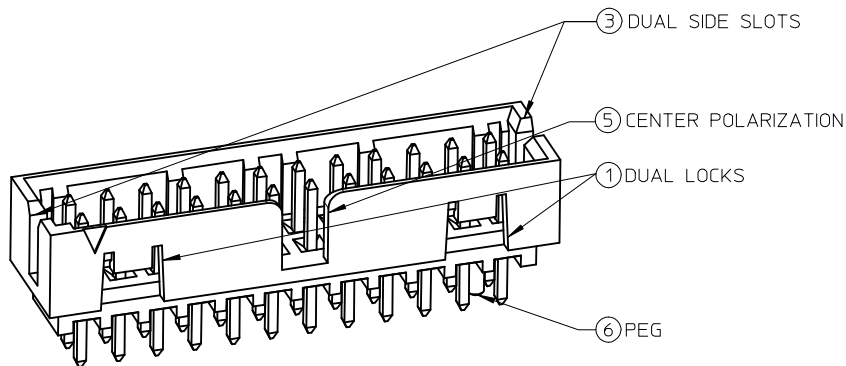
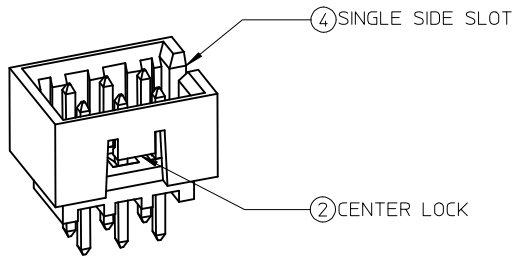


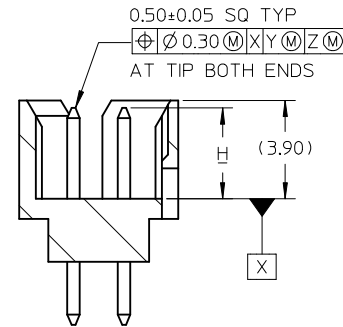
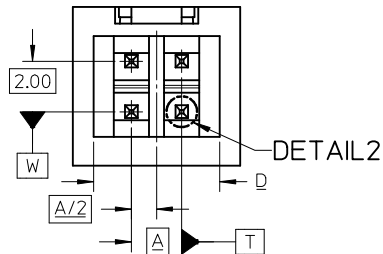
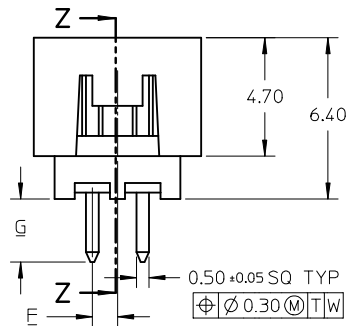
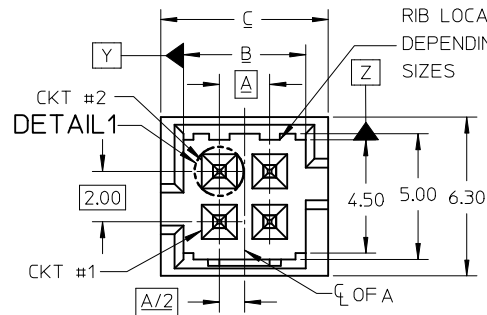
FEATURES SELECTION GUIDE



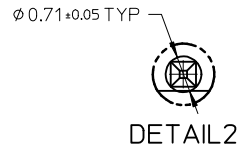
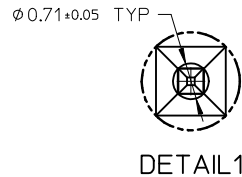
5		4		3		2		1	
CIRCUIT SIZE		FEATURES							
		FRICTION LOCKS		SIDE SLOTS		⑤ CENTER POLARIZATION	⑥ PEG	SHEET NO	
		① DUAL	② CENTER	③ DUAL	④ SINGLE				
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3		
	N.A	YES	YES	N.A	N.A	N.A			
	N.A	YES	N.A	YES	N.A	N.A			
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5		
	N.A	N.A	YES	N.A	N.A	YES	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

RELEASED EC NO: S2015-1188 DRAWN:GMENARLY CHK'D:CGOH APPR:KHLIM REV A	DESCRIPTION REV A	QUALITY SYMBOLS F_A=0 F_C=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
						DRAWN BY GMENARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER			
						CHECKED BY	DATE				
						APPROVED BY KHLIM	DATE 2015/06/29	molex DOCUMENT NO. SD-87831-0001 SHEET NO. 1 OF 13			
						MATERIAL NO.					
						SEE TABLE					
			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					

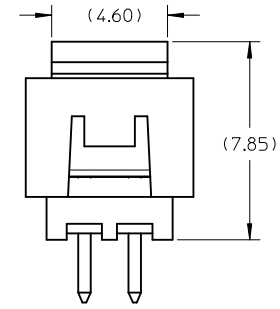
4 CIRCUITS



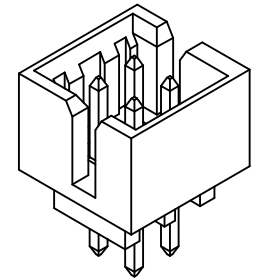
SECTION Z-Z



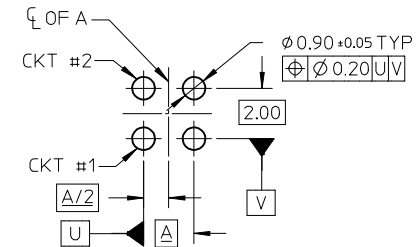
DETAIL2



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

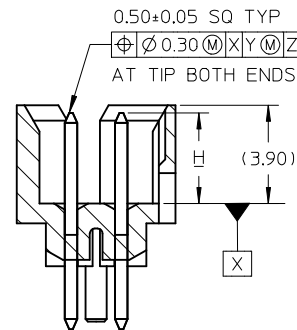
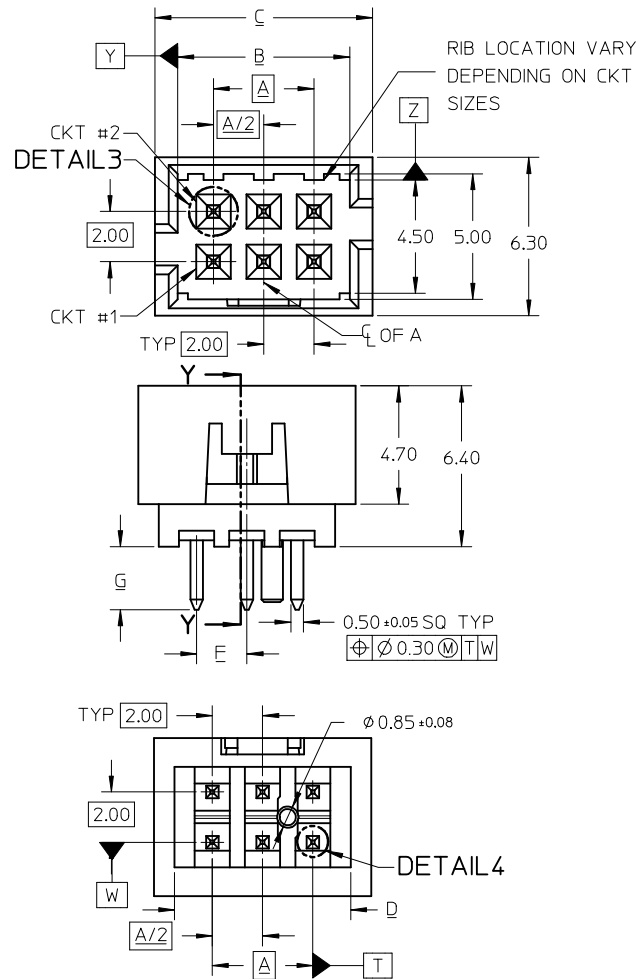
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE:

79107 (GOLD PLATED), 78787 (TIN PLATED)

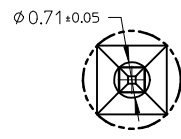
RELEASED EC NO: S2015-1188 DRWNG:GMENARLY CHKD:CGOH APPR:KHLIM 2015/04/15 2015/06/29 2015/06/29	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
					MM ONLY		NTS	METRIC				
					DRAWN BY DATE		TITLE					
					GMENARLY 2015/04/15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

	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	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																																																								
		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																																																										
87831-0444	N.A	N.A	3	N.A	YES						N.A	YES	N.A	N.A	2.50			3.60 ^{+0.15} _{-0.10}																																											
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. 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. <table><tr><td rowspan="4">RELEASED EC NO: S2015-1188 DRWN:GMENARLY CHKD:GKH APPR:KHL IM A</td><td rowspan="4">REV DESCRIPTION 2015/04/15 2015/06/29 2015/06/29</td><td>QUALITY SYMBOLS ▽=0 ▽=0 ▽=0</td><td colspan="2">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</td><td colspan="2">DIMENSION STYLE MM ONLY DRAWN BY DATE GMENARLY 2015/04/15 CHECKED BY DATE APPROVED BY DATE KHL IM 2015/06/29 MATERIAL NO. SEE TABLE</td><td>SCALE NTS</td><td>DESIGN UNITS METRIC</td><td colspan="2">THIRD ANGLE PROJECTION MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex SD-87831-0001</td><td colspan="2">SHEET NO. 3 OF 13</td></tr><tr><td colspan="10">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr><tr><td colspan="10"></td></tr><tr><td colspan="10"></td></tr></table>																	RELEASED EC NO: S2015-1188 DRWN:GMENARLY CHKD:GKH APPR:KHL IM A	REV DESCRIPTION 2015/04/15 2015/06/29 2015/06/29	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DIMENSION STYLE MM ONLY DRAWN BY DATE GMENARLY 2015/04/15 CHECKED BY DATE APPROVED BY DATE KHL IM 2015/06/29 MATERIAL NO. SEE TABLE		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex SD-87831-0001		SHEET NO. 3 OF 13		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																														A
RELEASED EC NO: S2015-1188 DRWN:GMENARLY CHKD:GKH APPR:KHL IM A	REV DESCRIPTION 2015/04/15 2015/06/29 2015/06/29	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DIMENSION STYLE MM ONLY DRAWN BY DATE GMENARLY 2015/04/15 CHECKED BY DATE APPROVED BY DATE KHL IM 2015/06/29 MATERIAL NO. SEE TABLE		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex SD-87831-0001		SHEET NO. 3 OF 13																																																		
		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																																																			

6 CIRCUITS



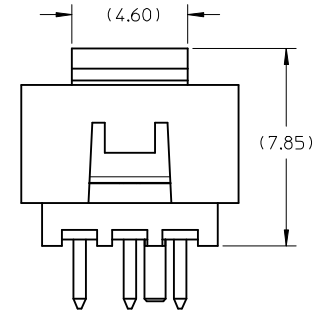
SECTION Y-Y



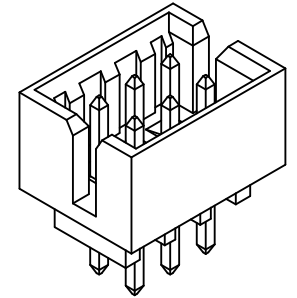
DETAIL3



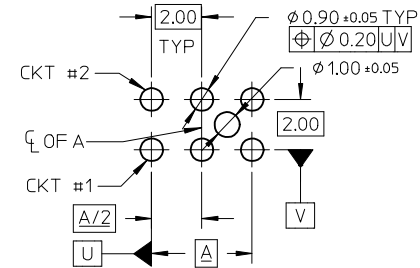
DETAIL4



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

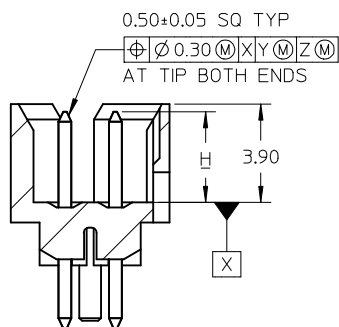
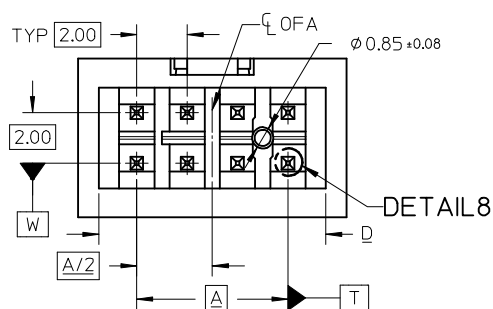
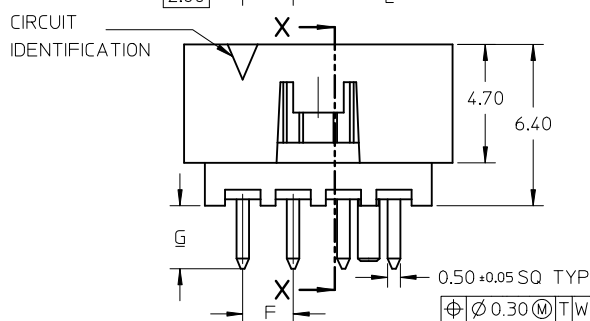
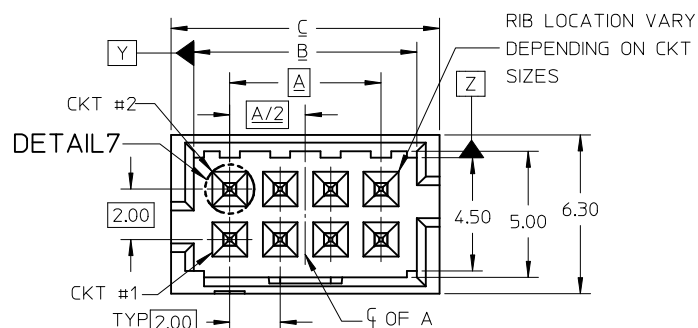
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE:

79107 (GOLD PLATED), 78787 (TIN PLATED)

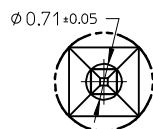
RELEASED EC NO: S2015-1188 DRAWN:GMEARLY CHKD:CGOH APPR:KHLIM	2015/04/15	2015/06/29	DESCRIPTION	QUALITY SYMBOLS F_A=0 F_C=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
					mm	INCH	DRAWN BY GMEARLY		DATE 2015/04/15		TITLE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

	10	9	8	7	6	5	4	3	2	1														
	6 CIRCUITS																							
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION						F						
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H					
E	6	87831-0619	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	4.00	6.85	8.65	7.00	N.A			3.60±0.20	E				
		87831-0620	N.A	N.A	2																			
		87831-0621	N.A	N.A	3																			
		87831-0636	N.A	N.A	4																			
		87831-0628	N.A	N.A	2	N.A	N.A	YES	N.A	N.A	YES													
		87831-0629	N.A	N.A	3																			
		87831-0641	N.A	N.A	2																			
		87831-0642	N.A	87831-5552	3	N.A	YES	YES	N.A	N.A	N.A						N.A	2.00			2.50	3.60 ^{+0.15} _{-0.10}		
		87831-5241	N.A	N.A	2																3.50			
		87831-5242	N.A	N.A	3																2.80			
87831-6241	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A	2.50	3.60±0.20													
87831-6242	N.A	N.A	3																					
87831-0643	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A			YES	N.A	2.50	3.60±0.20									
87831-0644	N.A	N.A	3																					
87831-0645	N.A	N.A	2	N.A	YES	N.A	YES	N.A	YES			N.A				2.50	3.60±0.20							
87831-0646	N.A	N.A	3																					
87831-0632	N.A	N.A	2	N.A	YES	YES	N.A	N.A	YES	N.A	2.50							3.60±0.20						
87831-5119	N.A	N.A	1																N.A	N.A	YES	N.A	YES	N.A
C																				C				
B																			B					
A	PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.					RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/04/15 CHKD:CGOH 2015/06/29 APPR:KHLIM 2015/06/29	QUALITY SYMBOLS F _A =0 F _G =0 F _P =0	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			A					

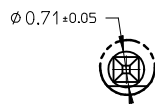
8 TO 12 CIRCUITS



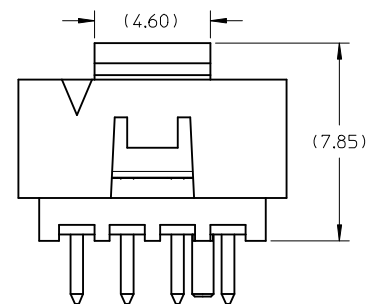
SECTION X-X



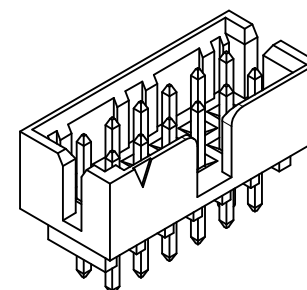
DETAIL7



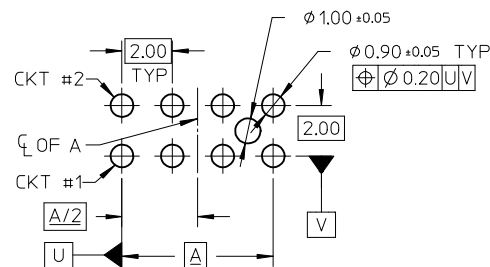
DETAIL8



VIEW FOR HEADER WITH CAP



VIEW FOR HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



RECOMMENDED PCB LAYOUT

NOTES:

1. MATERIALS:

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

PIN: 0.50MM SQ PHOSPHOR BRONZE

2. FINISHES: REFER TO PLATING OPTIONS

3. PRODUCT SPECIFICATION: PS-87831-027

4. PACKAGING SPECIFICATION:

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

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

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

C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE:

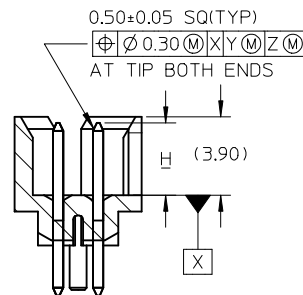
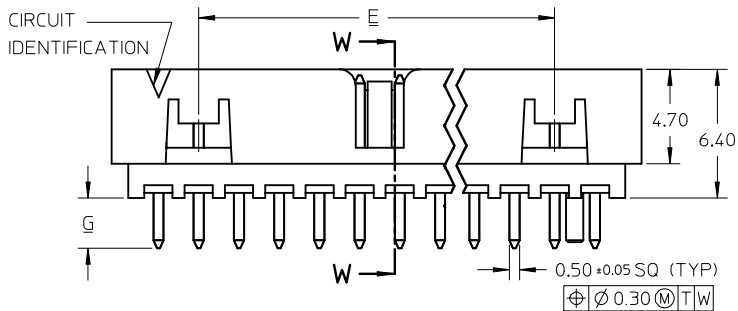
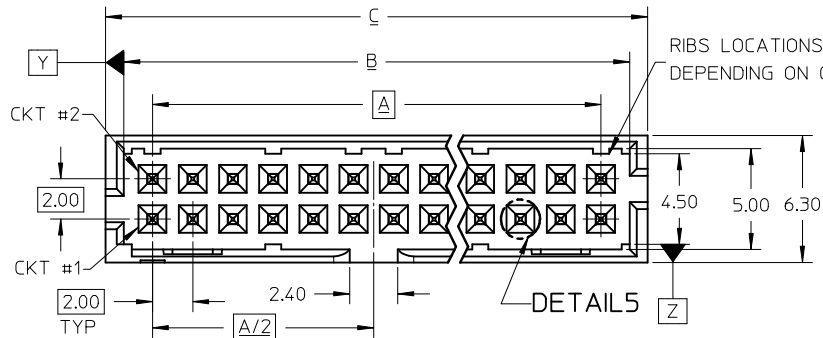
79107 (GOLD PLATED), 78787 (TIN PLATED)

RELEASED EC NO: S2015-1188 DRWN:GMENARLY CHKD:CGOH APPR:KHLIM	2015/04/15 2015/06/29 2015/06/29	DESCRIPTION REV	QUALITY SYMBOLS FA=0 FB=0 FP=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
						DRAWN BY GMENARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex SD-87831-0001			
						CHECKED BY	DATE				
						APPROVED BY KHLIM	DATE 2015/06/29				
						MATERIAL NO.	DOCUMENT NO.				SHEET NO. 6 OF 13
ANGULAR ± 3 °		SEE TABLE									
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									

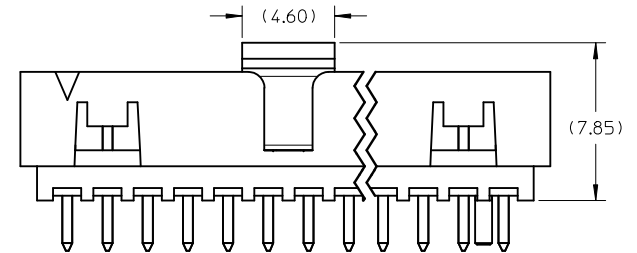
[illegible]

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	3.50		
		87831-1232	N.A	N.A	2															
87831-1243	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A	2.50										
87831-1244	N.A	N.A	3								N.A	YES	N.A	YES	N.A	N.A	2.50			
87831-1245	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A	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 A					REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0 ▽=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	CHECKED BY	DATE						APPROVED BY KHL IM
									4 PLACES ± --- ± ---											
									3 PLACES ± --- ± ---											
									2 PLACES ± 0.20 ± ---											
									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		

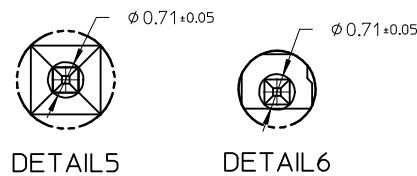
14 TO 50 CIRCUITS



SECTION W-W

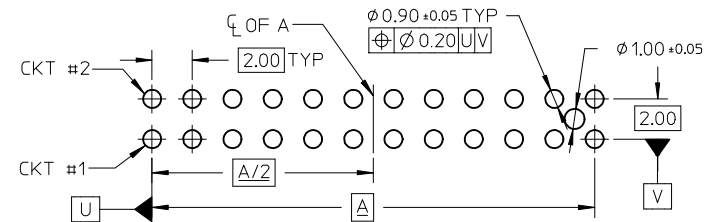


VIEW FOR HEADER WITH CAP



DETAIL 5

DETAIL 6



RECOMMENDED PCB LAYOUT

NOTES:

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

RELEASED EC NO: S2015-1188 DRAWN:GMENARLY CHKD:CGOH APPR:KHL IM 2015/04/15 2015/06/29 2015/06/29	DESCRIPTION REV	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	DATE				
			2 PLACES	± 0.20	± ---	KHL IM	2015/06/29	DOCUMENT NO. SD-87831-0001			SHEET NO. 9 OF 13
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		
			ANGULAR ± 3 °			SIZE A3					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								

		10	9	8	7	6	5	4	3	2	1										
		14 TO 20 CIRCUITS																			
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION								F	
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H		
E	14	87831-1419	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	12.00	14.85	16.65	15.00	8.00	N.A	2.50	3.60±0.20	E	
		87831-1420	N.A	87831-5554	2																
		87831-1421	N.A	N.A	3																
		87831-1436	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50			
		87831-1428	N.A	N.A	2													3.50			
		87831-1429	N.A	N.A	3													3.50			
		87831-1435	N.A	N.A	3	YES	N.A	YES	N.A	YES	N.A							3.50			
87831-1410	N.A	N.A	2																		
87831-1411	N.A	N.A	3																		
D	16	87831-1619	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	14.00	16.85	18.65	17.00	10.00	N.A	2.50	3.60±0.20	D	
		87831-1620	N.A	N.A	2																
		87831-1621	N.A	N.A	3																
		87831-1636	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50			
		87831-1628	N.A	N.A	2													3.50			
		87831-1629	N.A	N.A	3																
87831-1635	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES												
C	18	87831-1819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	16.00	18.85	20.65	19.00	12.00	N.A	2.50	3.60±0.20	C	
		87831-1820	N.A	N.A	2																
		87831-1821	N.A	N.A	3																
		87831-1836	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50			
		87831-1828	N.A	N.A	2													3.50			
		87831-1829	N.A	N.A	3																
A	20	87831-2019	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	18.00	20.85	22.65	21.00	14.00	N.A	2.50	3.60±0.20	A	
		87831-2020	N.A	N.A	2																
		87831-2021	N.A	N.A	3																
		87831-2036	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50			
		87831-2028	N.A	N.A	2													3.50			
		87831-2029	N.A	N.A	3													3.50			
		87831-2035	N.A	N.A	3	YES	N.A	YES	N.A	YES	N.A							3.50			
		87831-2010	N.A	N.A	2																
87831-2011	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.																				B
A	RELEASED EC NO: S2015-1188 DRWNG:GEMENARLY CHK'D:GGOH APPR:KHL IM 2015/04/15 2015/06/29 2015/06/29 REV A																				A
A	QUALITY SYMBOLS F=0 F=0 F=0																				A
A	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																				A
A	DIMENSION STYLE MM ONLY DRAWN BY DATE GMENARLY 2015/04/15 CHECKED BY DATE APPROVED BY DATE KHL IM 2015/06/29 MATERIAL NO. SEE TABLE SIZE A3																				A
A	SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex DOCUMENT NO. SD-87831-0001 SHEET NO. 10 OF 13																				A
A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																				A
		10	9	8	7	6	5	4	3	2	1										

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

10		9		8		7		6		5		4		3		2		1			
32 TO 40 CIRCUITS																					
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							F		
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G		H	
	32	87831-3219	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	30.00	32.85	34.65	33.00	26.00	N.A	2.50	3.60±0.20		
		87831-3220	N.A	N.A	2																
		87831-3221	N.A	N.A	3																
		87831-3236	N.A	N.A	4																
		87831-3228	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50			
E	34	87831-3229	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	32.00	34.85	36.65	35.00	28.00	N.A	2.50	3.60±0.20		
		87831-3419	N.A	N.A	1																
		87831-3420	N.A	N.A	2																
		87831-3421	N.A	N.A	3																
		87831-3436	N.A	N.A	4																
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											
87831-3435	N.A	N.A	3																		
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	YES	N.A	YES	N.A	YES	YES							2.50			
87831-3629	N.A	N.A	3																		
C	38	87831-3819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	36.00	38.85	40.65	39.00	32.00	N.A	2.50	3.60±0.20		
		87831-3820	N.A	N.A	2																
		87831-3821	N.A	N.A	3																
		87831-3836	N.A	N.A	4																
		87831-3828	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50			
87831-3829	N.A	N.A	3																		
A	40	87831-4019	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	38.00	40.85	42.65	41.00	34.00	N.A	2.50	3.60±0.20		
		87831-4020	N.A	N.A	2																
		87831-4021	N.A	N.A	3																
		87831-4036	N.A	N.A	4																
		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	N.A	3.50											
87831-4010	N.A	N.A	2																		
B																			B		
PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.																			A		
RELEASED EC NO: S2015-1188 DRWN:GMENARLY CHKD:CGOH APPR:KHL IM A		2015/04/15 2015/06/29 2015/06/29		DESCRIPTION REV		QUALITY SYMBOLS F=0 F=0 F=0		GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DIMENSION STYLE MM ONLY DRAWN BY DATE GMENARLY 2015/04/15 CHECKED BY DATE APPROVED BY DATE KHL IM 2015/06/29 MATERIAL NO. SEE TABLE		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex		DOCUMENT NO. SD-87831-0001		SHEET NO. 12 OF 13	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			A		
tb_frame_A3_P_AM.T Rev. G 2012/01/11		9		8		7		6		5		4		3		2		1			

		10			9			8			7			6			5			4			3			2			1		
42 TO 50 CIRCUITS																															
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION								F											
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H												
	42	87831-4219	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	40.00	42.85	44.65	43.00	36.00	N.A	2.50	3.60±0.20												
		87831-4220	N.A	N.A	2																										
		87831-4221	N.A	N.A	3																										
		87831-4236	N.A	N.A	4																										
		87831-4228	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50													
		87831-4229	N.A	N.A	3																										
E	44	87831-4419	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	42.00	44.85	46.65	45.00	38.00	N.A	2.50	3.60±0.20	E											
		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													
		87831-4435	N.A	N.A	3																										
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	D											
		87831-4620	N.A	N.A	2																										
		87831-4621	N.A	N.A	3																										
		87831-4636	N.A	N.A	4																										
		87831-4628	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50													
		87831-4629	N.A	N.A	3																										
C	48	87831-4819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	46.00	48.85	50.65	49.00	42.00	N.A	2.50	3.60±0.20	C											
		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													
		87831-5035	N.A	N.A	3																										
A	PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.																													B	
	RELEASED EC NO: S2015-1188 2015/04/15 DRWN:GMENARLY 2015/06/29 CHKD:CGOH 2015/06/29 APPR:KHLIM 2015/06/29 A										REV	QUALITY SYMBOLS	F_A=0 F_E=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	TITLE	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER	molex	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
	MM ONLY		DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE																							
			GMENARLY	2015/04/15			KHLIM	2015/06/29																							



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Электрон
Связь**

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