.50	3.60±0.20		
		87831-3429	N.A	N.A	3																
		87831-3435	N.A	N.A	3																
		87831-3619	N.A	N.A	1																
		87831-3620	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A							36.00		38.85	40.65
87831-3621	N.A	N.A	3																		
87831-3636	N.A	N.A	4																		
87831-3628	N.A	N.A	2																		
87831-3629	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	38.00	40.85	42.65	41.00	34.00	N.A	2.50	3.60±0.20				
87831-3819	N.A	N.A	1																		
87831-3820	N.A	N.A	2																		
87831-3821	N.A	N.A	3																		
C	38	87831-3836	N.A	N.A	4	YES	N.A	YES	N.A							YES		YES	38.00	40.85	42.65
		87831-3828	N.A	N.A	2																
		87831-3829	N.A	N.A	3																
		87831-4019	N.A	N.A	1																
		87831-4020	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A	38.00	40.85	42.65	41.00	34.00	N.A	2.50			
87831-4021	N.A	N.A	3																		
87831-4036	N.A	N.A	4																		
87831-4028	N.A	N.A	2																		
87831-4029	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	38.00	40.85							42.65	41.00	34.00	N.A
87831-4010	N.A	N.A	2																		
87831-4019	N.A	N.A	1																		
87831-4020	N.A	N.A	2																		
87831-4021	N.A	N.A	3																		
	40	87831-4036	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES	38.00	40.85	42.65	41.00	34.00	N.A	2.50	3.60±0.20		
		87831-4028	N.A	N.A	2																
		87831-4029	N.A	N.A	3																
		87831-4010	N.A	N.A	2																
		87831-4019	N.A	N.A	1																
87831-4020	N.A	N.A	2																		
87831-4021	N.A	N.A	3																		
87831-4036	N.A	N.A	4																		
87831-4028	N.A	N.A	2																		
87831-4029	N.A	N.A	3																		
87831-4010	N.A	N.A	2																		
B																					
PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.																					
A	RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/06/29 CHKD:CGOH 2015/06/29 APPR:KHL IM 2015/06/29		DESCRIPTION REV	QUALITY SYMBOLS F=0 F=0 F=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3 °		DIMENSION STYLE MM ONLY DRAWN BY DATE GMENARLY 2015/04/15 CHECKED BY DATE		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex						SHEET NO. 12 OF 13		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		APPROVED BY DATE KHL IM 2015/06/29		DOCUMENT NO. SD-87831-0001													
	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. G 2012/01/11		9		8		7		6		5		4		3		2		1			

	10	9	8	7	6	5	4	3	2	1																																																			
	42 TO 50 CIRCUITS																																																												
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION						F																																											
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H																																										
	42	87831-4219	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	40.00	42.85	44.65	43.00	36.00	N.A	2.50	3.60±0.20																																										
87831-4220		N.A	N.A	2																																																									
87831-4221		N.A	N.A	3																																																									
87831-4236		N.A	N.A	4																																																									
87831-4228		N.A	N.A	2	YES	N.A	YES	N.A	YES	YES	2.50																																																		
		87831-4229	N.A	N.A	3																																																								
E	44	87831-4419	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	42.00	44.85	46.65	45.00	38.00	N.A	2.50	3.60±0.20																																										
87831-4420		N.A	N.A	2																																																									
87831-4421		N.A	N.A	3																																																									
87831-4436		N.A	N.A	4																																																									
87831-4428		N.A	N.A	2	YES	N.A	YES	N.A	YES	YES	2.50																																																		
87831-4429		N.A	N.A	3																																																									
		87831-4435	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50																																											
D	46	87831-4619	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	44.00	46.85	48.65	47.00	40.00	N.A	2.50	3.60±0.20																																										
87831-4620		N.A	N.A	2																																																									
87831-4621		N.A	N.A	3																																																									
87831-4636		N.A	N.A	4																																																									
87831-4628		N.A	N.A	2	YES	N.A	YES	N.A	YES	YES	2.50																																																		
87831-4629		N.A	N.A	3																																																									
C	48	87831-4819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	46.00	48.85	50.65	49.00	42.00	N.A	2.50	3.60±0.20																																										
87831-4820		N.A	N.A	2																																																									
87831-4821		N.A	N.A	3																																																									
87831-4836		N.A	N.A	4																																																									
87831-4828		N.A	N.A	2	YES	N.A	YES	N.A	YES	YES	2.50																																																		
87831-4829		N.A	N.A	3																																																									
	50	87831-5019	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	48.00	50.85	52.65	51.00	44.00	N.A	2.50	3.60±0.20																																										
87831-5020		N.A	N.A	2																																																									
87831-5021		N.A	N.A	3																																																									
87831-5036		N.A	N.A	4																																																									
87831-5028		N.A	N.A	2	YES	N.A	YES	N.A	YES	YES	2.50																																																		
87831-5029		N.A	N.A	3																																																									
		87831-5035	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50																																											
B																					B																																								
A	PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 4 - 2.50um/10uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.																				A																																								
	<table><tr><td rowspan="5">RELEASED EC NO: SZ015-1188 DRWN:GMEARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHL IM 2015/06/29</td><td rowspan="5">QUALITY SYMBOLS ▽A=0 ▽E=0 ▽F=0</td><td rowspan="5">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 colspan="2"></td><td colspan="2">DRAWN BY DATE GMENARLY 2015/04/15</td><td>TITLE</td><td colspan="2" rowspan="3">MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex</td></tr><tr><td colspan="2"></td><td colspan="2">CHECKED BY DATE</td></tr><tr><td colspan="2"></td><td colspan="2">APPROVED BY DATE KHL IM 2015/06/29</td><td>MATERIAL NO.</td><td>DOCUMENT NO. SD-87831-0001</td><td>SHEET NO. 13 OF 13</td></tr><tr><td colspan="3"></td><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">SEE TABLE</td><td colspan="2"></td><td colspan="2"></td></tr></table>																				RELEASED EC NO: SZ015-1188 DRWN:GMEARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHL IM 2015/06/29	QUALITY SYMBOLS ▽A=0 ▽E=0 ▽F=0	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				DRAWN BY DATE GMENARLY 2015/04/15		TITLE	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex				CHECKED BY DATE				APPROVED BY DATE KHL IM 2015/06/29		MATERIAL NO.	DOCUMENT NO. SD-87831-0001	SHEET NO. 13 OF 13				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE						
RELEASED EC NO: SZ015-1188 DRWN:GMEARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHL IM 2015/06/29	QUALITY SYMBOLS ▽A=0 ▽E=0 ▽F=0	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																																																				
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