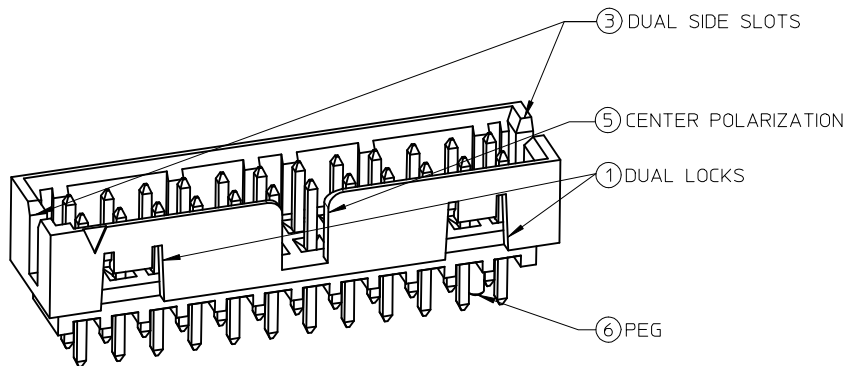
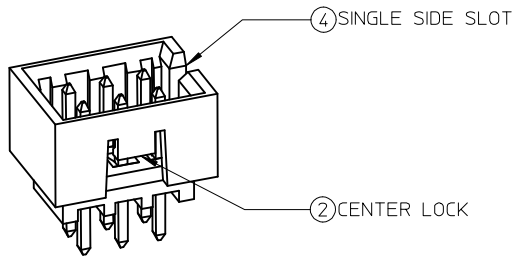


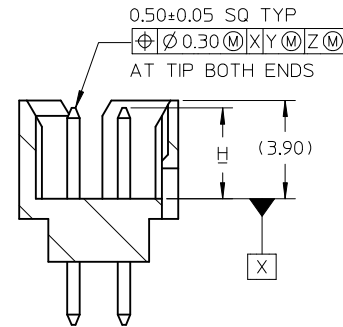
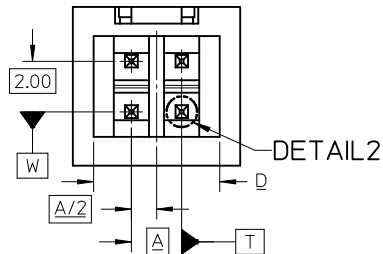
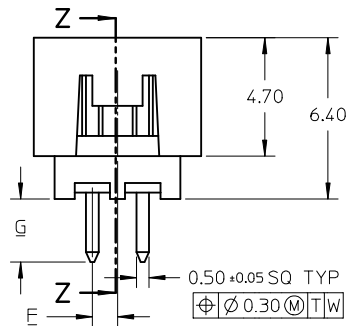
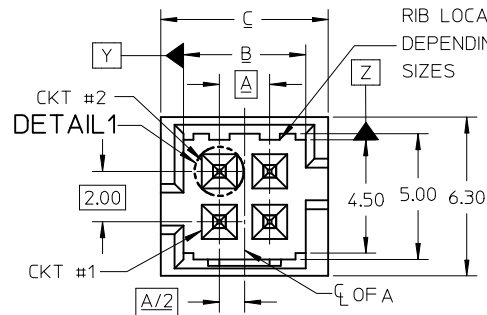
FEATURES SELECTION GUIDE



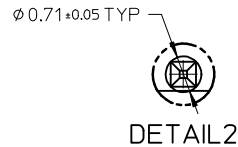
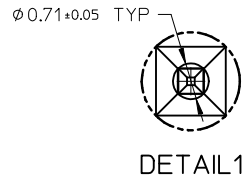
5		4		3		2		1	
CIRCUIT SIZE		FEATURES							
		FRICTION LOCKS		SIDE SLOTS		⑤ CENTER POLARIZATION	⑥ PEG	SHEET NO	
		① DUAL	② CENTER	③ DUAL	④ SINGLE				
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3		
	N.A	YES	YES	N.A	N.A	N.A			
	N.A	YES	N.A	YES	N.A	N.A			
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5		
	N.A	N.A	YES	N.A	N.A	YES			
	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 DRAWNG:GMENARLY CHK'D:CGOH APPR:KHLIM 2015/04/15 2015/06/29 2015/06/29	DESCRIPTION	QUALITY SYMBOLS F_A=0 F_C=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				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	± ---			molex				
			1 PLACE	± ---	± ---	APPROVED BY KHL IM	DATE 2015/06/29					
			0 PLACE	± ---	± ---							
			ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.					
			A	REV	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			

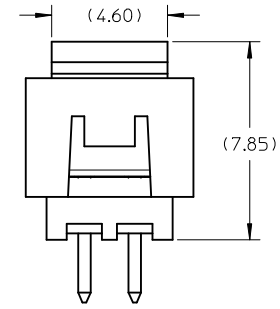
4 CIRCUITS



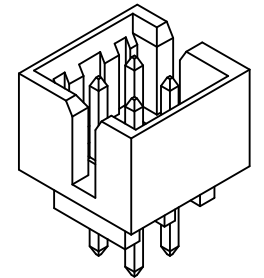
SECTION Z-Z



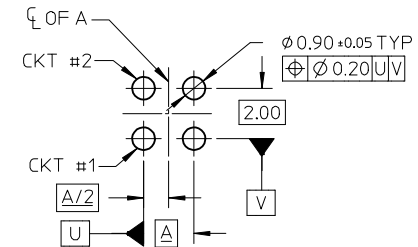
DETAIL2



VIEW FOR
HEADER WITH CAP



VIEW FOR HEADER
WITH ONLY DUAL SLOTS



RECOMMENDED PCB LAYOUT

NOTES:

1. MATERIALS:

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

PIN: 0.50MM SQ PHOSPHOR BRONZE

2. FINISHES: REFER TO PLATING OPTIONS

3. PRODUCT SPECIFICATION: PS-87831-027

4. PACKAGING SPECIFICATION:

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

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

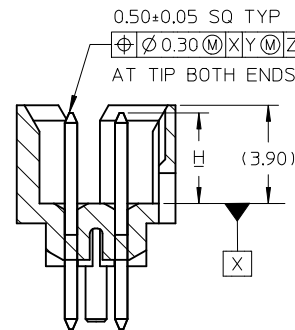
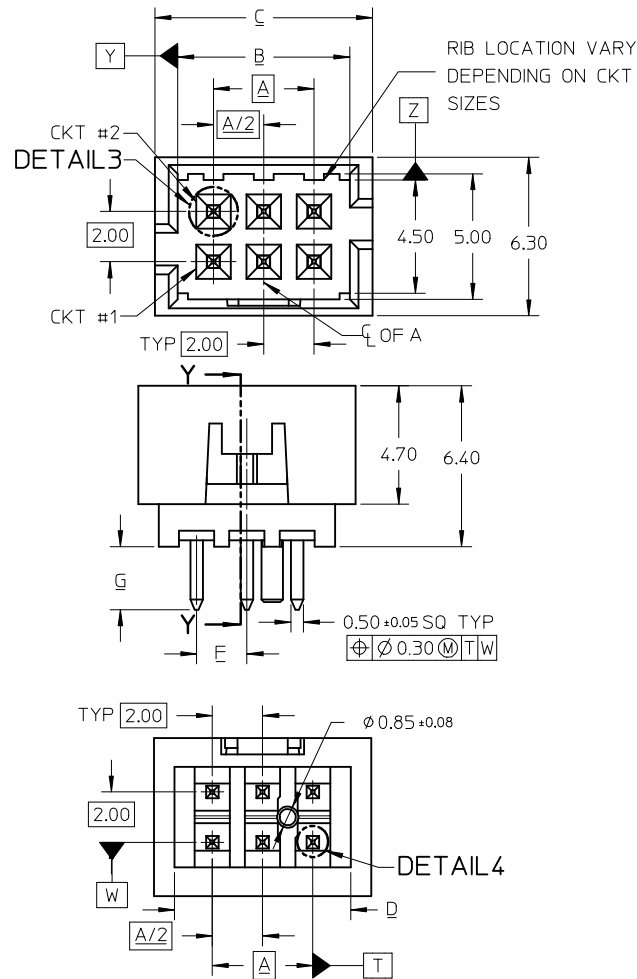
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES

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

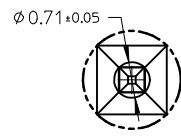
RELEASED EC NO: S2015-1188 DRAWN:GMENARLY CHKD:CGOH APPR:KHLIM 2015/04/15 2015/06/29 2015/06/29	DESCRIPTION	QUALITY SYMBOLS F_A=0 F_G=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
					DRAWN BY GMENARLY	DATE 2015/04/15	TITLE 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		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

	10	9	8	7	6	5	4	3	2	1									
	4 CIRCUITS																		
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION						F	
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
E	4	87831-0419	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	2.00	4.85	6.65	5.00	N.A	N.A	2.50	3.60±0.20
		87831-0420	N.A	N.A	2														
		87831-0421	N.A	N.A	3														
		87831-0436	N.A	N.A	4														
		87831-0441	87831-0456	N.A	2	N.A	YES	YES	N.A	N.A	N.A						1.00	2.50	
		87831-0442	N.A	N.A	3														
		87831-5141	N.A	N.A	2														
		87831-5142	N.A	N.A	3	N.A	YES	YES	N.A	N.A	N.A								
		87831-6141	N.A	N.A	2														
87831-6142	N.A	N.A	3																
87831-0443	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A	N.A	2.50	3.60 ^{+0.15} _{-0.10}							
87831-0444	N.A	N.A	3																
D																			D
C																			C
B																			B
A	PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL. RELEASED EC NO: S2015-1188 DRWG:GMENARLY CHKD:CGOH APPR:KHLIM 2015/04/15 2015/06/29 2015/06/29 QUALITY SYMBOLS F_A=0 F_G=0 F_P=0 GENERAL TOLERANCES (UNLESS SPECIFIED) mmINCH 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 BYDATE GMENARLY2015/04/15 CHECKED BYDATE APPROVED BYDATE KHLIM2015/06/29 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. 3 OF 13 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION 10987654321																		A

6 CIRCUITS



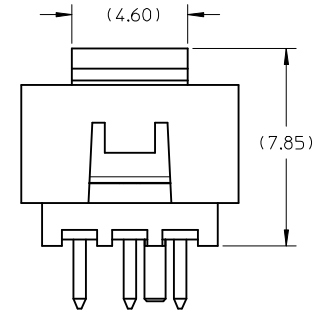
SECTION Y-Y



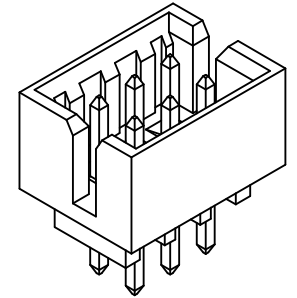
DETAIL3



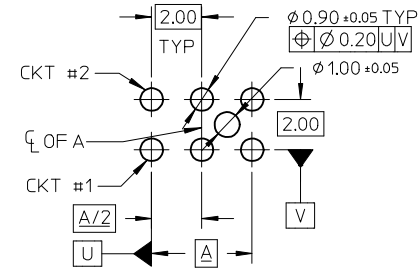
DETAIL4



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

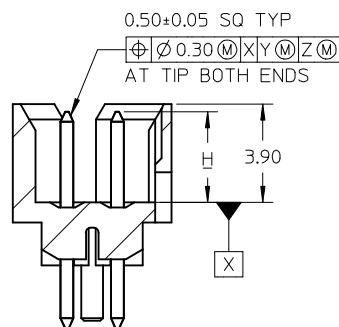
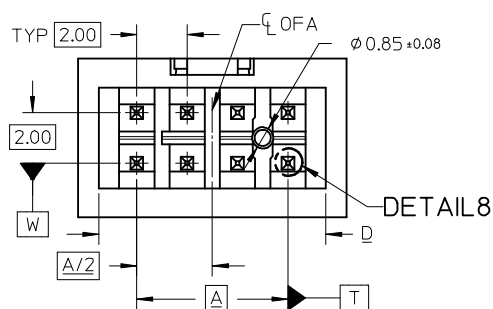
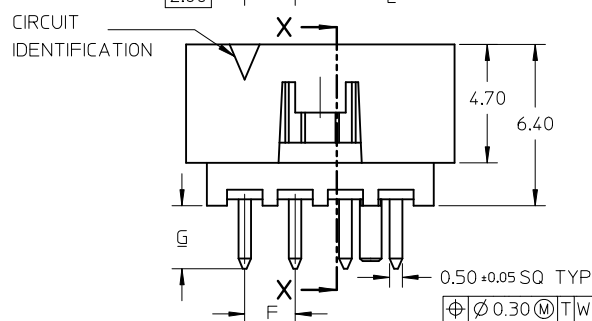
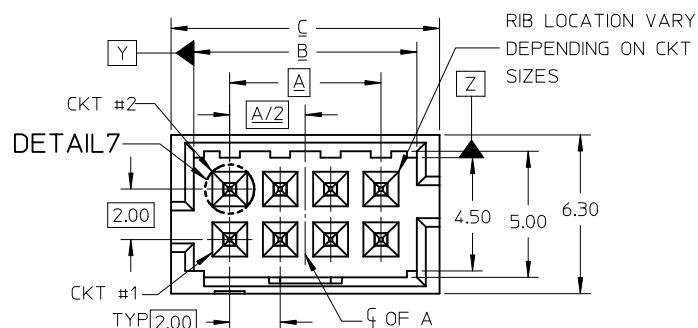
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE:

79107 (GOLD PLATED), 78787 (TIN PLATED)

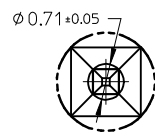
RELEASED EC NO: S2015-1188 DRAWN:GMEARLY CHKD:CGOH APPR:KHLIM	2015/04/15 2015/06/29 2015/06/29	DESCRIPTION	QUALITY SYMBOLS F_A F_C F_P =0 =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					mm	INCH	DRAWN BY GMEARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER				
							CHECKED BY	DATE					
				4 PLACES	± ---	± ---	APPROVED BY KHLIM	DATE 2015/06/29	DOCUMENT NO. SD-87831-0001				
				3 PLACES	± ---	± ---							
				2 PLACES	± 0.20	± ---	MATERIAL NO. SEE TABLE						
1 PLACE	± ---	± ---	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								
0 PLACE	± ---	± ---											
		ANGULAR ± 3 °											

10		9		8		7		6		5		4		3		2		1									
6 CIRCUITS																											
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION								F							
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H								
E	6	87831-0619	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	4.00	6.85	8.65	7.00	N.A	N.A	2.50	3.60±0.20	E							
		87831-0620	N.A	N.A	2																						
		87831-0621	N.A	N.A	3																						
		87831-0636	N.A	N.A	4																						
		87831-0628	N.A	N.A	2	N.A	N.A	YES	N.A	N.A	YES						N.A	2.50			2.00	2.50	3.60 ^{+0.15} _{-0.10}	D			
		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						3.50	N.A							2.50	3.60±0.20	D
		87831-5241	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						2.80										
		87831-5242	N.A	N.A	3												2.50					N.A			2.50		
87831-6241	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A	2.50																	
87831-6242	N.A	N.A	3							2.50	N.A	2.50	3.60±0.20	D													
87831-0643	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A	2.50																	
87831-0644	N.A	N.A	3							2.50		N.A			2.50	3.60±0.20	D										
87831-0645	N.A	N.A	2	N.A	YES	N.A	YES	N.A	YES	2.50																	
87831-0646	N.A	N.A	3							2.50					N.A				2.50	3.60±0.20	D						
87831-0632	N.A	N.A	2	N.A	YES	YES	N.A	N.A	YES	2.50																	
87831-5119	N.A	N.A	1							N.A								N.A	YES				N.A	YES	N.A		

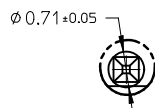
8 TO 12 CIRCUITS



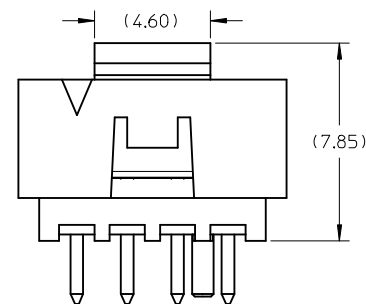
SECTION X-X



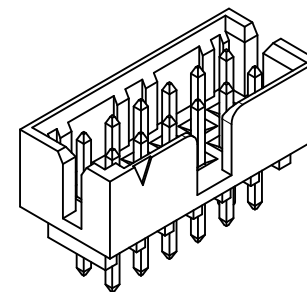
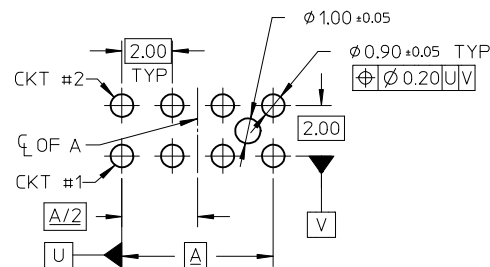
DETAIL 7



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)

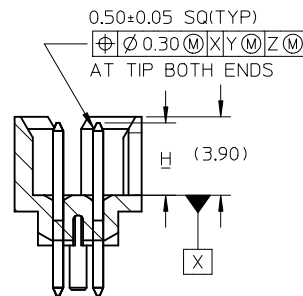
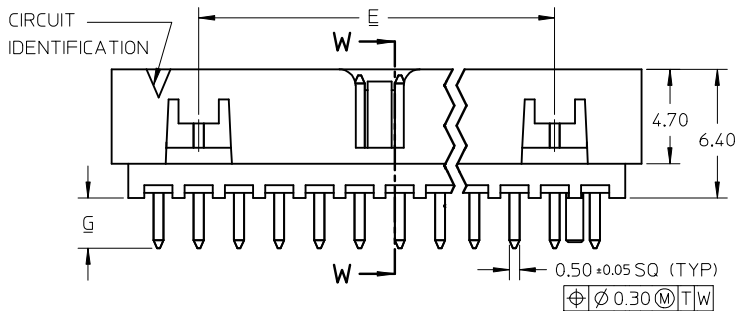
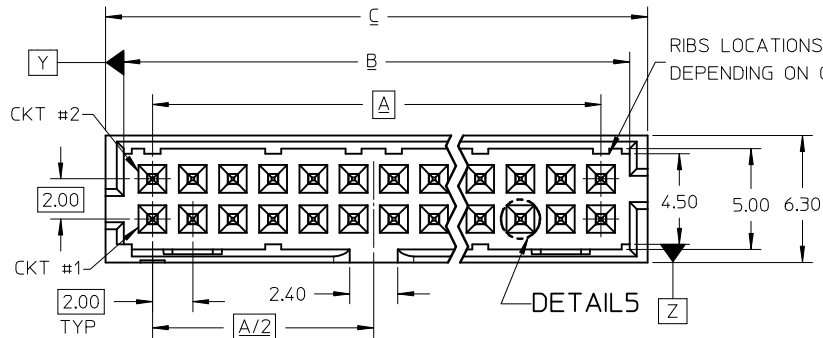
RELEASED EC NO: S2015-1188 DRAWN:GMENARLY CHK'D:CJGH APPR:KHLIM	2015/04/15 2015/06/29 2015/06/29	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
						DRAWN BY	DATE	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER					
						CHECKED BY	DATE						
						APPROVED BY	DATE	molex					
						MATERIAL NO.						DOCUMENT NO.	SHEET NO.
						SIZE						INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

A	REV	=0	4 PLACES	± ---	± ---	SEE TABLE	SD-87831-0001	6 OF 13
		=0	3 PLACES	± ---	± ---			
		=0	2 PLACES	± 0.20	± ---			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	1 PLACE	± ---	± ---			
			0 PLACE	± ---	± ---			
			ANGULAR ± 3 °					

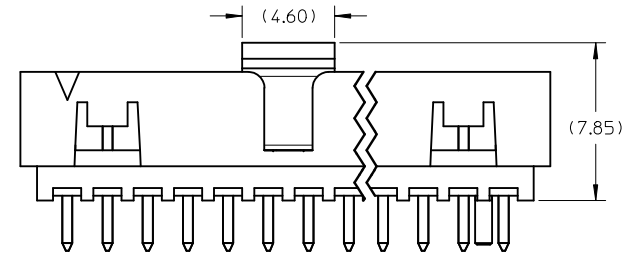
	10	9	8	7	6	5	4	3	2	1														
	8 CIRCUITS																							
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION						F						
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H					
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					
		87831-0820	N.A	N.A	2																			
		87831-0821	N.A	N.A	3																			
		87831-0836	N.A	N.A	4																			
		87831-0828	N.A	N.A	2	N.A	N.A	YES	N.A	YES	YES						N.A	N.A		N.A	3.00	2.50	3.60±0.15 -0.10	
		87831-0829	N.A	N.A	3																			
		87831-0841	N.A	87831-5551	2																			
		87831-0842	N.A	N.A	3																			
		87831-5441	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	3.00	2.50	3.60±0.15 -0.10	
		87831-5442	N.A	N.A	3																			
N.A	87831-5541	N.A	2																					
N.A	87831-5542	N.A	3																					
D		87831-5741	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A	6.00	8.85	10.65	9.00	N.A	3.00	2.50	3.60±0.15 -0.10					
		87831-5742	N.A	N.A	3																			
		87831-0832	N.A	N.A	2																			
		87831-0843	N.A	N.A	2																			
		87831-0844	N.A	N.A	3	N.A	YES	N.A	YES	N.A	YES							N.A		N.A	N.A	3.00	2.50	3.60±0.15 -0.10
		87831-0845	N.A	N.A	2																			
		87831-0846	N.A	N.A	3																			
C													6.00	8.85	10.65	9.00	N.A	3.00	2.50	3.60±0.15 -0.10				
B													6.00	8.85	10.65	9.00	N.A	3.00	2.50	3.60±0.15 -0.10				
A													6.00	8.85	10.65	9.00	N.A	3.00	2.50	3.60±0.15 -0.10				
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:GCOH 2015/06/29 APPR:KHLIM 2015/06/29 REV A	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY DATE GMENARLY 2015/04/15 CHECKED BY DATE APPROVED BY DATE KHLIM 2015/06/29 MATERIAL NO. SEE TABLE	SCALE NTS TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex SD-87831-0001	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	SHEET NO. 7 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		
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															
		87831-1010	N.A	N.A	2	N.A	N.A	YES	N.A	YES	N.A							3.50		
		87831-1011	N.A	N.A	3															
		87831-1028	N.A	N.A	2	N.A	N.A	YES	N.A	YES	YES						2.50			
		87831-1029	N.A	N.A	3															
		87831-1035	N.A	N.A	3	N.A	N.A	YES	N.A	YES	YES						3.50			
		87831-1041	N.A	N.A	2															
D	10	87831-1042	N.A	87831-5553	3	N.A	YES	YES	N.A	N.A	N.A	10.00	12.85	14.65	13.00	N.A	4.00	2.50	3.60 ^{+0.15} _{-0.10}	D
		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	N.A	YES	N.A	YES	N.A	N.A						2.50			
		87831-1046	N.A	N.A	3															
C	12	87831-1219	N.A	N.A	1	N.A	N.A	YES	N.A	YES	N.A	10.00	12.85	14.65	13.00	N.A	N.A	2.50	3.60±0.20	C
		87831-1220	N.A	N.A	2															
		87831-1221	N.A	N.A	3															
		87831-1236	N.A	N.A	4															
		87831-1228	N.A	N.A	2	N.A	N.A	YES	N.A	YES	YES							2.50		
		87831-1229	N.A	N.A	3															
		87831-1241	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						2.50			
		87831-1242	N.A	N.A	3															
		87831-1255	87831-1256	N.A	2	N.A	YES	YES	N.A	N.A	N.A						N.A	2.50		
		87831-1232	N.A	N.A	2															
87831-1243	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A	N.A	2.50									
87831-1244	N.A	N.A	3									N.A	YES	N.A	YES	N.A	N.A	N.A	2.50	
87831-1245	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A	YES	2.50									
87831-1246	N.A	N.A	3																	
B																				
PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.																				
A	RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/06/29 CHKD:CGOH APPR:KHL IM REV					QUALITY SYMBOLS F=0 F=0 F=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 SD-87831-0001 SHEET NO. 8 OF 13					
							mm INCH		DRAWN BY GMENARLY	DATE 2015/04/15	TITLE									
							4 PLACES ± --- ± ---	DRAWN BY GMENARLY	DATE 2015/04/15											
							3 PLACES ± --- ± ---	CHECKED BY	DATE											
							2 PLACES ± 0.20 ± ---	APPROVED BY KHL IM	DATE 2015/06/29											
							1 PLACE ± --- ± ---													
							0 PLACE ± --- ± ---													
							ANGULAR ± 3 °													
							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									
tb_frame_A3_P_AM.T Rev. G 2012/01/11		9		8		7		6		5		4		3		2		1		

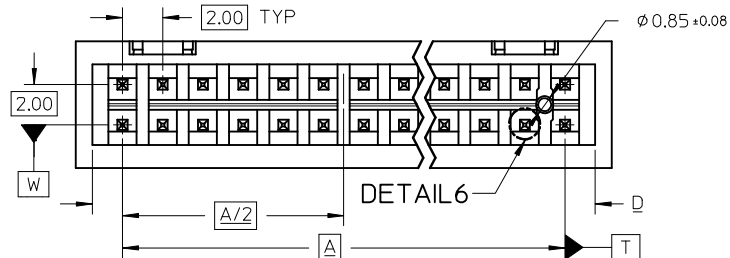
14 TO 50 CIRCUITS



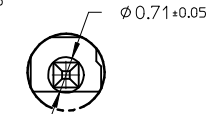
SECTION W-W



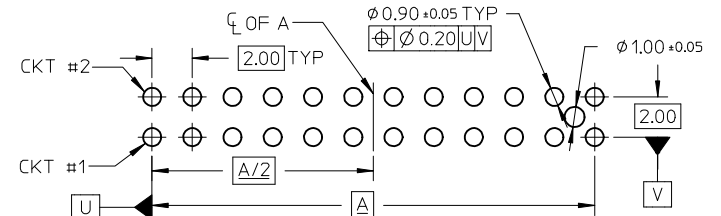
VIEW FOR HEADER WITH CAP



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)

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	DOCUMENT NO. SD-87831-0001						
			2 PLACES	± 0.20	± ---	MATERIAL NO.		SEE TABLE						SHEET NO. 9 OF 13	
			1 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	
			0 PLACE	± ---	± ---	SIZE A3									

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		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																		
	22	87831-2229	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							2.50					
		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																		
	24	87831-2429	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							2.50					
		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							3.50					
		D	26	87831-2619	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	24.00	26.85	28.65	27.00	20.00	N.A	2.50	3.60±0.20		
				87831-2620	N.A	N.A	2																
87831-2621	N.A			N.A	3																		
87831-2636	N.A			N.A	4																		
87831-2628	N.A			N.A	2																		
	26	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					
		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																		
	28	87831-2829	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							2.50					
		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																		
	30	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.																					
		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		SCALE NTS		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex		SHEET NO. 11 OF 13			
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	
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	
	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	2.50													
87831-3229	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES										
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														
		87831-3428	N.A	N.A	2	2.50													
		87831-3429	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES								
87831-3435	N.A	N.A	3	YES	N.A	YES	N.A	YES	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														
		87831-3628	N.A	N.A	2	2.50													
		87831-3629	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES								
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														
		87831-3828	N.A	N.A	2	2.50													
		87831-3829	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES								
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														
		87831-4028	N.A	N.A	2	2.50													
		87831-4029	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES								
87831-4010	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A										
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.																		B
	RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/04/15 CHYKD:CGOH 2015/06/29 APPR:KHL IM 2015/06/29																		
	QUALITY SYMBOLS																		
	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																		
SD-87831-0001																			
SHEET NO. 12 OF 13																			
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																			
SEE TABLE																			
MATERIAL NO.																			
DOCUMENT NO.																			
APPROVED BY DATE																			
CHECKED BY DATE																			
DRAWN BY DATE																			
SIZE A3																			
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			
tb_frame_A3_P_AM.T Rev. G 2012/01/11		9		8		7		6		5		4		3		2		1	

		10	9		8		7		6		5		4		3		2		1																								
		42 TO 50 CIRCUITS																																									
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION								F																							
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H																								
	42	87831-4219	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	40.00	42.85	44.65	43.00	36.00	N.A	2.50	3.60±0.20																								
		87831-4220	N.A	N.A	2																																						
		87831-4221	N.A	N.A	3																																						
		87831-4236	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50																									
		87831-4228	N.A	N.A	2																																						
		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	YES	N.A	YES	N.A	YES	YES							2.50								
87831-4428	N.A			N.A	2																																						
		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	YES	N.A	YES	N.A	YES	YES	2.50																															
87831-4628	N.A			N.A	2																																						
		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	YES	N.A	YES	N.A	YES	YES							2.50								
87831-4828	N.A			N.A	2																																						
		87831-4829	N.A	N.A	3																																						
		A	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	YES	N.A	YES	N.A	YES	YES							2.50								
87831-5028	N.A			N.A	2																																						
		87831-5029	N.A	N.A	3																																						
		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.																																											
</																																											



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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