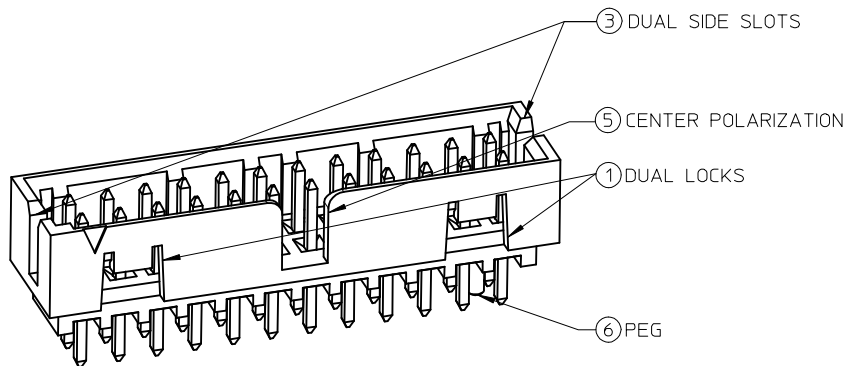
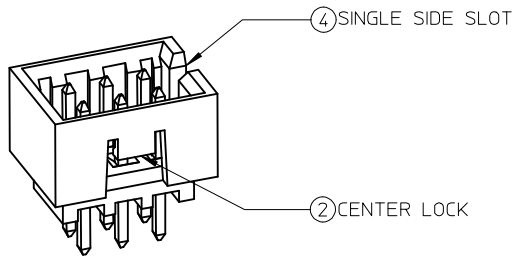


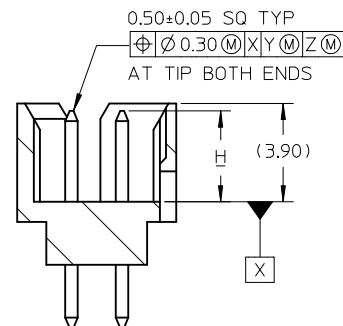
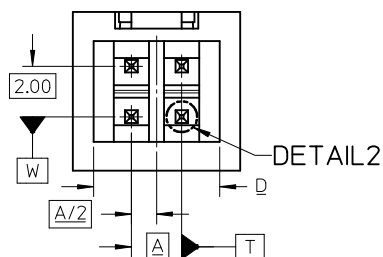
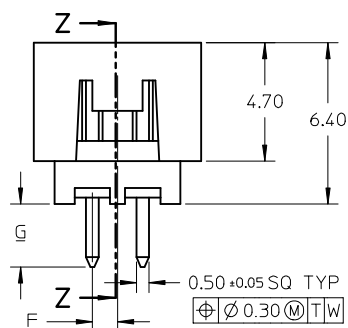
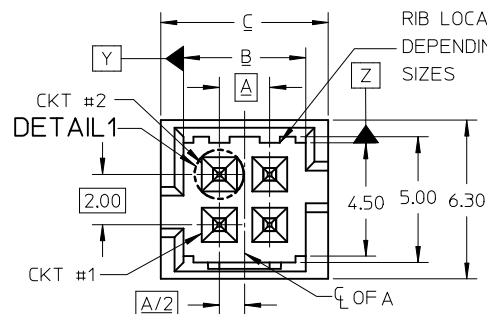
FEATURES SELECTION GUIDE



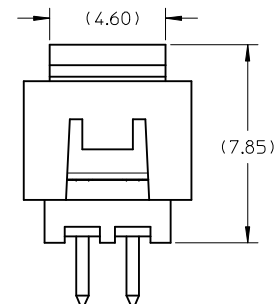
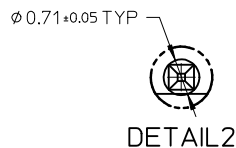
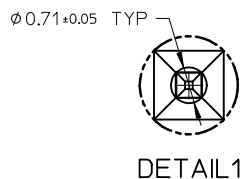
5		4		3		2		1	
CIRCUIT SIZE		FEATURES							
		FRICTION LOCKS		SIDE SLOTS					
① DUAL	② CENTER	③ DUAL	④ SINGLE	⑤ CENTER POLARIZATION	⑥ PEG	SHEET NO			
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3		
	N.A	YES	YES	N.A	N.A	N.A			
	N.A	YES	N.A	YES	N.A	N.A			
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5		
	N.A	N.A	YES	N.A	N.A	YES			
	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 DRWNG:GMENARLY CHK'D: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			
			=0 =0 =0			DRAWN BY	DATE	TITLE			
				4 PLACES	± ---	± ---	GMENARLY			2015/04/15	
				3 PLACES	± ---	± ---	CHECKED BY	DATE		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER	
				2 PLACES	± 0.20	± ---	APPROVED BY	DATE			
				1 PLACE	± ---	± ---	KHLIM	2015/06/29			
0 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.	SHEET NO.					
ANGULAR ± 3 °		SEE TABLE		SD-87831-0001		1 OF 13					
A	REV	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							

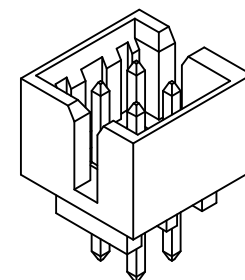
4 CIRCUITS



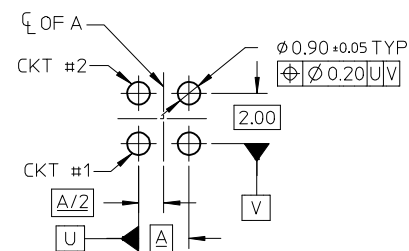
SECTION Z-Z



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

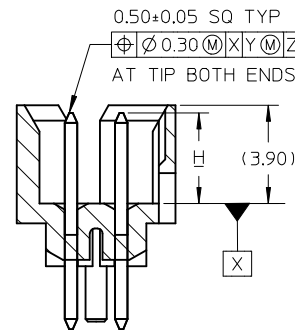
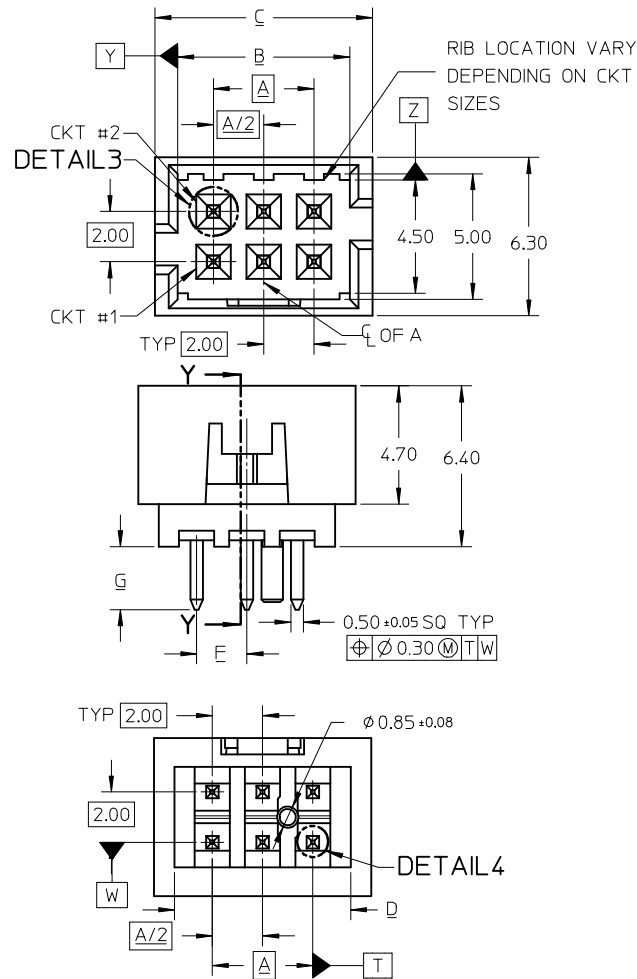
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE:

79107 (GOLD PLATED), 78787 (TIN PLATED)

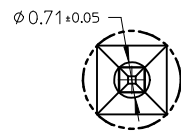
RELEASED EC NO: S2015-1188 DRWN:GMENARLY CHKD:CGOH APPR:KHLIM	2015/04/15 2015/06/29 2015/06/29	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
							MM ONLY		NTS	METRIC			
							DRAWN BY DATE		TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER				
							GMENARLY 2015/04/15						
							CHECKED BY DATE						
							APPROVED BY DATE						
							KHLIM 2015/06/29						
A	REV		QUALITY SYMBOLS	ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
				DRAFT WHERE APPLICABLE			SEE TABLE		SD-87831-0001		2 OF 13		
				MUST REMAIN WITHIN DIMENSIONS			SIZE A 3		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	N.A	YES	YES	N.A	N.A	N.A									2.80											
		87831-5142	N.A	N.A	3																										
		87831-6141	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						2.50														
87831-6142	N.A	N.A	3																												
87831-0443	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A	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) 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 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 <tr><td></td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td></tr>																				10	9	8	7	6	5	4	3	2	1	
	10	9	8	7	6	5	4	3	2	1																					

6 CIRCUITS



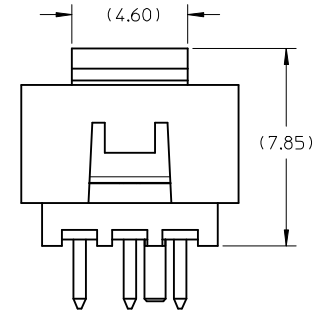
SECTION Y-Y



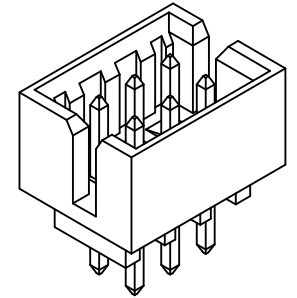
DETAIL3



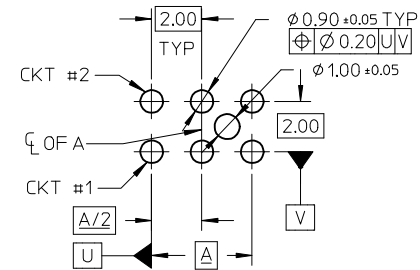
DETAIL4



VIEW FOR
HEADER WITH CAP



VIEW FOR HEADER WITH
ONLY DUAL SLOTS



RECOMMENDED PCB LAYOUT

NOTES:

1. MATERIALS:

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

PIN: 0.50MM SQ PHOSPHOR BRONZE

2. FINISHES: REFER TO PLATING OPTIONS

3. PRODUCT SPECIFICATION: PS-87831-027

4. PACKAGING SPECIFICATION:

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

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

AND CRIMP TERMINAL: 50394 SERIES

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

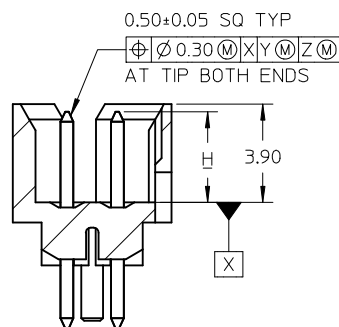
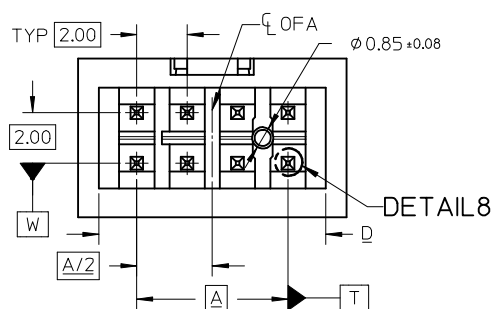
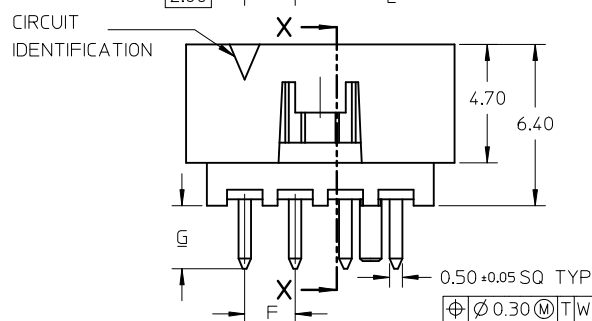
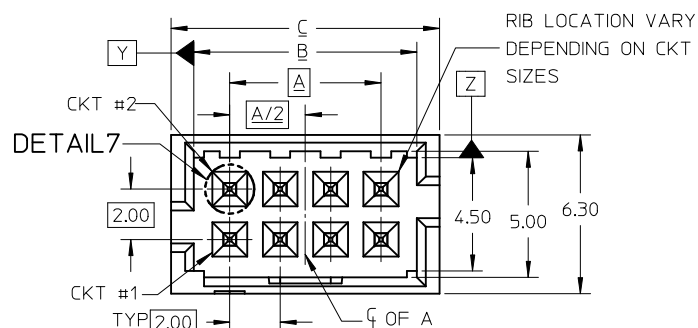
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE:

79107 (GOLD PLATED), 78787 (TIN PLATED)

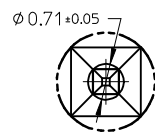
RELEASED EC NO: S2015-1188 DRWNG:GMEARLY CHKD:CGOH APPR:KHLIM 2015/04/15 2015/06/29 2015/06/29	DESCRIPTION	QUALITY SYMBOLS F_A =0 F_C =0 F_P =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION									
					mm	INCH	DRAWN BY GMEARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER									
							CHECKED BY	DATE										
							APPROVED BY KHLIM	DATE 2015/06/29	DOCUMENT NO. SD-87831-0001									
							MATERIAL NO.							SHEET NO. 4 OF 13				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 3 °		SEE TABLE											
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											
		87831-0629	N.A	N.A	3						N.A						2.50				
		87831-0641	N.A	N.A	2						2.00						2.50				
		87831-0642	N.A	87831-5552	3	3.50															
		87831-5241	N.A	N.A	2	2.80															
		87831-5242	N.A	N.A	3																
D	87831-6241	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A	4.00	6.85	8.65	7.00	N.A	2.00	2.50	3.60 ^{+0.15} _{-0.10}	D		
	87831-6242	N.A	N.A	3													2.50				
	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				
	87831-0645	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A							2.50				
	87831-0646	N.A	N.A	3													2.50				
	87831-0632	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A							2.50				
	87831-5119	N.A	N.A	1													N.A			N.A	YES
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 2015/04/15 DRWN:GMENARLY 2015/06/29 CHKD:CGOH 2015/06/29 APPR:KHLIM 2015/06/29 QUALITY SYMBOLS FA=0 FG=0 FP=0 GENERAL TOLERANCES (UNLESS SPECIFIED) 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 CHECKED BY DATE APPROVED BY DATE MATERIAL NO. SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex DOCUMENT NO. SD-87831-0001 SHEET NO. 5 OF 13 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										A
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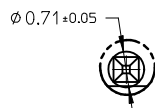
8 TO 12 CIRCUITS



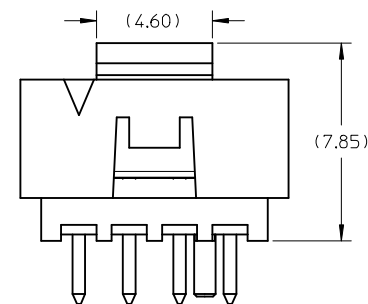
SECTION X-X



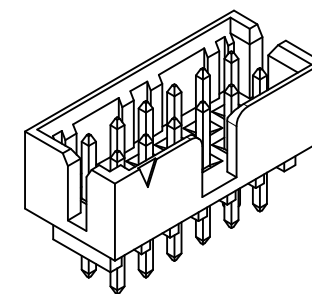
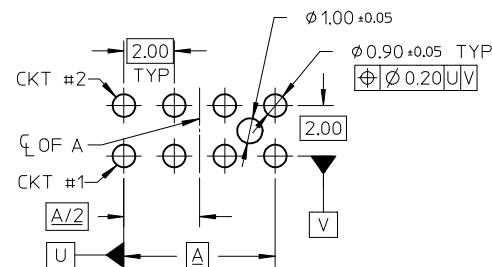
DETAIL 7



DETAIL 8



VIEW FOR HEADER WITH CAP

VIEW FOR HEADER WITH CENTER
POLARIZATION AND DUAL SIDE SLOTS

RECOMMENDED PCB LAYOUT

- NOTES:

1. MATERIALS:

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

PIN: 0.50MM SQ PHOSPHOR BRONZE

2. FINISHES: REFER TO PLATING OPTIONS

3. PRODUCT SPECIFICATION: PS-87831-027

- #### 4. PACKAGING SPECIFICATION:

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

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

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

- C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE:

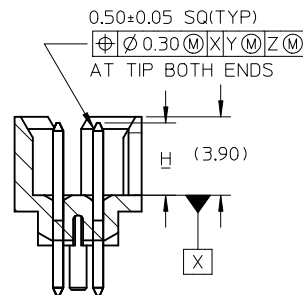
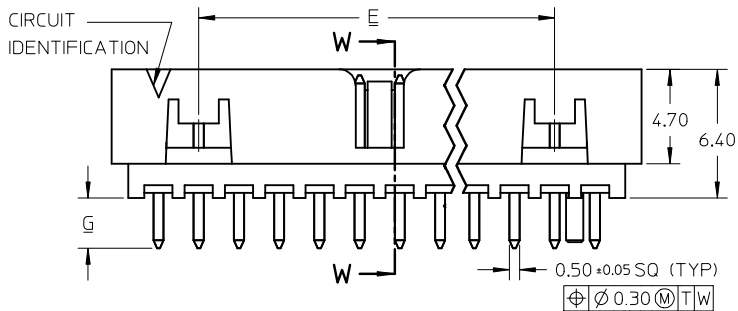
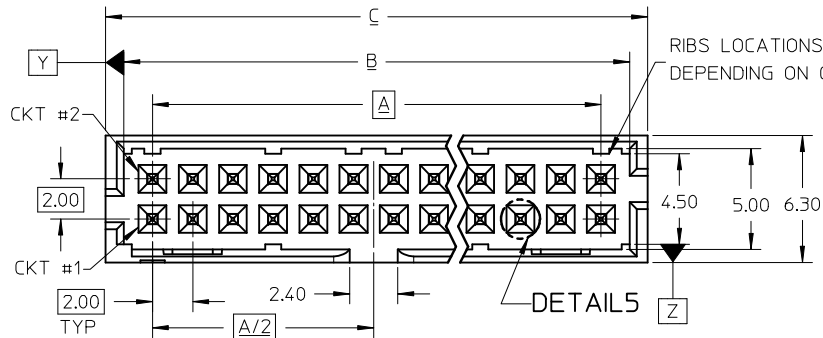
79107 (GOLD PLATED). 78787 (TIN PLATED)

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

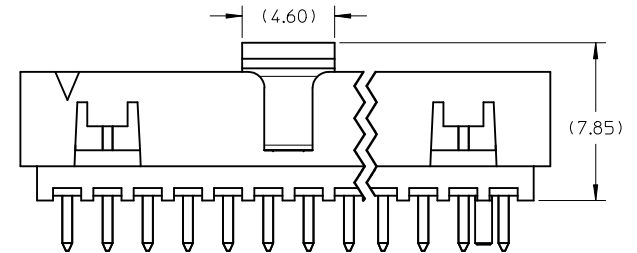
10		9		8		7		6		5		4		3		2		1										
8 CIRCUITS																												
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION								F								
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H									
E	8	87831-0819	N.A	N.A	1	N.A	N.A	YES	N.A	YES	N.A	6.00	8.85	10.65	9.00	N.A	N.A	2.50	3.60±0.20	E								
		87831-0820	N.A	N.A	2																							
		87831-0821	N.A	N.A	3																							
		87831-0836	N.A	N.A	4																							
		87831-0828	N.A	N.A	2	N.A	N.A	YES	N.A	YES	YES						N.A	N.A			N.A	3.00	2.50	3.60±0.15 -0.10	D			
		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	N.A	3.00	2.50	3.60±0.15 -0.10	D		
		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	D								
		87831-5742	N.A	N.A	3																							
		87831-0832	N.A	N.A	2	N.A	YES	YES	N.A	N.A	YES										N.A	N.A	N.A	N.A	3.00	2.50	3.60±0.15 -0.10	D
		87831-0843	N.A	N.A	2																							
		87831-0844	N.A	N.A	3																							
		87831-0845	N.A	N.A	2																							
87831-0846	N.A	N.A	3	N.A	YES	N.A	YES	N.A	YES	N.A	YES																	
C																												
B																												
A																												
PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 4 - 2.50um/100uin MIN, MATTE TIN OVER 1.25um/50uin MIN, NICKEL OVERALL.																												
RELEASED EC NO: S2015-1188 DRWN:GMENARLY 2015/04/15 CHKD:GCOH 2015/06/29 APPR:KHLIM 2015/06/29 A		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 KHLIM 2015/06/29 MATERIAL NO. SEE TABLE		SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION		TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex SD-87831-0001 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	N.A	N.A	YES	N.A	YES	N.A							3.50								
		87831-1010	N.A	N.A	2																					
		87831-1011	N.A	N.A	3																					
		87831-1028	N.A	N.A	2	N.A	N.A	YES	N.A	YES	YES							2.50								
		87831-1029	N.A	N.A	3																					
		87831-1035	N.A	N.A	3																N.A	N.A	YES	N.A	YES	YES
		87831-1041	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A							2.50								
87831-1042	N.A	87831-5553	3	N.A	YES												YES		N.A	N.A						
87831-1032	N.A	N.A	2																		N.A	YES	YES	N.A	N.A	YES
87831-1043	N.A	N.A	2			N.A	YES	N.A	YES	N.A	N.A							2.50								
87831-1044	N.A	N.A	3	N.A	YES												N.A		YES	N.A						
87831-1045	N.A	N.A	2																		N.A	YES	N.A	YES	N.A	YES
87831-1046	N.A	N.A	3																							
D	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	D						
		87831-1220	N.A	N.A	2																					
		87831-1221	N.A	N.A	3																					
		87831-1236	N.A	N.A	4																					
		87831-1228	N.A	N.A	2	N.A	N.A	YES	N.A	YES	YES						2.50									
		87831-1229	N.A	N.A	3																					
		87831-1241	N.A	N.A	2													N.A			YES	YES	N.A	N.A	N.A	2.50
		87831-1242	N.A	N.A	3	N.A	YES	YES	N.A	N.A	N.A						3.50									
		87831-1255	87831-1256	N.A	2																					
		87831-1232	N.A	N.A	2													N.A			YES	N.A	YES	N.A	N.A	2.50
87831-1243	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A	2.50																
87831-1244	N.A	N.A	3								N.A						YES		N.A	YES						
87831-1245	N.A	N.A	2															N.A			YES	N.A	YES	N.A	YES	2.50
87831-1246	N.A	N.A	3																							
C																										
B																				B						
A																				A						
																	</									

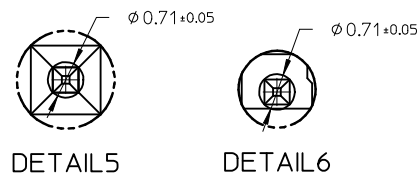
14 TO 50 CIRCUITS



SECTION W-W

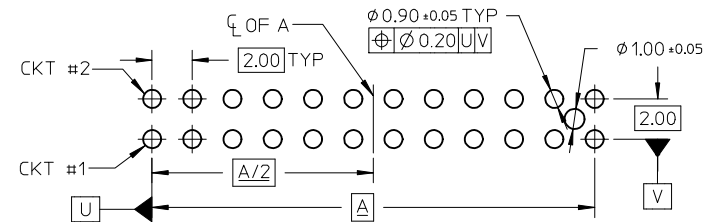


VIEW FOR HEADER WITH CAP



DETAIL 5

DETAIL 6



RECOMMENDED PCB LAYOUT

NOTES:

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

RELEASED EC NO: S2015-1188 DRAWN:GMENARLY CHKD:CGOH APPR:KHL IM 2015/04/15 2015/06/29 2015/06/29	DESCRIPTION REV A	QUALITY SYMBOLS F_A=0 F_G=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
					mm	INCH	DRAWN BY GMENARLY	DATE 2015/04/15	TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER			
			4 PLACES		± ---	± ---	CHECKED BY DATE					
			3 PLACES		± ---	± ---	APPROVED BY KHL IM 2015/06/29		DOCUMENT NO. SD-87831-0001 SHEET NO. 9 OF 13			
			2 PLACES		± 0.20	± ---						
			1 PLACE		± ---	± ---						
			0 PLACE		± ---	± ---	MATERIAL NO.					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			ANGULAR ± 3 °		SEE TABLE							
SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												

		10	9	8	7	6	5	4	3	2	1																							
		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							14.00			16.85	18.65	17.00	10.00	N.A	2.50	3.60±0.20	D						
87831-1410	N.A	N.A	2	2.50																														
87831-1411	N.A	N.A	3	3.50																														
D	16	87831-1619	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														
		87831-1620	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													2.50																
		87831-1629	N.A	N.A	3													3.50																
		87831-1635	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							18.00			20.85	22.65	21.00	14.00	N.A	2.50	3.60±0.20	A						
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																															
87831-1828	N.A	N.A	2																															
87831-1829	N.A	N.A	3	YES	N.A	YES	N.A	YES	N.A	18.00	20.85	22.65	21.00	14.00	N.A	2.50	3.60±0.20	B																
87831-2019	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	YES	N.A	YES	N.A	YES	YES	18.00	20.85	22.65	21.00	14.00	N.A	2.50	3.60±0.20	C																
87831-2010	N.A	N.A	2																															
87831-2011	N.A	N.A	3	YES	N.A	YES	N.A	YES	N.A																									
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:GEMENARLY CHYKD:GGOH APPR:KHL IM 2015/04/15 2015/06/29 2015/06/29 REV A	QUALITY SYMBOLS F=0 F=0 F=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY DATE GMENARLY 2015/04/15 CHECKED BY DATE APPROVED BY DATE KHL IM 2015/06/29 MATERIAL NO. SEE TABLE	SCALE NTS TITLE MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex DOCUMENT NO. SD-87831-0001 SHEET NO. 10 OF 13	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	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					

tb_frame_A3_P_AM_T
Rev. G 2012/01/11

10		9		8		7		6		5		4		3		2		1																		
32 TO 40 CIRCUITS																																				
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION								F																
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H																	
	32	87831-3219	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	30.00	32.85	34.65	33.00	26.00	N.A	2.50	3.60±0.20																	
		87831-3220	N.A	N.A	2																															
		87831-3221	N.A	N.A	3																															
		87831-3236	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50																		
		87831-3228	N.A	N.A	2																															
		87831-3229	N.A	N.A	3																															
E	34	87831-3419	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	32.00	34.85	36.65	35.00	28.00	N.A	2.50	3.60±0.20																	
		87831-3420	N.A	N.A	2																															
		87831-3421	N.A	N.A	3																															
		87831-3436	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50																		
		87831-3428	N.A	N.A	2																															
		87831-3429	N.A	N.A	3																															
				87831-3435	N.A	N.A	3	YES	N.A	YES	N.A							YES		YES	3.50															
D	36	87831-3619	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	34.00	36.85	38.65	37.00	30.00	N.A	2.50	3.60±0.20																	
		87831-3620	N.A	N.A	2																															
		87831-3621	N.A	N.A	3																															
		87831-3636	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50																		
		87831-3628	N.A	N.A	2																															
		87831-3629	N.A	N.A	3																															
C	38	87831-3819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	36.00	38.85	40.65	39.00	32.00	N.A	2.50	3.60±0.20																	
		87831-3820	N.A	N.A	2																															
		87831-3821	N.A	N.A	3																															
		87831-3836	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50																		
		87831-3828	N.A	N.A	2																															
		87831-3829	N.A	N.A	3																															
A	40	87831-4019	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	38.00	40.85	42.65	41.00	34.00	N.A	2.50	3.60±0.20																	
		87831-4020	N.A	N.A	2																															
		87831-4021	N.A	N.A	3																															
		87831-4036	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50																		
		87831-4028	N.A	N.A	2																															
		87831-4029	N.A	N.A	3																															
				87831-4010	N.A	N.A	2	YES	N.A	YES	N.A							YES		N.A	3.50															
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.																				RELEASED EC NO: S2015-1188 DRWN:GMENARLY CHKD:GQH 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) 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		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER molex				SHEET NO. 12 OF 13	
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													
		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																											
E	44	87831-4229	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	42.00	44.85	46.65	45.00	38.00	N.A	2.50	3.60±0.20	E												
		87831-4419	N.A	N.A	1																											
		87831-4420	N.A	N.A	2																											
		87831-4421	N.A	N.A	3																											
		87831-4436	N.A	N.A	4																											
	46	87831-4428	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES	44.00	46.85	48.65	47.00	40.00	N.A	2.50	3.60±0.20	D												
		87831-4429	N.A	N.A	3																											
		87831-4435	N.A	N.A	3																											
		87831-4619	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
		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	48.00	50.85	52.65	51.00	44.00	N.A	2.50																
87831-4629	N.A	N.A	3																													
87831-4819	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			
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	48.00	50.85	52.65	51.00	44.00	N.A	2.50																
87831-4829	N.A	N.A	3																													
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			
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	48.00	50.85	52.65	51.00	44.00	N.A	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	48.00	50.85	52.65	51.00	44.00	N.A	3.50				
B																					B											
A	PLATING OPTIONS: 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL. 4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.																				A											
		9		8		7		6		5		4		3		2		1														



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

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.