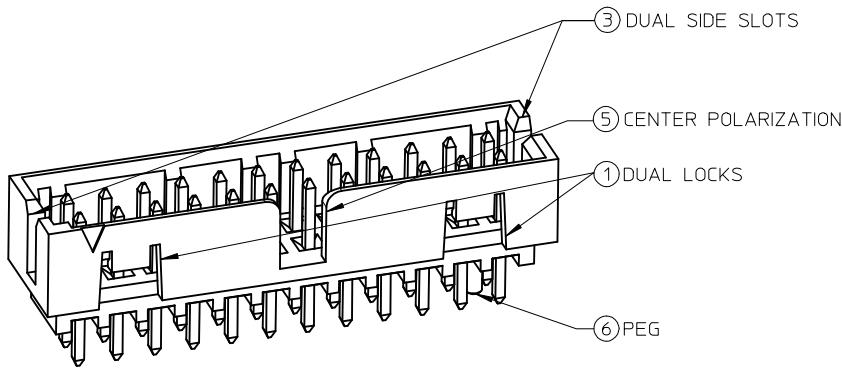
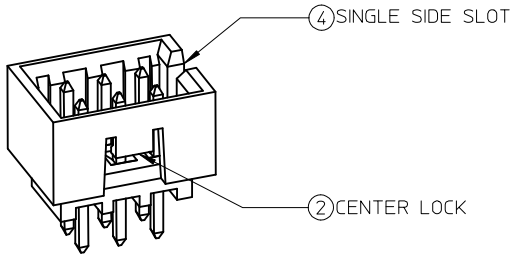


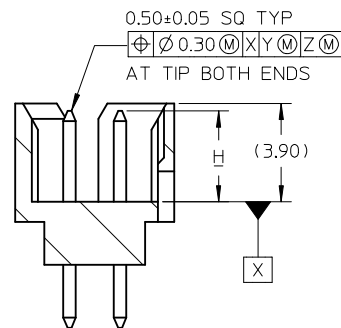
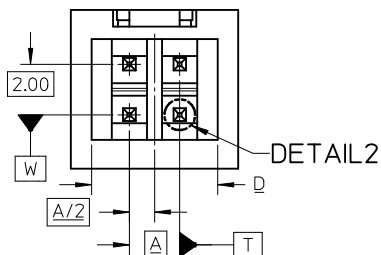
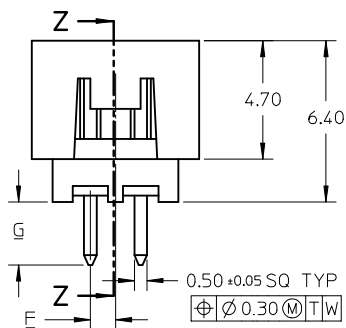
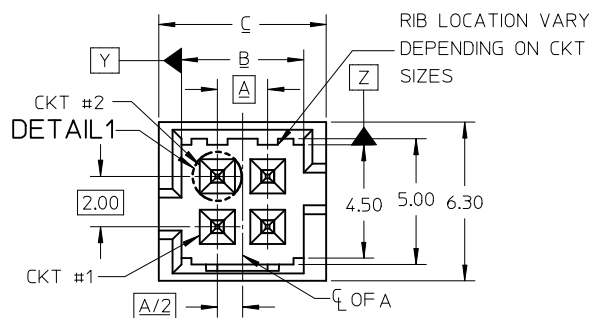
# FEATURES SELECTION GUIDE



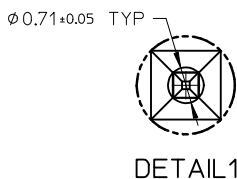
CIRCUIT SIZE	FEATURES						SHEET NO
	FRICTION LOCKS		SIDE SLOTS		⑤ CENTER POLARIZATION	⑥ PEG	
	① DUAL	② CENTER	③ DUAL	④ SINGLE			
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3
	N.A	YES	YES	N.A	N.A	N.A	
	N.A	YES	N.A	YES	N.A	N.A	
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5
	N.A	N.A	YES	N.A	N.A	YES	
	N.A	YES	YES	N.A	N.A	N.A	
	N.A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

SEE SHEET 7 EC NO: S2016-1147 DRAWN: GMENARLY 2016/06/23 CHK'D: SCHEONG 2016/06/28 APPR: KHLIM 2016/06/29	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	$F_{\sigma} = 0$	mm	INCH	DRAWN BY GMENARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER			
	$F_{\sigma} = 0$	4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	CHECKED BY CGOH	DATE 2015/06/29	<b>molex</b>			
	$F_{\sigma} = 0$	2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	APPROVED BY KHLIM	DATE 2015/06/29				
REV	DESCRIPTION	ANGULAR ± 3 °		MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
A4		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE	SD-87831-0001	1 OF 13			
				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

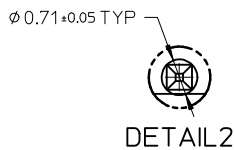
4 CIRCUITS



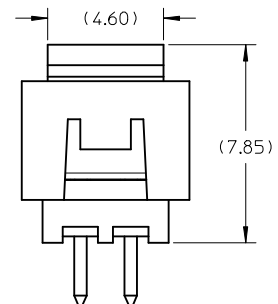
SECTION Z-Z



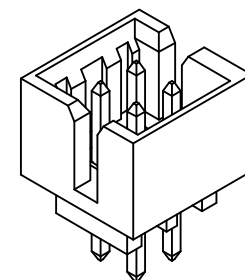
DETAIL 1



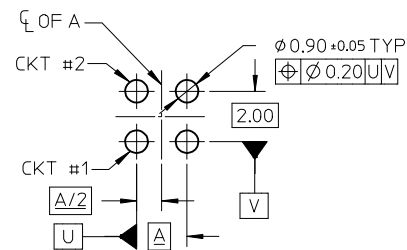
DETAIL 2



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:  
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)

SEE SHEET 7 EC NO: S2016-1147 DRW: GMENARLY CHKD: SCHEONG APPR: KHL IM	2016/06/23 2016/06/28 2016/06/29	QUALITY SYMBOLS F <sub>A</sub> =0 F <sub>E</sub> =0 F <sub>P</sub> =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY 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					
			2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	APPROVED BY KHL IM	DATE 2015/06/29					
ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87831-0001		SHEET NO. 2 OF 13			
SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

4 CIRCUITS

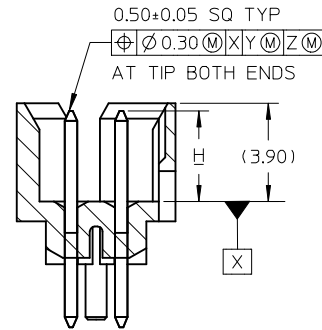
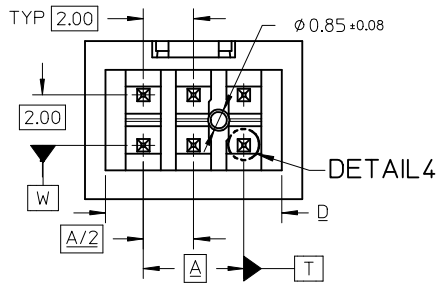
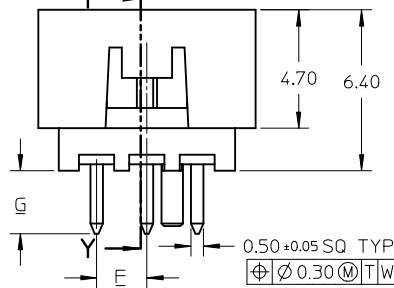
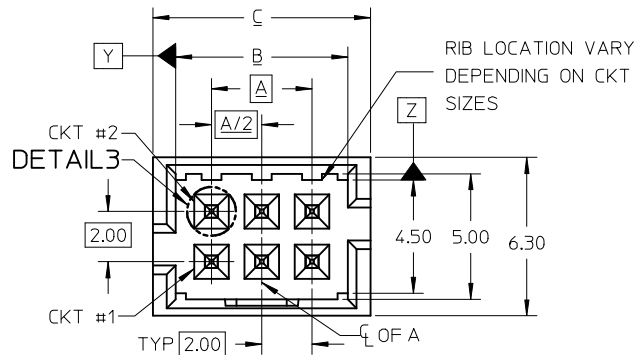
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
4	87831-0419	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	2.00	4.85	6.65	5.00	N.A	N.A	2.50	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	N.A	YES	YES	N.A	N.A	N.A						2.80		
	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								
87831-0444	N.A	N.A	3															

PLATING OPTIONS:

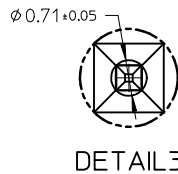
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. 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 EC NO: S2016-1147 DRW:GMENARLY 2016/06/23 CHKD:SCHEONG 2016/06/28 APPR:KHLIM 2016/06/29	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		$F_A=0$	mm	INCH	DRAWN BY GMENARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER <b>molex</b> DOCUMENT NO. SD-87831-0001 SHEET NO. 3 OF 13				
		$F_G=0$	4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	CHECKED BY CGOH	DATE 2015/06/29					
		$F_P=0$	2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	APPROVED BY KHLIM	DATE 2015/06/29					
	0 PLACE ± --- ± ---	MATERIAL NO.									
A4	REV	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					

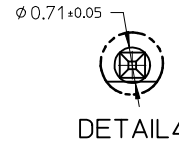
6 CIRCUITS



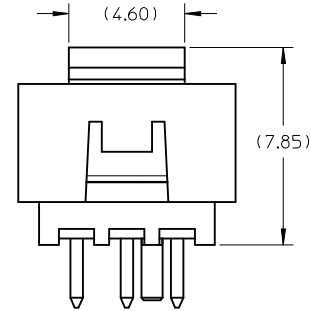
SECTION Y-Y



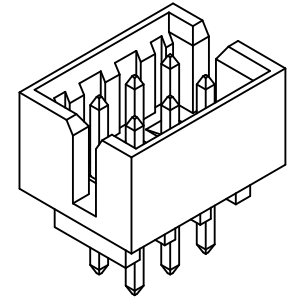
DETAIL 3



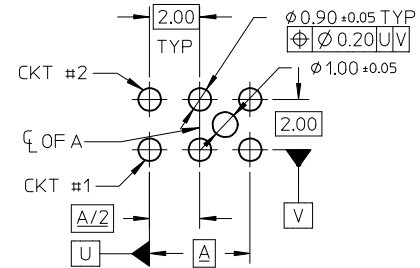
DETAIL 4



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:  
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)

SEE SHEET 7 IEC NO: S2016-1147 DRAWN: GEMARLY 2016/06/23 CHKD: SCHEONG 2016/06/28 APPR: KHLIM 2016/06/29	QUALITY SYMBOLS F <sub>A</sub> =0 F <sub>B</sub> =0 F <sub>C</sub> =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
			mm	INCH	DRAWN BY GMENARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER	
		4 PLACES	±---	±---	CHECKED BY CGOH	DATE 2015/06/29	DOCUMENT NO. SD-87831-0001	
		3 PLACES	±---	±---	APPROVED BY KHLIM	DATE 2015/06/29		
			0 PLACE	±---	±---	MATERIAL NO.		
			ANGULAR ± 3°		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			

6 CIRCUITS

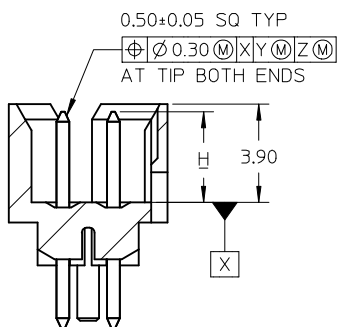
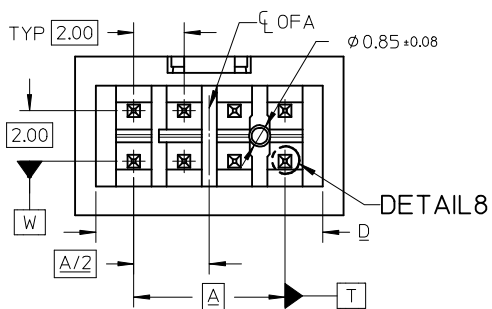
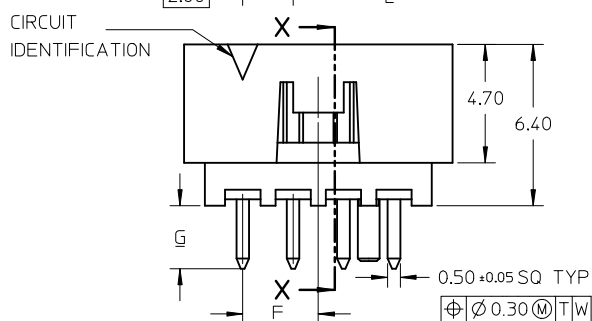
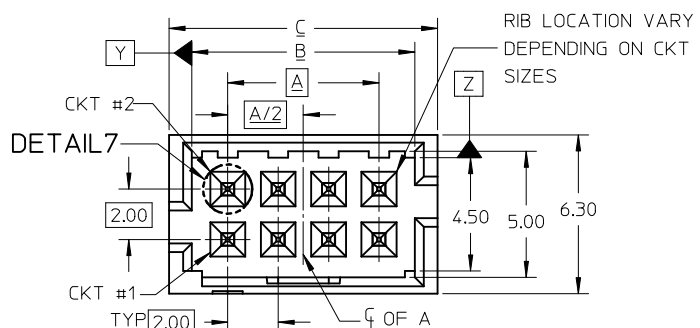
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
6	87831-0619	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	4.00	6.85	8.65	7.00	N.A	N.A	2.50	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	2.50	
	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						2.50		
	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						3.50		
	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						2.80		
	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	YES	2.50								
87831-0632	N.A	N.A	2															
87831-5119	N.A	N.A	1															

PLATING OPTIONS:

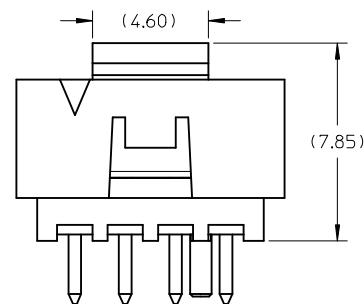
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin GOLD IN CONTACT 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 EC NO: S2016-1147 DRWN:GMENARLY 2016/06/23 CHKD:SCHEONG 2016/06/28 APPR:KHLIM 2016/06/29	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 ± --- ± ---	DRAWN BY DATE	TITLE	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER <b>molex</b> DOCUMENT NO. SD-87831-0001 SHEET NO. 5 OF 13		
		$F_P=0$	3 PLACES ± --- ± ---	CHECKED BY DATE				
	2 PLACES ± 0.20 ± ---	APPROVED BY DATE						
	1 PLACE ± --- ± ---	MATERIAL NO.						
		0 PLACE ± --- ± ---	SEE TABLE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

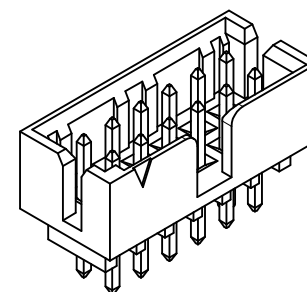
8 TO 12 CIRCUITS



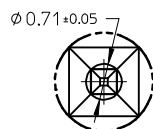
SECTION X-X



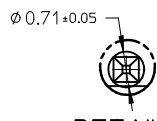
VIEW FOR HEADER WITH CAP



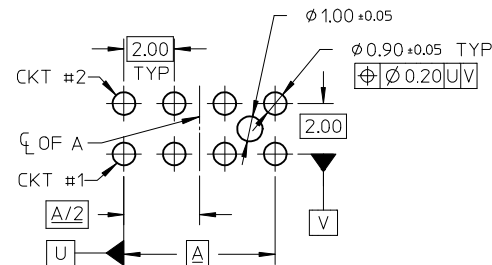
VIEW FOR HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



DETAIL 7



DETAIL 8



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)

SEE SHEET 7 EC NO: S2016-1147 DRWN:GMENARLY 2016/06/23 CHKD:SCHEONG 2016/06/28 APPR:KHLIM 2016/06/29	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
			mm	INCH	MM ONLY		NTS	METRIC			
		$\nabla_A=0$	4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE			
		$\nabla_B=0$	3 PLACES	± ---	± ---	CHECKED BY	DATE	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER			
$\nabla_C=0$	2 PLACES	± 0.20	± ---	APPROVED BY	DATE						
$\nabla_D=0$	1 PLACE	± ---	± ---	KHLIM 2015/06/29		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
	0 PLACE	± ---	± ---	SEE TABLE		SD-87831-0001		6 OF 13			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			ANGULAR ± 3 °		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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	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								
	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	YES						N.A	N.A		N.A	N.A	N.A	N.A	2.50	N.A		
	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						N.A	N.A		N.A	N.A	N.A	N.A	N.A	2.50	N.A	
	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		N.A	N.A	N.A	N.A	N.A	N.A	2.50	N.A
	87831-5442	N.A	N.A	3																							
	87831-5541	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	N.A	N.A	N.A	N.A	2.50	N.A
	87831-5542	N.A	N.A	3																							
87831-5741	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	N.A	N.A	N.A	N.A	N.A	2.50	N.A						
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	YES	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	2.50	N.A						
87831-0843	N.A	N.A	2																								
87831-0844	N.A	N.A	3	N.A	YES	N.A	YES	N.A	N.A	N.A	YES	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	2.50	3.60 <sup>+0.15</sup> <sub>-0.10</sub>						
87831-0845	N.A	N.A	2																								
87831-0846	N.A	N.A	3	N.A	YES	N.A	YES	N.A	N.A	YES	YES	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	2.50	N.A						

- 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.

<p><b>CORRECT 87831-554*</b></p> <p>EC NO: S2016-1147                  DRWNG: GEMEARLY 2016/06/23                  CHK'D: SCHEONG 2016/06/28                  APPR: KHL IM 2016/06/29</p>	<p>QUALITY SYMBOLS</p> <p>▽<sub>A</sub>=0                  ▽<sub>B</sub>=0                  ▽<sub>C</sub>=0</p>	<p>GENERAL TOLERANCES (UNLESS SPECIFIED)</p>		<p>DIMENSION STYLE</p> <p><b>MM ONLY</b></p>		<p>SCALE</p> <p>NTS</p>	<p>DESIGN UNITS</p> <p>METRIC</p>	<p>THIRD ANGLE PROJECTION</p>	
		<p>4 PLACES ± --- ± ---</p> <p>3 PLACES ± --- ± ---</p> <p>2 PLACES ± 0.20 ± ---</p> <p>1 PLACE ± --- ± ---</p> <p>0 PLACE ± --- ± ---</p>	<p>mm</p> <p>INCH</p>	<p>DRAWN BY</p> <p>GMENARLY</p>	<p>DATE</p> <p>2015/04/15</p>	<p>TITLE</p> <p>MILLIGRID                  2MM PITCH, THROUGH HOLE                  VERTICAL SHROUDED HEADER</p>			
		<p>ANGULAR ± 3 °</p>		<p>CHECKED BY</p> <p>CGOH</p>	<p>DATE</p> <p>2015/06/29</p>	<p><b>molex</b></p>			
		<p>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</p>		<p>APPROVED BY</p> <p>KHL IM</p>	<p>DATE</p> <p>2015/06/29</p>	<p>MATERIAL NO.</p> <p>SEE TABLE</p>	<p>DOCUMENT NO.</p> <p>SD-87831-0001</p>	<p>SHEET NO.</p> <p>7 OF 13</p>	

10 TO 12 CIRCUITS

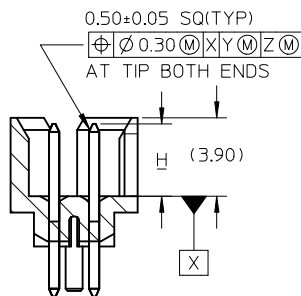
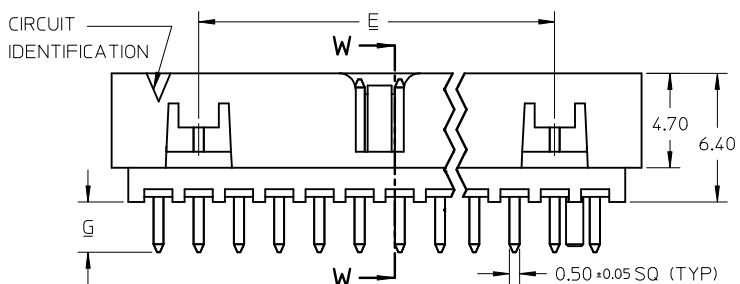
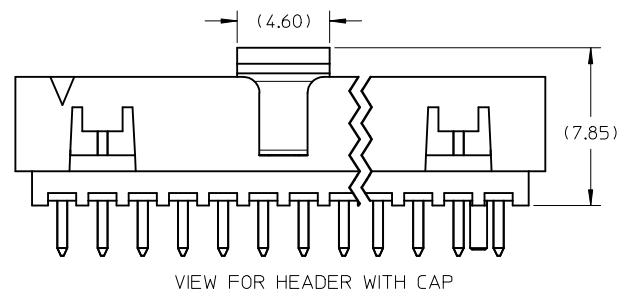
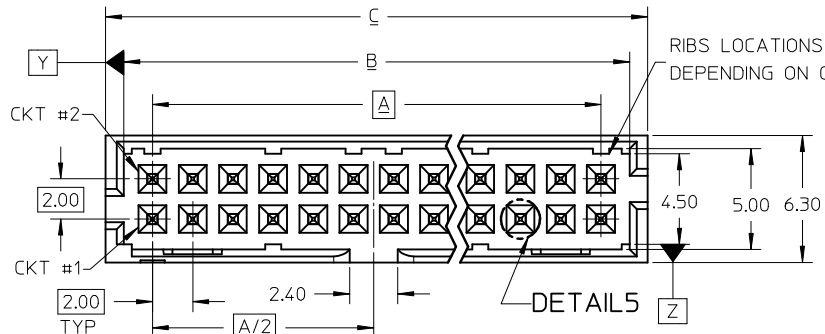
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
10	87831-1019	N.A	N.A	1	N.A	N.A	YES	N.A	YES	N.A	8.00	10.85	12.65	11.00	N.A	N.A	2.50	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														
	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														
	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														
	87831-1032	N.A	N.A	2														
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															
87831-1045	N.A	N.A	2															
87831-1046	N.A	N.A	3	N.A	YES	N.A	YES	N.A	YES	2.50								
87831-1219	N.A	N.A	1															
87831-1220	N.A	87831-5556	2															
12	87831-1221	N.A	N.A	3	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
	87831-1236	N.A	N.A	4														
	87831-1228	N.A	N.A	2														
	87831-1229	N.A	N.A	3														
	87831-1241	N.A	N.A	2														
	87831-1242	N.A	N.A	3														
	87831-1255	87831-1256	N.A	2	N.A	YES	YES	N.A	N.A	N.A						3.50		
	87831-1232	N.A	N.A	2														
	87831-1243	N.A	N.A	2														
	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														
	87831-1246	N.A	N.A	3														

PLATING OPTIONS:

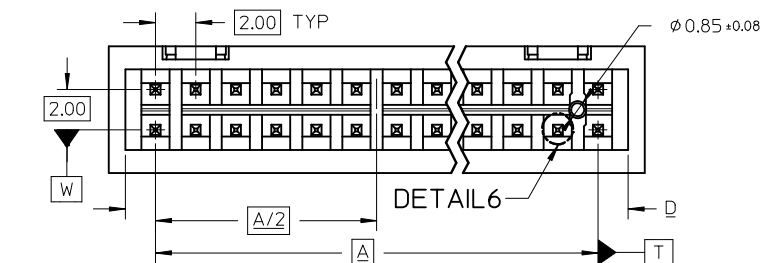
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin GOLD IN CONTACT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

SEE SHEET 7 EC NO: S2016-1147 DRW:GMENARLY 2016/06/23 CHKD:SCHEONG 2016/06/28 APPR:KHL IM 2016/06/29	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		▽ <sub>A</sub> =0	mm INCH	MM ONLY	NTS	METRIC		
		▽ <sub>B</sub> =0	4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER <b>molex</b>		
		▽ <sub>C</sub> =0	3 PLACES ± --- ± ---	GMENARLY 2015/04/15	CHECKED BY DATE			
▽ <sub>D</sub> =0	2 PLACES ± 0.20 ± ---	CGOH 2015/06/29	APPROVED BY DATE					
		1 PLACE ± --- ± ---	0 PLACE ± --- ± ---	KHL IM 2015/06/29	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
		ANGULAR ± 3 °		SEE TABLE		SD-87831-0001	8 OF 13	
		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				

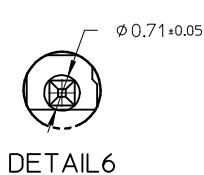
14 TO 50 CIRCUITS



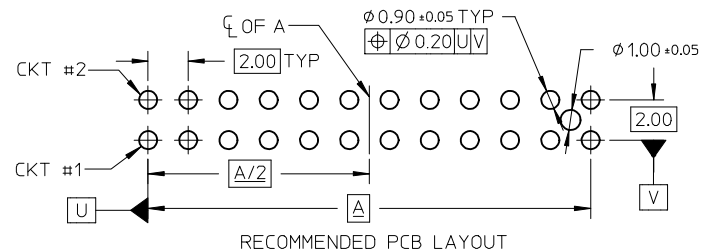
SECTION W-W



DETAIL5



DETAIL6



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)


SEE SHEET 7 EC NO: S2016-1147 DRWN:GMENARLY 2016/06/23 CHKD:SCHEONG 2016/06/28 APPR:KHL IM 2016/06/29	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							
ANGULAR ± 3°		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								
SIZE A3										

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	N.A	3														
		87831-1436	N.A	N.A	4														
		87831-1428	N.A	N.A	2														
		87831-1429	N.A	N.A	3														
		87831-1435	N.A	N.A	3														
D	16	87831-1410	N.A	N.A	2	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
		87831-1411	N.A	N.A	3														
		87831-1619	N.A	N.A	1														
		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														
C	18	87831-1629	N.A	N.A	3	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
		87831-1635	N.A	N.A	3														
		87831-1819	N.A	N.A	1														
		87831-1820	N.A	N.A	2														
		87831-1821	N.A	N.A	3														
		87831-1836	N.A	N.A	4														
A	20	87831-1828	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	2.50	3.60±0.20
		87831-1829	N.A	N.A	3														
		87831-2019	N.A	N.A	1														
		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														
		87831-2029	N.A	N.A	3														
87831-2035	N.A	N.A	3																
B	20	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	3.60±0.20
		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.

SEE SHEET 7 EC NO: S2016-1147 DRW:GMENARLY 2016/06/23 CHK:KDSCHONG 2016/06/28 APPR:KHLIM 2016/06/29	DESCRIPTION QUALITY SYMBOLS $\nabla_A = 0$ $\nabla_C = 0$ $\nabla_P = 0$	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 			
					CHECKED BY CGOH	DATE 2015/06/29				
					APPROVED BY KHLIM	DATE 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		
				SIZE A3		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																					
87831-2229	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	2.50															
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																					
	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																					
	87831-2629	N.A	N.A	3															YES	N.A	YES	N.A	YES	YES	2.50
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																					
87831-2829	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	2.50															
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																					
	87831-3029	N.A	N.A	3															YES	N.A	YES	N.A	YES	YES	2.50
	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	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  
 IEC NO: S2016-1147  
 DRWN:GMENARLY 2016/06/23  
 CH'KD:SCHEONG 2016/06/28  
 APPR:KHL IM 2016/06/29

QUALITY SYMBOLS  
 F<sub>A</sub>=0  
 F<sub>C</sub>=0  
 F<sub>P</sub>=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		SCALE	DESIGN UNITS
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.	SD-87831-0001	
SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
A3			

THIRD ANGLE PROJECTION

SHEET NO. 11 OF 13

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													YES		N.A	YES	N.A	YES	YES	2.50
87831-3229	N.A	N.A	3																					
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													YES		N.A	YES	N.A	YES	YES	2.50
	87831-3429	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													YES		N.A	YES	N.A	YES	YES	2.50
	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													YES		N.A	YES	N.A	YES	YES	2.50
	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													YES		N.A	YES	N.A	YES	YES	2.50
	87831-4029	N.A	N.A	3													YES		N.A	YES	N.A	YES	YES	3.50
	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 EC NO: S2016-1147 DRW:GMENARLY 2016/06/29 CHK:KDS/SCHEONG 2016/06/28 APPR:KHL IM 2016/06/29	QUALITY SYMBOLS ▽ <sub>A</sub> =0 ▽ <sub>B</sub> =0 ▽ <sub>C</sub> =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			
				CHECKED BY	DATE						
				CGOH	2015/06/29	<b>molex</b>					
				APPROVED BY	DATE						
				KHL IM	2015/06/29	DOCUMENT NO.		SHEET NO.			
				ANGULAR ± 3 °		SD-87831-0001		12 OF 13			
				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			
				SIZE							
				A3							

42 TO 50 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
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															
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	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	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-4629	N.A	N.A	3														
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	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 EC NO: S2016-1147 DRAWN: GEMENARLY CHKD: SCHEONG APPR: KHL IM	2016/06/23 2016/06/28 2016/06/29	QUALITY SYMBOLS ▽ <sub>A</sub> =0 ▽ <sub>B</sub> =0 ▽ <sub>C</sub> =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.						
1 PLACE	±---	±---	ANGULAR ± 3°		SEE TABLE						
0 PLACE	±---	±---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SD-87831-0001						
A4		REV	SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
					SHEET NO. 13 OF 13						