



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

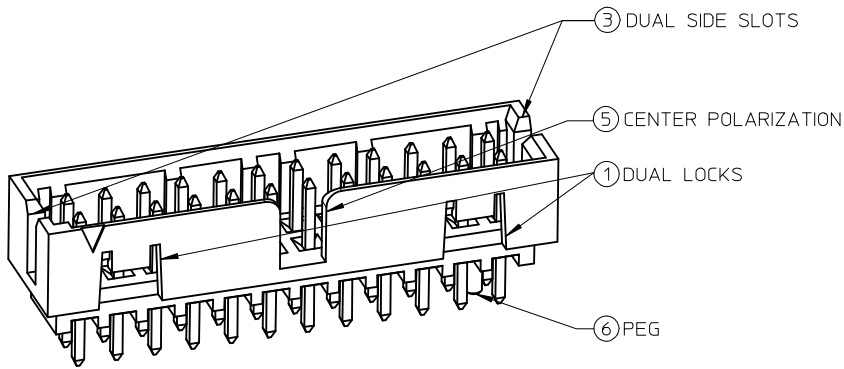
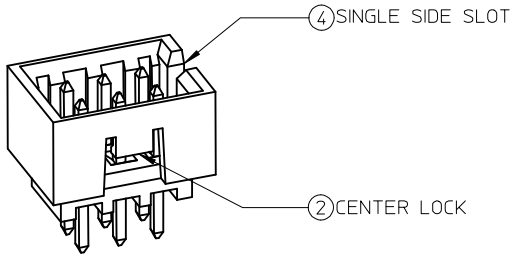
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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# FEATURES SELECTION GUIDE



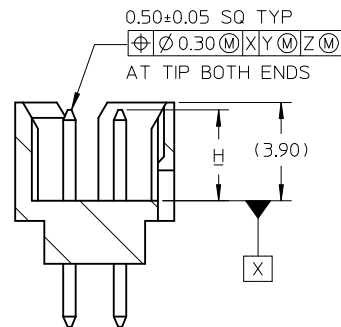
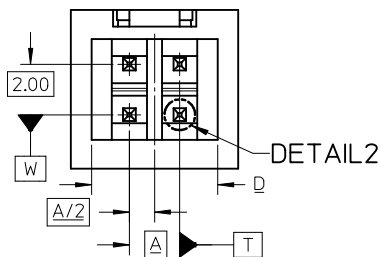
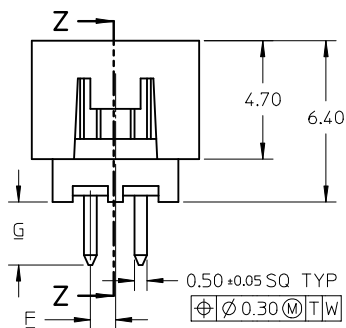
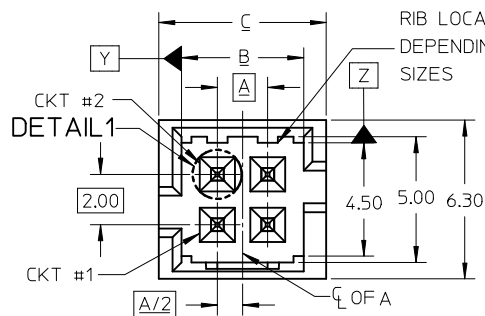
CIRCUIT SIZE	FEATURES						SHEET NO
	FRICTION LOCKS		SIDE SLOTS		5 CENTER POLARIZATION	6 PEG	
	1 DUAL	2 CENTER	3 DUAL	4 SINGLE			
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3
	N.A	YES	YES	N.A	N.A	N.A	
	N.A	YES	N.A	YES	N.A	N.A	
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5
	N.A	N.A	YES	N.A	N.A	YES	
	N.A	YES	YES	N.A	N.A	N.A	
	N.A	YES	YES	N.A	N.A	YES	
	N.A	YES	N.A	YES	N.A	YES	
	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	

## PACKAGING SPECIFICATION TABLE

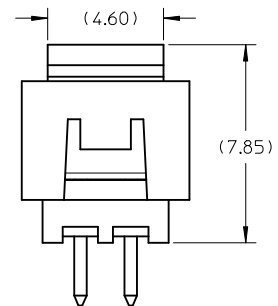
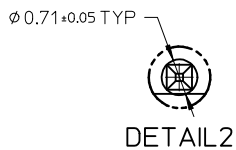
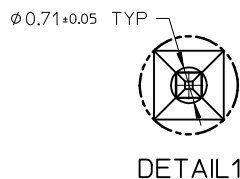
TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR:	PK-87831-002
87831-0419      87831-0645	
87831-5141      87831-0632	
87831-0443      87831-5119	
87831-5241      87831-1011	
87831-5242      87831-1420	
87831-0643	

<b>SEE SHEET 7 &amp; 10</b> EC NO: S2017-0526 DRW:GMENARLY 2017/03/22 CHK'D:CGOH 2017/04/17 APPR:KHLIM 2017/04/17 REV A7	QUALITY SYMBOLS $\nabla_{\sigma} = 0$ $\nabla_{\sigma} = 0$ $\nabla_{\sigma} = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </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>± 0.20</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>0 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± ---	1 PLACE	± ---	± ---	0 PLACE	± ---	± ---	DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>NTS</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION
		mm	INCH																					
	4 PLACES	± ---	± ---																					
	3 PLACES	± ---	± ---																					
2 PLACES	± 0.20	± ---																						
1 PLACE	± ---	± ---																						
0 PLACE	± ---	± ---																						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 3 °	DRAWN BY GMENARLY DATE 2015/04/15	CHECKED BY CGOH DATE 2015/06/29	APPROVED BY KHLIM DATE 2015/06/29	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER <b>molex</b>																		
		MATERIAL NO. <b>SEE TABLE</b>	DOCUMENT NO. <b>SD-87831-0001</b>		SHEET NO. 1 OF 13																			
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																						

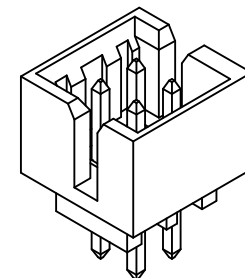
4 CIRCUITS



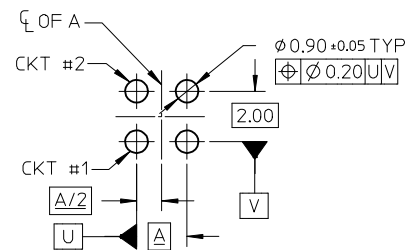
SECTION Z-Z



VIEW FOR HEADER WITH CAP



VIEW FOR HEADER WITH ONLY DUAL SLOTS



RECOMMENDED PCB LAYOUT

NOTES:

- 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: SEE PACKAGING SPECS TABLE ON SHEET 1
- 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)

SEE SHEET 7 & 10 EC NO: S2017-0526 DRWN:GMENARLY 2017/03/22 CHKD:CGOH 2017/04/17 APPR:KHLIM 2017/04/17	QUALITY SYMBOLS FA=0 FE=0 FP=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		mm	INCH	MM ONLY	NTS	METRIC		
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	DRAWN BY	DATE	TITLE		
		2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	GMENARLY	2015/04/15	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER		
0 PLACE ± --- ± ---	ANGULAR ± 3 °	CHECKED BY	DATE	molex				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY	DATE				MATERIAL NO.	DOCUMENT NO.
A7	REV	SEE TABLE		KHLIM	2015/06/29	SD-87831-0001	2 OF 13	
				SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
				A3				

4 CIRCUITS

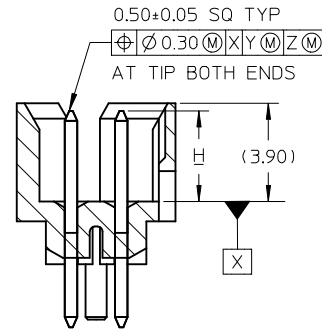
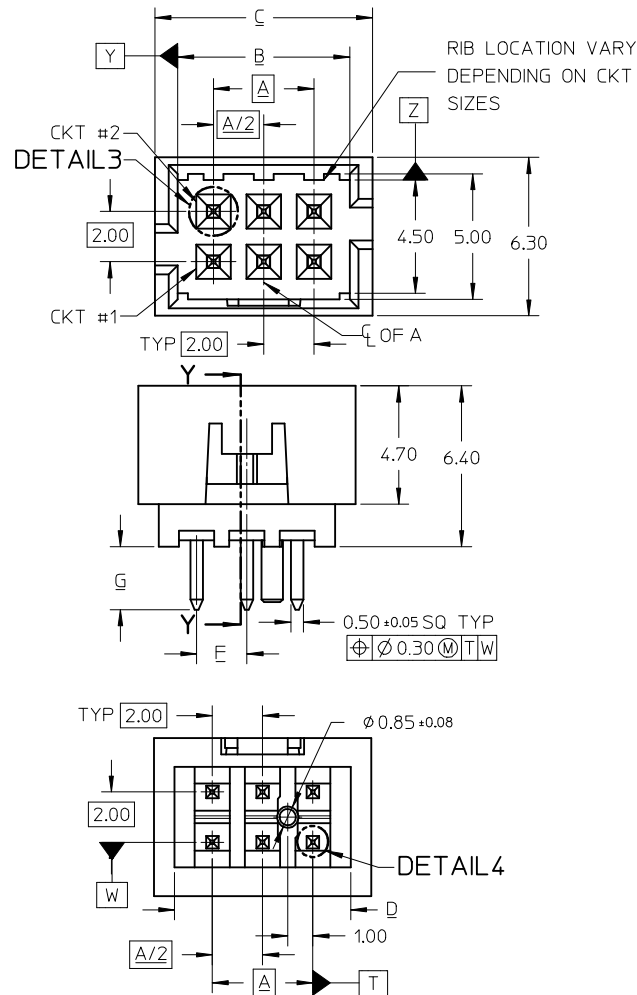
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
4	87831-0419	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	2.00	4.85	6.65	5.00	N.A	N.A	2.50	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						3.50		
	87831-5142	N.A	N.A	3														
	87831-6141	N.A	N.A	2														
	87831-6142	N.A	N.A	3	N.A	YES	YES	N.A	N.A	N.A						2.80		
87831-0443	N.A	N.A	2															
87831-0444	N.A	N.A	3	N.A	YES	N.A	YES	N.A	N.A	2.50	3.60 <sup>+0.15</sup> <sub>-0.10</sub>							

PLATING OPTIONS:

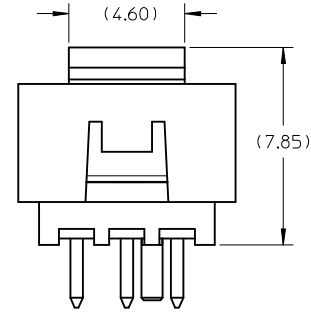
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTETIN 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.

SEE SHEET 7 & 10 EC NO: S2017-0526 DRWN:GMENARLY 2017/03/22 CHYKD:CGOH 2017/04/17 APPR:KHLIM 2017/04/17	DESCRIPTION REV A7	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		$F_A=0$ $F_G=0$ $F_P=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	MM ONLY	NTS	METRIC	DRAWN BY GMENARLY DATE 2015/04/15 CHECKED BY CGOH DATE 2015/06/29 APPROVED BY KHLIM DATE 2015/06/29	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER
		ANGULAR ± 3 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE	SD-87831-0001	3 OF 13		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

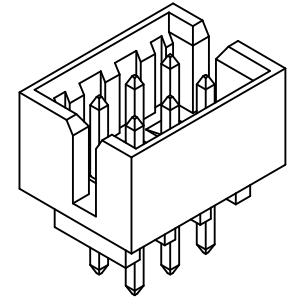
6 CIRCUITS



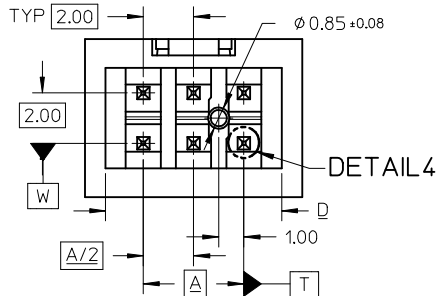
SECTION Y-Y



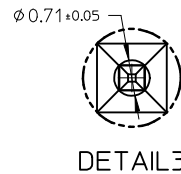
VIEW FOR  
HEADER WITH CAP



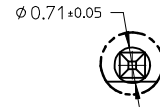
VIEW FOR HEADER WITH  
ONLY DUAL SLOTS



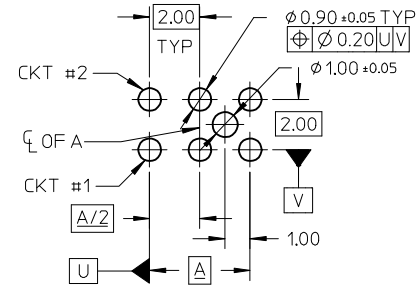
DETAIL 4



DETAIL 3



DETAIL 4



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: SEE PACKAGING SPECS TABLE ON SHEET 1
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)


SEE SHEET 7 & 10 IEC NO: S2017-0526 DRAWN: GEMENARLY 2017/03/22 CHKD: CGOH 2017/04/17 APPR: KHLIM 2017/04/17	QUALITY SYMBOLS F=0 E=0 E=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY DATE GEMENARLY 2015/04/15		
		4 PLACES	± ---	± ---	CHECKED BY DATE CGOH 2015/06/29			TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER
		3 PLACES	± ---	± ---	APPROVED BY DATE KHLIM 2015/06/29			
2 PLACES	± 0.20	± ---	MATERIAL NO.			DOCUMENT NO. SD-87831-0001	SHEET NO. 4 OF 13	
1 PLACE	± ---	± ---	SEE TABLE					
0 PLACE	± ---	± ---	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		

6 CIRCUITS

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												
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H					
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					
	87831-0620	N.A	N.A	2																			
	87831-0621	N.A	N.A	3																			
	87831-0636	N.A	N.A	4	N.A	N.A	YES	N.A	N.A	YES						N.A	N.A		N.A	N.A	N.A	2.50	3.60±0.20
	87831-0628	N.A	N.A	2																			
	87831-0629	N.A	N.A	3																			
	87831-0641	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	2.50	3.60±0.20
	87831-0642	N.A	87831-5552	3																			
	87831-5241	N.A	N.A	2																			
	87831-5242	N.A	N.A	3	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	2.50	3.60±0.20
	87831-6241	N.A	N.A	2																			
	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	N.A		N.A	N.A	N.A	2.50	3.60±0.20
	87831-0644	N.A	N.A	3																			
	87831-0645	N.A	N.A	2																			
87831-0646	N.A	N.A	3	N.A	YES	N.A	YES	N.A	N.A	YES	N.A	N.A	N.A	N.A	2.50	3.60±0.20							
87831-0632	N.A	N.A	2																				
87831-5119	N.A	N.A	1														N.A	N.A	YES	N.A	YES	N.A	N.A

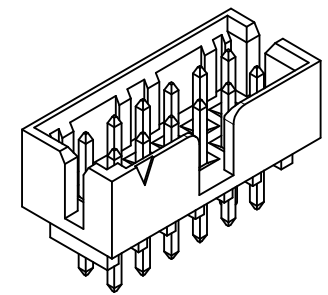
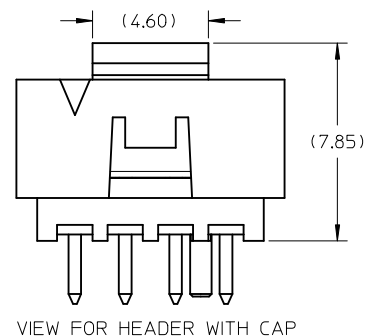
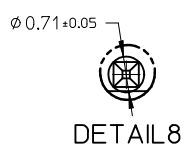
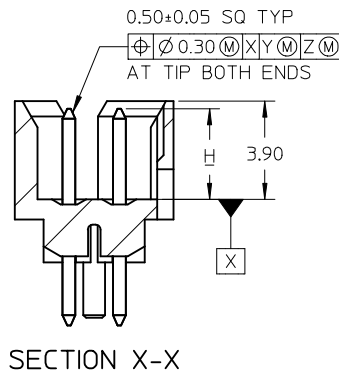
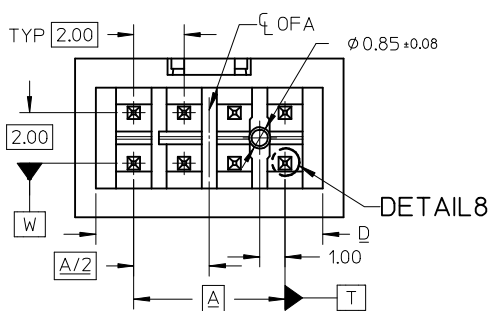
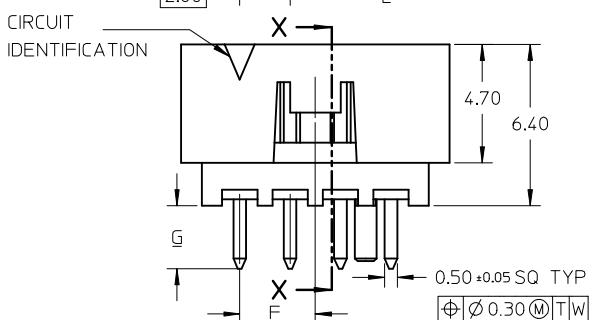
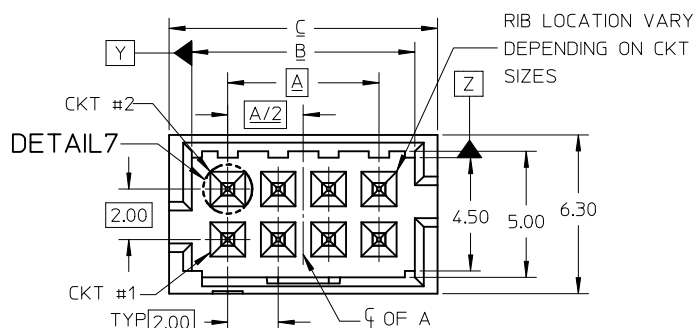
PLATING OPTIONS:

- 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.
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- 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

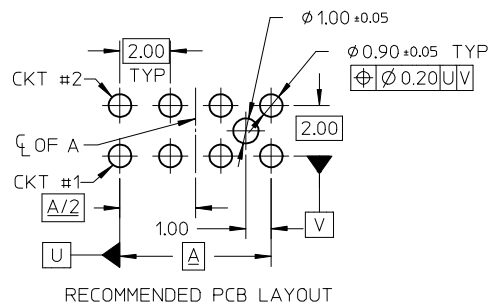
SEE SHEET 7 & 10 EC NO: S2017-0526 DRWN:GMENARLY 2017/03/22 CHYKD:CGOH 2017/04/17 APPR:KHLIM 2017/04/17	DESCRIPTION QUALITY SYMBOLS $F_A=0$ $F_G=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY GMENARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER			
			4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	CHECKED BY CGOH	DATE 2015/06/29	 DOCUMENT NO. SD-87831-0001 SHEET NO. 5 OF 13			
			2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	APPROVED BY KHLIM	DATE 2015/06/29				
	0 PLACE ± --- ± ---	ANGULAR ± 3 °		MATERIAL NO.		SEE TABLE				
	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					



8 TO 12 CIRCUITS



VIEW FOR HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



- 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: SEE PACKAGING SPECS TABLE ON SHEET 1
  - 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)

SEE SHEET 7 & 10 EC NO: S2017-0526 DRWN:GMENARLY 2017/03/22 CHKD:CGOH 2017/04/17 APPR:KHLIM 2017/04/17	QUALITY SYMBOLS FA=0 FE=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 CGOH	DATE 2015/06/29	molex		
		3 PLACES	± ---	± ---	APPROVED BY KHLIM	DATE 2015/06/29			
	2 PLACES	± 0.20	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87831-0001	SHEET NO. 6 OF 13		
	1 PLACE	± ---	± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
	0 PLACE	± ---	± ---						
	ANGULAR ± 3 °								
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								

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						
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G
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
	87831-0820	N.A	N.A	2														
	87831-0821	N.A	N.A	3														
	87831-0836	N.A	N.A	4	N.A	N.A	YES	N.A	YES	YES	YES						N.A	2.50
	87831-0828	N.A	N.A	2														
	87831-0829	N.A	N.A	3														
	87831-0841	N.A	87831-5551	2	N.A	YES	YES	N.A	N.A	N.A	N.A						3.00	2.50
	87831-0842	N.A	N.A	3														
	87831-5841	N.A	N.A	2														
	87831-5441	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A	N.A						3.50	3.60±0.20
	87831-5442	N.A	N.A	3														
	87831-5541	N.A	N.A	2														
	87831-5542	N.A	N.A	3	N.A	YES	YES	N.A	N.A	N.A	N.A						2.80	4.70
	87831-5741	N.A	N.A	2														
	87831-5742	N.A	N.A	3														
87831-0832	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A	YES	2.50	3.60 <sup>+0.15</sup> <sub>-0.10</sub>						
87831-0843	N.A	N.A	2															
87831-0844	N.A	N.A	3															
87831-0845	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A	YES	2.50	3.60 <sup>+0.15</sup> <sub>-0.10</sub>						
87831-0846	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.

ADD P/N 87831-5841 EC NO: S2017-0526 DRWNG: GEMEARLY 2017/03/22 CHK'D: CGOH 2017/04/17 APPR: KHL IM 2017/04/17	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
		$F_A = 0$ $F_G = 0$ $F_P = 0$	mm	INCH	MM ONLY	NTS	METRIC	DRAWN BY: GMENARLY 2015/04/15 CHECKED BY: CGOH 2015/06/29 APPROVED BY: KHL IM 2015/06/29 MATERIAL NO. SEE TABLE DOCUMENT NO. SD-87831-0001	TITLE: MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER  <b>molex</b>	SHEET NO. 7 OF 13	
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	0 PLACE ± --- ± ---					
		ANGULAR ± 3 °					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
A7		A3									



10 TO 12 CIRCUITS

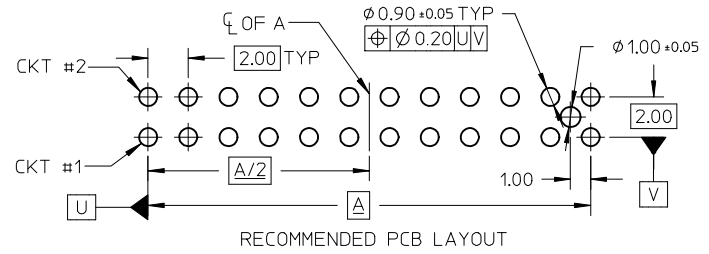
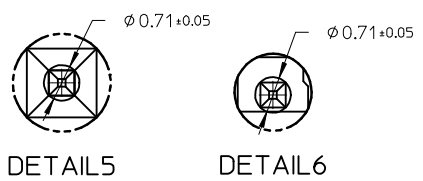
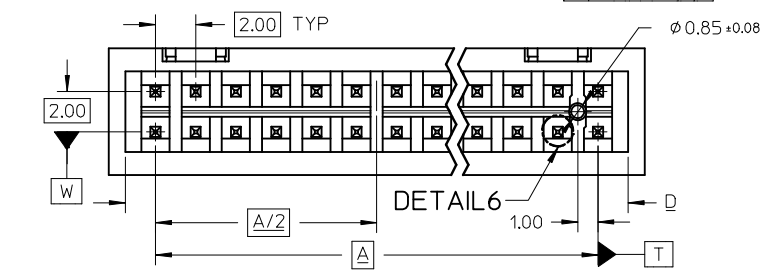
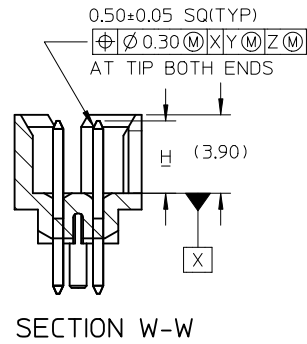
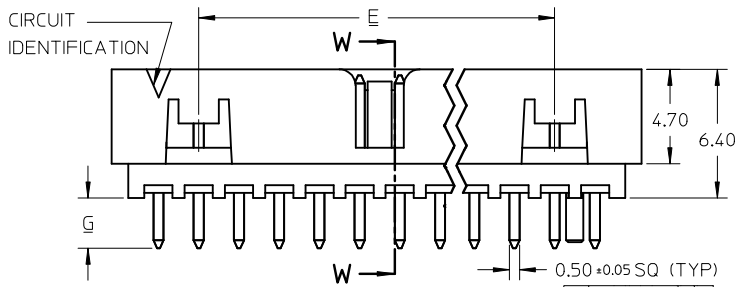
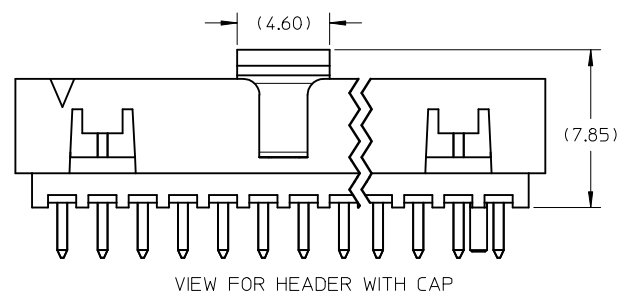
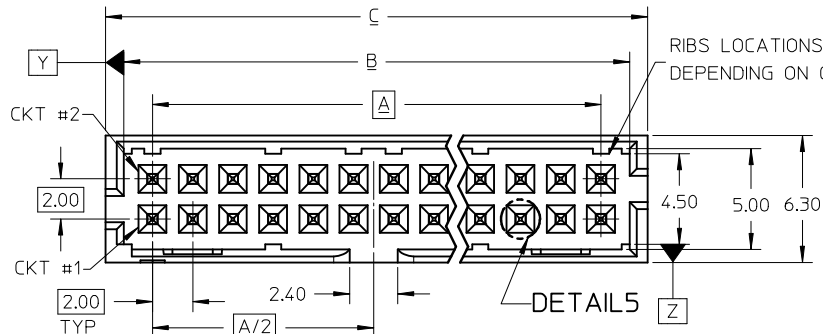
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
10	87831-1019	N.A	N.A	1	N.A	N.A	YES	N.A	YES	N.A	8.00	10.85	12.65	11.00	N.A	N.A	2.50	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								
	87831-1011	N.A	N.A	3														
	87831-1028	N.A	N.A	2														
	87831-1029	N.A	87831-5557	3	N.A	N.A	YES	N.A	YES	YES								
	87831-1035	N.A	N.A	3														
	87831-1041	N.A	N.A	2														
	87831-1042	N.A	87831-5553	3	N.A	YES	YES	N.A	N.A	N.A								
	87831-1032	N.A	N.A	2														
87831-1043	N.A	N.A	2															
87831-1044	N.A	N.A	3	N.A	YES	N.A	YES	N.A	N.A									
87831-1045	N.A	N.A	2															
87831-1046	N.A	N.A	3															
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	87831-5556	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								
	87831-1229	N.A	87831-5558	3														
	87831-1241	N.A	N.A	2														
	87831-1242	N.A	N.A	3	N.A	YES	YES	N.A	N.A	N.A								
	87831-1255	87831-1256	N.A	2														
	87831-1232	N.A	N.A	2														
	87831-1243	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A								
	87831-1244	N.A	N.A	3														
87831-1245	N.A	N.A	2															
87831-1246	N.A	N.A	3	N.A	YES	N.A	YES	N.A	YES									

**PLATING OPTIONS:**

- 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.
- 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.
- 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.
- 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.

SEE SHEET 7 & 10 EC NO: S2017-0526 DRWN:GMENARLY 2017/03/22 CHKD:CGOH 2017/04/17 APPR:KHL IM 2017/04/17	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
		$F_A=0$	mm	INCH	MM ONLY		NTS	METRIC			
		$F_G=0$	4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	DRAWN BY	DATE	TITLE				
		$F_P=0$	2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	GMENARLY	2015/04/15	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER <b>molex</b>				
	0 PLACE ± --- ± ---	CGOH	2015/06/29								
		ANGULAR ± 3 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.	DOCUMENT NO.		SHEET NO.			
					SEE TABLE	SD-87831-0001		8 OF 13			
					SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

14 TO 50 CIRCUITS



- 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: SEE PACKAGING SPECS TABLE ON SHEET 1
  - 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)


SEE SHEET 7 & 10 EC NO: S2017-0526 DRWN: GMENARLY 2017/03/22 CHKD: CGOH 2017/04/17 APPR: KHL IM 2017/04/17	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 GMENARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER				
			4 PLACES	± ---	± ---	CHECKED BY CGOH	DATE 2015/06/29				
			3 PLACES	± ---	± ---	APPROVED BY KHL IM	DATE 2015/06/29				
	2 PLACES	± 0.20	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
	1 PLACE	± ---	± ---	SEE TABLE		SD-87831-0001		9 OF 13			
	0 PLACE	± ---	± ---	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	

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																			
						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												
	87831-1420	87831-1430	87831-5554	2																											
	87831-1421	N.A	87831-5560	3																											
	87831-1436	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES	N.A							12.00		14.85	16.65	15.00	8.00	N.A	2.50	3.60±0.20					
	87831-1428	N.A	N.A	2																											
	87831-1429	N.A	N.A	3																											
	87831-1435	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	N.A							12.00		14.85	16.65	15.00	8.00	N.A	3.50	3.60±0.20					
87831-1410	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A	12.00	14.85	16.65	15.00	8.00	N.A	3.50															
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												
	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	N.A							14.00		16.85	18.65	17.00	10.00	N.A	2.50						
	87831-1628	N.A	N.A	2																											
	87831-1629	N.A	87831-5559	3																											
87831-1635	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	N.A	14.00	16.85	18.65	17.00	10.00	N.A	3.50														
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						
	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	N.A							16.00	18.85	20.65	19.00	12.00	N.A	2.50							
	87831-1828	N.A	N.A	2																											
	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						
	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	N.A							18.00	20.85	22.65	21.00	14.00	N.A	2.50							
	87831-2028	N.A	N.A	2																											
	87831-2029	N.A	N.A	3																											
	87831-2035	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	N.A													18.00		20.85	22.65	21.00	14.00	N.A	3.50
	87831-2010	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A	18.00													20.85		22.65	21.00	14.00	N.A	3.50	
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.

ADD 87831-5560 EC NO: S2017-0526 DRWG:GMENARLY 2017/03/22 CHKD:CGOH 2017/04/17 APPR:KHLIM 2017/04/17	QUALITY SYMBOLS $F_A=0$ $F_G=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
				MM ONLY		NTS	METRIC				
				mm	INCH	DRAWN BY	DATE	TITLE			
						GMENARLY	2015/04/15	MILLIGRID			
				3 PLACES ± --- ± ---		CHECKED BY	DATE	2MM PITCH, THROUGH HOLE			
				2 PLACES ± 0.20 ± ---		CGOH	2015/06/29	VERTICAL SHROUDED HEADER			
				1 PLACE ± --- ± ---		APPROVED BY	DATE				
				0 PLACE ± --- ± ---		KHLIM	2015/06/29				
				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87831-0001		10 OF 13	
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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												
						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																					
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																				
	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														
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	87831-2630	87831-5555	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																				
87831-2610	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A	3.50														
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																					
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																				
	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														

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.

SEE SHEET 7 & 10 EC NO: S2017-0526 DRWN:GMENARLY 2017/03/22 CHKD:CGOH 2017/04/17 APPR:KHL IM 2017/04/17	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)
	$\nabla_A = 0$	mm INCH
	$\nabla_B = 0$	4 PLACES ± --- ± ---
	$\nabla_C = 0$	3 PLACES ± --- ± ---
		2 PLACES ± 0.20 ± ---
		1 PLACE ± --- ± ---
		0 PLACE ± --- ± ---
		ANGULAR ± 3 °
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY	NTS	METRIC	
DRAWN BY	DATE	TITLE	
GMENARLY	2015/04/15	MILLIGRID	
CHECKED BY	DATE	2MM PITCH, THROUGH HOLE	
CGOH	2015/06/29	VERTICAL SHROUDED HEADER	
APPROVED BY	DATE	<b>molex</b>	
KHL IM	2015/06/29		
MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
SEE TABLE	SD-87831-0001	11 OF 13	

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

32 TO 40 CIRCUITS

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							
					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														
87831-3229	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	2.50								
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														
	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	YES	3.50								
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														
	87831-3628	N.A	N.A	2														
	87831-3629	N.A	N.A	3														
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														
	87831-3828	N.A	N.A	2														
	87831-3829	N.A	N.A	3														
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														
	87831-4028	N.A	N.A	2														
	87831-4029	N.A	N.A	3														
	87831-4010	N.A	N.A	2														

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.

SEE SHEET 7 & 10 EC NO: S2017-0526 DRW:GMENARLY 2017/03/22 CHKD:CGOH 2017/04/17 APPR:KHLIM 2017/04/17	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	▽ <sub>A</sub> =0	mm	INCH	MM ONLY		NTS	METRIC	MILLIGRID	
	▽ <sub>E</sub> =0	4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	DRAWN BY	DATE	TITLE			
	▽ <sub>F</sub> =0	2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	GMENARLY	2015/04/15	2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER			
	0 PLACE ± --- ± ---	ANGULAR ± 3 °		CHECKED BY	DATE	molex			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE		CGOH	2015/06/29	SD-87831-0001		SHEET NO. 12 OF 13	
				APPROVED BY	DATE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
				KHLIM	2015/06/29				
				MATERIAL NO.	DOCUMENT NO.				
				SIZE					
				A3					

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																					
87831-4229	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	2.50															
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																					
	87831-4429	N.A	N.A	3															YES	N.A	YES	N.A	YES	YES	2.50
87831-4435	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	3.50															
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																					
	87831-4629	N.A	N.A	3															YES	N.A	YES	N.A	YES	YES	2.50
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																					
	87831-4829	N.A	N.A	3															YES	N.A	YES	N.A	YES	YES	2.50
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																					
	87831-5029	N.A	N.A	3															YES	N.A	YES	N.A	YES	YES	2.50
	87831-5035	N.A	N.A	3															YES	N.A	YES	N.A	YES	YES	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.

SEE SHEET 7 & 10 IEC NO: S2017-0526 DRWNG:GMENARLY 2017/03/22 CHK'D:CGOH 2017/04/17 APPR:KHLIM 2017/04/17	QUALITY SYMBOLS $\nabla_F = 0$ $\nabla_E = 0$ $\nabla_D = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
				MM ONLY		NTS	METRIC				
				mm	INCH	DRAWN BY DATE		TITLE			
						GMENARLY 2015/04/15		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER			
				3 PLACES ± --- ± ---		CHECKED BY DATE		<b>molex</b> DOCUMENT NO. SD-87831-0001 SHEET NO. 13 OF 13			
				2 PLACES ± 0.20 ± ---		CGOH 2015/06/29					
				1 PLACE ± --- ± ---		APPROVED BY DATE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
				0 PLACE ± --- ± ---		KHLIM 2015/06/29					
				ANGULAR ± 3°		MATERIAL NO.					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE					