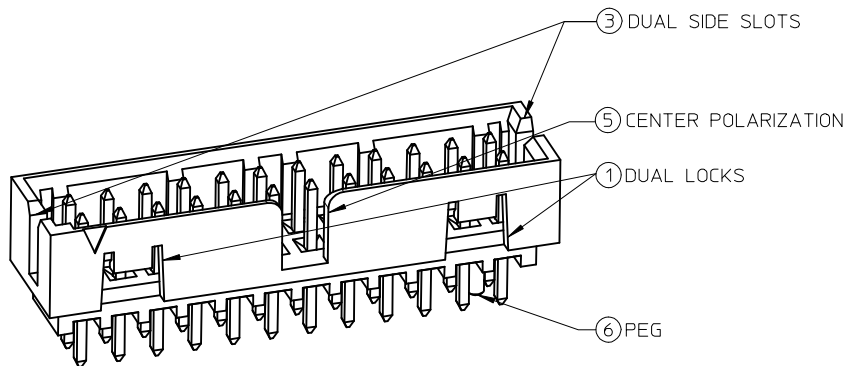
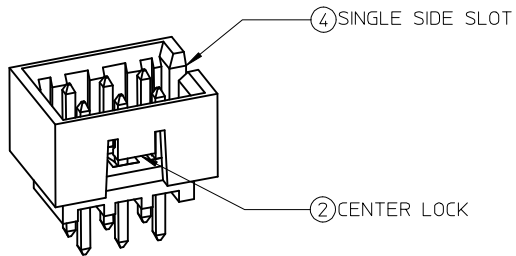


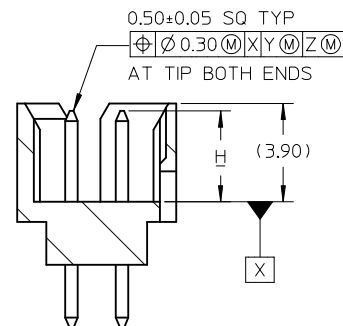
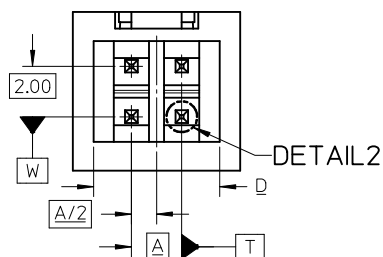
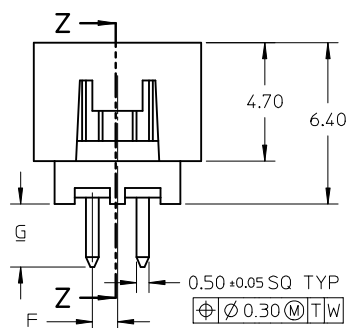
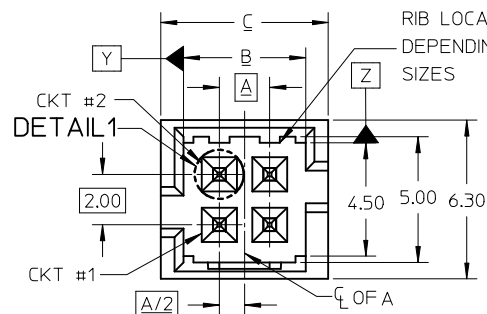
FEATURES SELECTION GUIDE



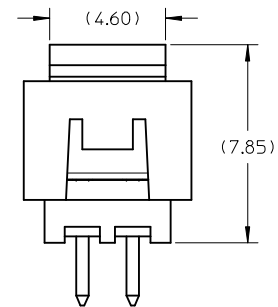
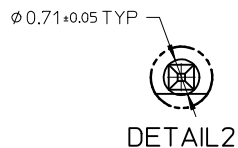
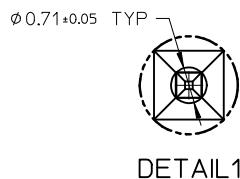
5		4		3		2		1	
CIRCUIT SIZE		FEATURES							
		FRICTION LOCKS		SIDE SLOTS		⑤ CENTER POLARIZATION	⑥ PEG	SHEET NO	
		① DUAL	② CENTER	③ DUAL	④ SINGLE				
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3		
	N.A	YES	YES	N.A	N.A	N.A			
	N.A	YES	N.A	YES	N.A	N.A			
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5		
	N.A	N.A	YES	N.A	N.A	YES			
	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 REV A	DESCRIPTION REV A	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			
					CHECKED BY	DATE				
					APPROVED BY KHLIM	DATE 2015/06/29	molex			
					MATERIAL NO.					DOCUMENT NO.
			ANGULAR ± 3 °		SEE TABLE		SD-87831-0001			
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							

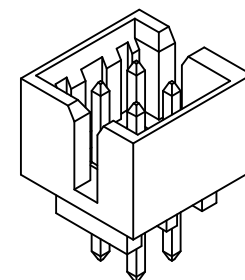
4 CIRCUITS



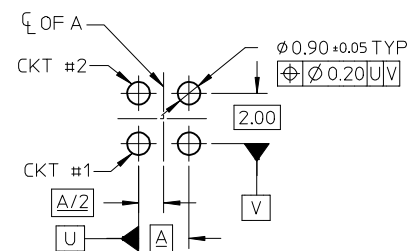
SECTION Z-Z



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

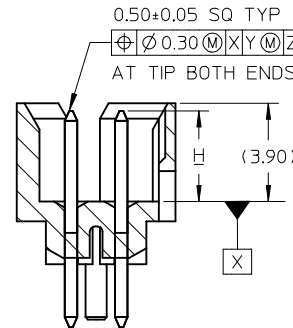
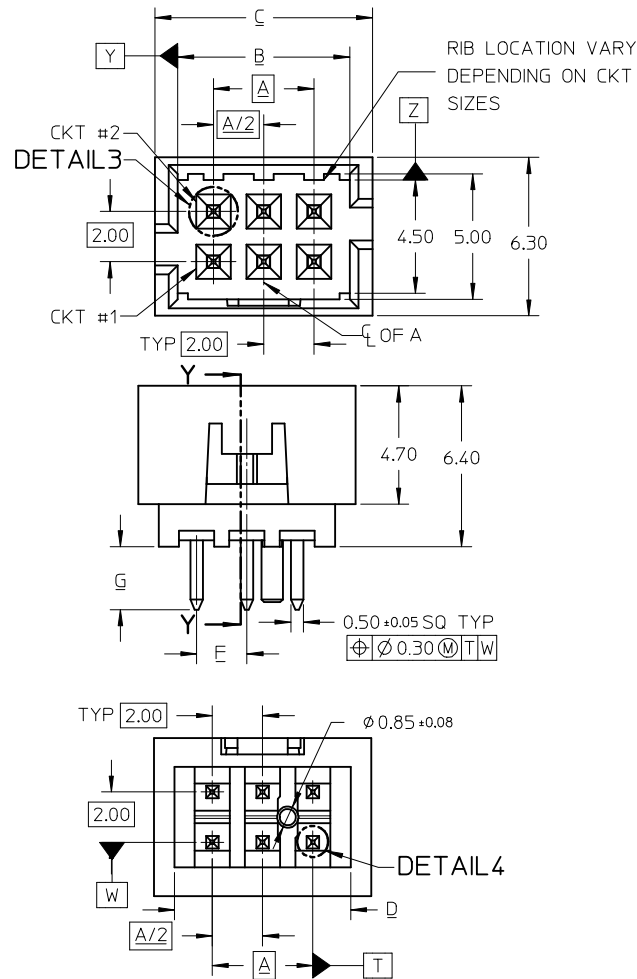
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES

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

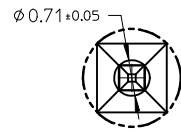
RELEASED EC NO: S2015-1188 DRAWN:GMENARLY CHKD:CGOH APPR:KHLIM 2015/04/15 2015/06/29 2015/06/29	DESCRIPTION	QUALITY SYMBOLS FA=0 FG=0 FP=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY GMENARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER					
			4 PLACES	± ---	± ---	CHECKED BY	DATE						
			3 PLACES	± ---	± ---	APPROVED BY		DATE	molex				
			2 PLACES	± 0.20	± ---	KHLIM		2015/06/29					
			1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.					
0 PLACE	± ---	± ---	SEE TABLE		SD-87831-0001		2 OF 13						
A	REV		ANGULAR ± 3 °		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										

	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	N.A	YES	YES	N.A	N.A	N.A									2.80																																																															
		87831-5142	N.A	N.A	3																																																																														
		87831-6141	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						2.50																																																																		
87831-6142	N.A	N.A	3																																																																																
87831-0443	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A	N.A	3.60 ^{+0.15} _{-0.10}																																																																								
87831-0444	N.A	N.A	3																																																																																
D																				D																																																															
C																				C																																																															
B																				B																																																															
A																				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.																																																																																			
<table><tr><td rowspan="5">RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHLIM 2015/06/29</td><td rowspan="5">QUALITY SYMBOLS FA=0 FB=0 FC=0 </td><td rowspan="5">DESCRIPTION</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">4 PLACES</td><td>mm</td><td>INCH</td><td>DRAWN BY GMENARLY</td><td>DATE 2015/04/15</td><td colspan="4" rowspan="4">MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex</td></tr><tr><td>3 PLACES</td><td>mm</td><td>INCH</td><td>CHECKED BY</td><td>DATE</td></tr><tr><td>2 PLACES</td><td>mm</td><td>INCH</td><td>APPROVED BY</td><td>DATE</td></tr><tr><td>1 PLACE</td><td>mm</td><td>INCH</td><td>KHLIM</td><td>2015/06/29</td></tr><tr><td colspan="2">0 PLACE</td><td>mm</td><td>INCH</td><td colspan="2">MATERIAL NO.</td><td colspan="2">DOCUMENT NO.</td><td colspan="2">SHEET NO.</td></tr><tr><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">SIZE A3</td><td colspan="14">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table>																					RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHLIM 2015/06/29	QUALITY SYMBOLS FA=0 FB=0 FC=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		4 PLACES	mm	INCH	DRAWN BY GMENARLY	DATE 2015/04/15	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex				3 PLACES	mm	INCH	CHECKED BY	DATE	2 PLACES	mm	INCH	APPROVED BY	DATE	1 PLACE	mm	INCH	KHLIM	2015/06/29	0 PLACE		mm	INCH	MATERIAL NO.		DOCUMENT NO.		SHEET NO.		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													
RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHLIM 2015/06/29	QUALITY SYMBOLS FA=0 FB=0 FC=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																																																																										
			4 PLACES	mm	INCH	DRAWN BY GMENARLY	DATE 2015/04/15	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex																																																																											
				3 PLACES	mm	INCH	CHECKED BY					DATE																																																																							
				2 PLACES	mm	INCH	APPROVED BY					DATE																																																																							
				1 PLACE	mm	INCH	KHLIM					2015/06/29																																																																							
0 PLACE		mm	INCH	MATERIAL NO.		DOCUMENT NO.		SHEET NO.																																																																											
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																																																																									

6 CIRCUITS



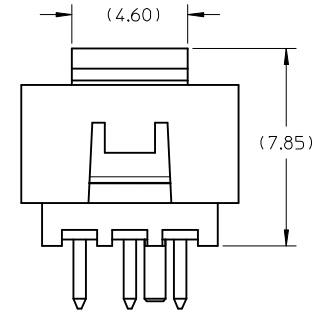
SECTION Y-Y



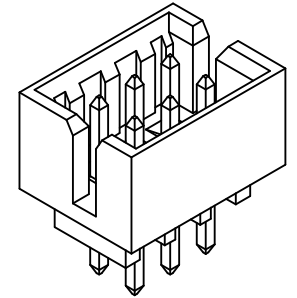
DETAIL3



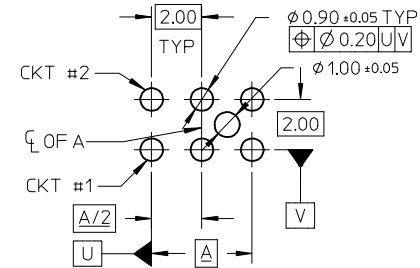
DETAIL4



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

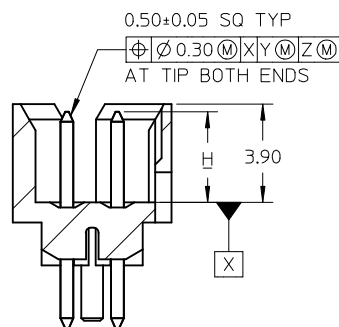
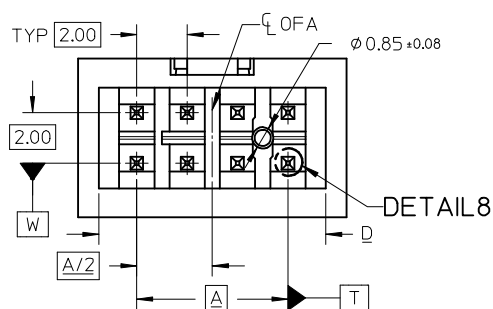
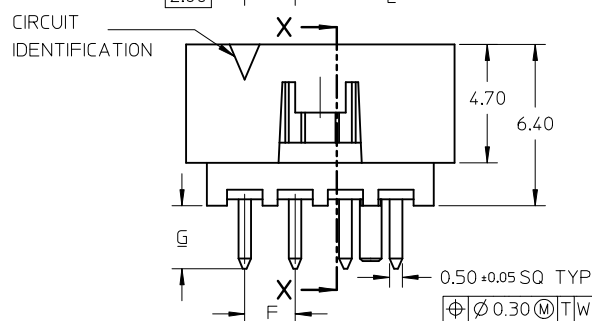
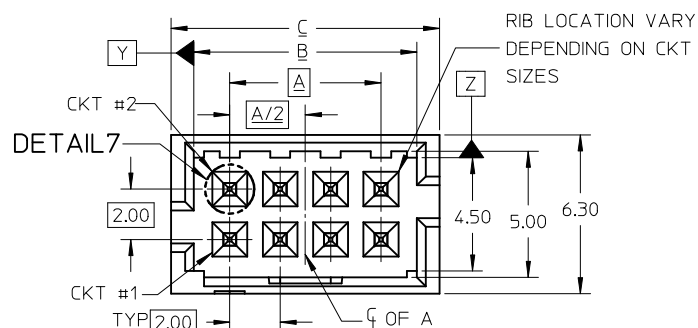
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE:

79107 (GOLD PLATED), 78787 (TIN PLATED)

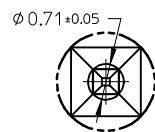
RELEASED EC NO: S2015-1188 DRAWN:GMEARLY CHKD:CGOH APPR:KHLIM	2015/04/15 2015/06/29 2015/06/29	DESCRIPTION	QUALITY SYMBOLS F_A F_C F_P =0 =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
							mm	INCH	DRAWN BY GMEARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER				
				4 PLACES			± ---	± ---	CHECKED BY	DATE					
				3 PLACES			± ---	± ---							
				2 PLACES			± 0.20	± ---	APPROVED BY KHLIM		DATE 2015/06/29	DOCUMENT NO. SD-87831-0001 molex			
				1 PLACE			± ---	± ---							
				0 PLACE			± ---	± ---							
				ANGULAR ± 3 °					MATERIAL NO.		SHEET NO. 4 OF 13				
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					SEE TABLE						
									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																		
	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			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																	
		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						N.A				2.50	3.60±0.20						
		87831-5241	N.A	N.A	2																3.50							
		87831-5242	N.A	N.A	3																2.80							
D		87831-6241	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A	4.00	6.85	8.65	7.00	N.A	2.00		3.60 ^{+0.15} _{-0.10}	D								
		87831-6242	N.A	N.A	3																							
		87831-0643	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A							N.A				2.50						
		87831-0644	N.A	N.A	3																	2.50						
		87831-0645	N.A	N.A	2	N.A	YES	N.A	YES	N.A	YES										2.50	3.60±0.20						
		87831-0646	N.A	N.A	3																							
		87831-0632	N.A	N.A	2																2.50							
				87831-5119	N.A	N.A	1	N.A	N.A	YES	N.A							YES			N.A					N.A	2.50	3.60±0.20
		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		QUALITY SYMBOLS F _A =0 F _G =0 F _P =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		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						DOCUMENT NO. SD-87831-0001		SHEET NO. 5 OF 13																
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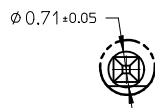
8 TO 12 CIRCUITS



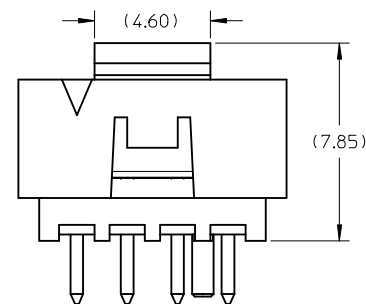
SECTION X-X



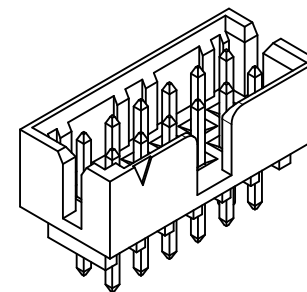
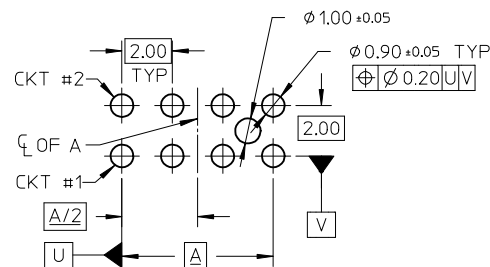
DETAIL 7



DETAIL 8



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:

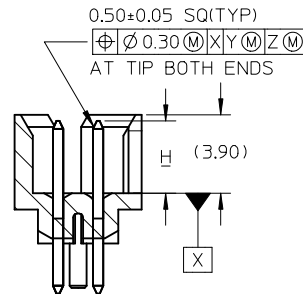
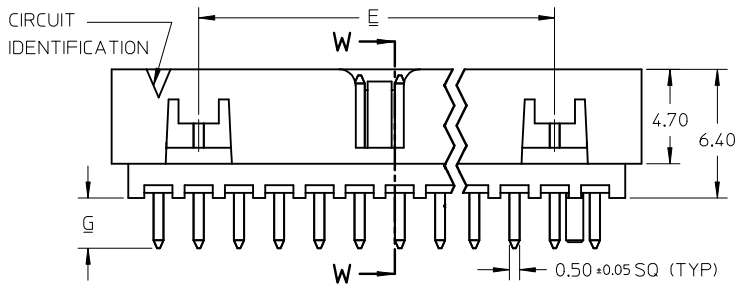
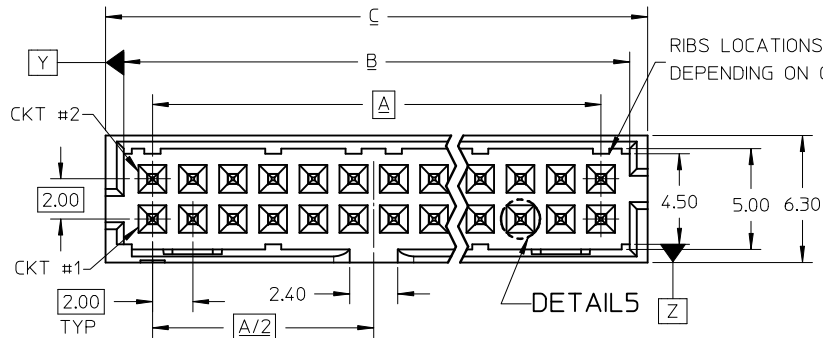
79107 (GOLD PLATED), 78787 (TIN PLATED)

RELEASED EC NO: S2015-1188 DRAWN:GMENARLY CHK'D:CGOH APPR:KHLIM	2015/04/15	DESCRIPTION 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
	2015/06/29			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	± ---	± ---								
				2 PLACES	± 0.20	± ---								
				1 PLACE	± ---	± ---	APPROVED BY KHLIM	DATE 2015/06/29	DOCUMENT NO. SD-87831-0001 SHEET NO. 6 OF 13					
				0 PLACE	± ---	± ---	MATERIAL NO.							
	ANGULAR ± 3 °				SIZE A3									
	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									

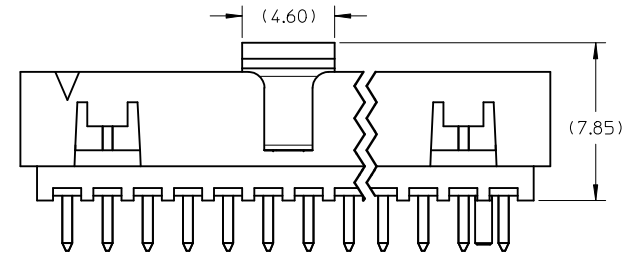
		10	9	8	7	6	5	4	3	2	1												
		8 CIRCUITS																					
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							F				
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G		H			
E	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	2.50					
		87831-0829	N.A	N.A	3																		
		87831-0841	N.A	87831-5551	2	N.A	YES	YES	N.A	N.A	N.A						2.50						
		87831-0842	N.A	N.A	3																		
		87831-5441	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						3.50						
		87831-5442	N.A	N.A	3																		
		N.A	87831-5541	N.A	2	N.A	YES	YES	N.A	N.A	N.A	2.80											
		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							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											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							2.50					
		87831-0845	N.A	N.A	2																		
		87831-0846	N.A	N.A	3																		
															C								
															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 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		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex				SHEET NO. 7 OF 13	A		
			DRAWN BY GMENARLY DATE 2015/04/15 CHECKED BY DATE 2015/06/29 APPROVED BY KHL IM DATE 2015/06/29		MATERIAL NO. SEE TABLE			DOCUMENT NO. SD-87831-0001															
						A	REV	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	E							
		87831-1020	N.A	N.A	2																						
		87831-1021	N.A	N.A	3																						
		87831-1036	N.A	N.A	4	N.A	N.A	YES	N.A	YES	N.A							3.50									
		87831-1010	N.A	N.A	2																						
		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	N.A	YES	YES	N.A	N.A	N.A	2.50																	
87831-1042	N.A	87831-5553	3								N.A	YES	YES	N.A	N.A	N.A	2.50										
87831-1032	N.A	N.A	2															N.A	YES	N.A	YES	N.A	N.A	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	N.A	YES	N.A	YES	N.A	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
		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	N.A	YES	YES	N.A	N.A	N.A	3.50															
		87831-1255	87831-1256	N.A	2															N.A	YES	YES	N.A	N.A	N.A		
		87831-1232	N.A	N.A	2								N.A	YES	N.A	YES	N.A	N.A	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		
		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															
		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.																		B					
RELEASED EC NO: S2015-1188 DRWN:GMENARLY CHKD:GGOH APPR:KHL IM 2015/04/15 2015/06/29 2015/06/29	DESCRIPTION			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								
					mm	INCH	DRAWN BY GMENARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER	SHEET NO. 8 OF 13																	
											CHECKED BY	DATE	APPROVED BY KHL IM	DATE 2015/06/29	DOCUMENT NO. SD-87831-0001												
					ANGULAR ± 3 °			MATERIAL NO.		SEE TABLE						INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3																			
								SEE TABLE		DOCUMENT NO.		SD-87831-0001															
			</																								

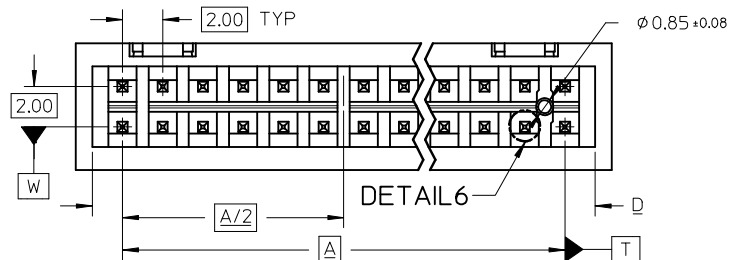
14 TO 50 CIRCUITS



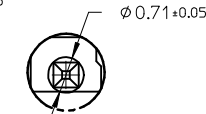
SECTION W-W



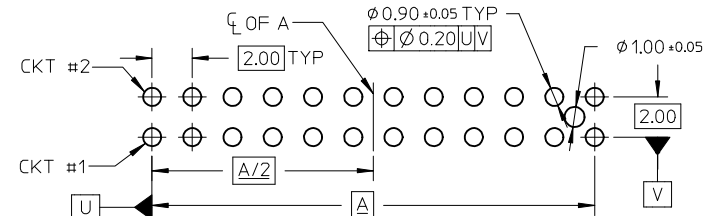
VIEW FOR HEADER WITH CAP



DETAIL 5



DETAIL 6



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	molex				
			2 PLACES	± 0.20	± ---	MATERIAL NO.	SEE TABLE					
			1 PLACE	± ---	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						
			0 PLACE	± ---	± ---							
					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			
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		
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																		
		87831-1428	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES										2.50	3.60±0.20	
		87831-1429	N.A	N.A	3																		
		87831-1435	N.A	N.A	3																		
		87831-1410	N.A	N.A	2																		
87831-1411	N.A	N.A	3	YES	N.A	YES	N.A	YES	N.A	3.50													
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																		
		87831-1628	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES										2.50	3.60±0.20	
		87831-1629	N.A	N.A	3																		
		87831-1635	N.A	N.A	3																		
		87831-1635	N.A	N.A	3																		
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																		
		87831-1828	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES										2.50	3.60±0.20	
		87831-1829	N.A	N.A	3																		
		87831-1829	N.A	N.A	3																		
		87831-1829	N.A	N.A	3																		
B	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	B			
		87831-2020	N.A	N.A	2																		
		87831-2021	N.A	N.A	3																		
		87831-2036	N.A	N.A	4																		
		87831-2028	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES										2.50	3.60±0.20	
		87831-2029	N.A	N.A	3																		
		87831-2035	N.A	N.A	3																		
		87831-2010	N.A	N.A	2																		
87831-2011	N.A	N.A	3	YES	N.A	YES	N.A	YES	N.A	3.50													
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 2015/04/15 DRAWN:GEMARLY 2015/06/29 CHKD:GGOH APPR:KHL IM 2015/06/29 A																							
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 DOCUMENT NO. SD-87831-0001 SHEET NO. 10 OF 13 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										
	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															
		87831-2228	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50		
	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															
		87831-2428	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-2429	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50		
		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										
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															
		87831-2628	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-2629	N.A	N.A	3	YES	N.A	YES	N.A	YES	N.A							3.50		
		87831-2610	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A									
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															
		87831-2828	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50		
		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															
		87831-3028	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-3029	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50		
		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									
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:GEMARLY CHKD:CGOH APPR:KHL IM		2015/04/15 2015/06/29 2015/06/29	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 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		SHEET NO. 11 OF 13		
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					A3														
	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									
		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	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-3228	N.A	N.A	2															
		87831-3229	N.A	N.A	3															
E	34	87831-3419	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	32.00	34.85	36.65	35.00	28.00	N.A	2.50	3.60±0.20	
		87831-3420	N.A	N.A	2															
		87831-3421	N.A	N.A	3															
		87831-3436	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-3428	N.A	N.A	2															
		87831-3429	N.A	N.A	3															
				87831-3435	N.A	N.A	3	YES	N.A	YES	N.A							YES		
D	36	87831-3619	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	34.00	36.85	38.65	37.00	30.00	N.A	2.50	3.60±0.20	
		87831-3620	N.A	N.A	2															
		87831-3621	N.A	N.A	3															
		87831-3636	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-3628	N.A	N.A	2															
		87831-3629	N.A	N.A	3															
C	38	87831-3819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	36.00	38.85	40.65	39.00	32.00	N.A	2.50	3.60±0.20	
		87831-3820	N.A	N.A	2															
		87831-3821	N.A	N.A	3															
		87831-3836	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-3828	N.A	N.A	2															
		87831-3829	N.A	N.A	3															
A	40	87831-4019	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	38.00	40.85	42.65	41.00	34.00	N.A	2.50	3.60±0.20	
		87831-4020	N.A	N.A	2															
		87831-4021	N.A	N.A	3															
		87831-4036	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50		
		87831-4028	N.A	N.A	2															
		87831-4029	N.A	N.A	3															
				87831-4010	N.A	N.A	2	YES	N.A	YES	N.A							YES		
B																				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																				A
fb_frame_A3_P_AM.T Rev. G 2012/01/11																				

	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. RELEASED EC NO: SZ015-1188 DRWNG:GMEARLY CHKD:CGOH APPR:KHL IM 2015/04/15 2015/06/29 2015/06/29 DESCRIPTION REV QUALITY SYMBOLS ▽A=0 ▽E=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 SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex DOCUMENT NO. SD-87831-0001 SHEET NO. 13 OF 13 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												