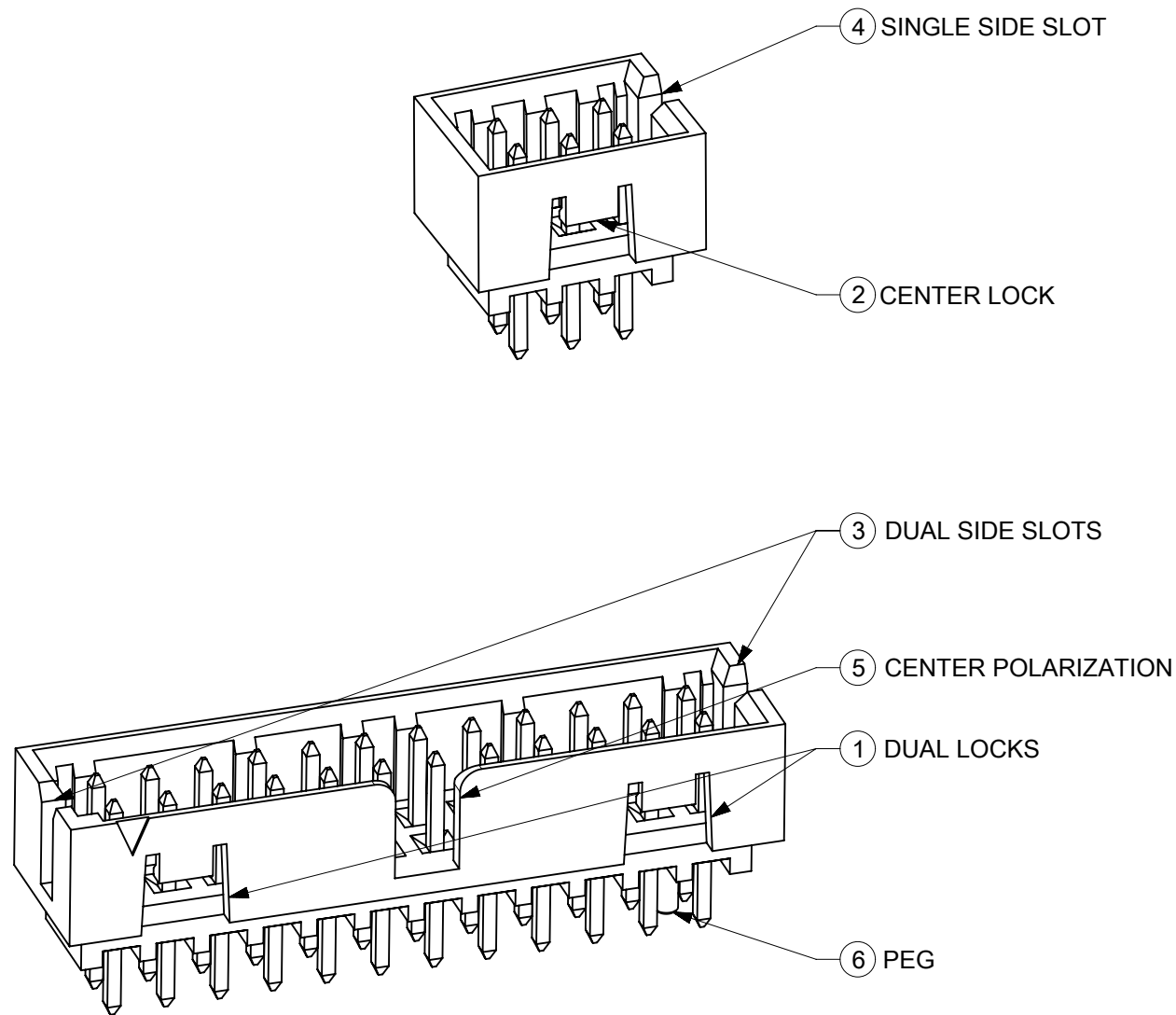


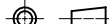
FEATURES SELECTION GUIDE



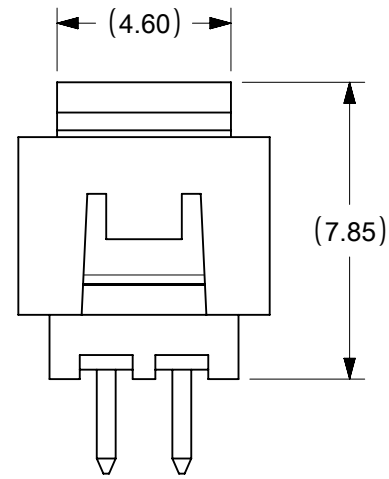
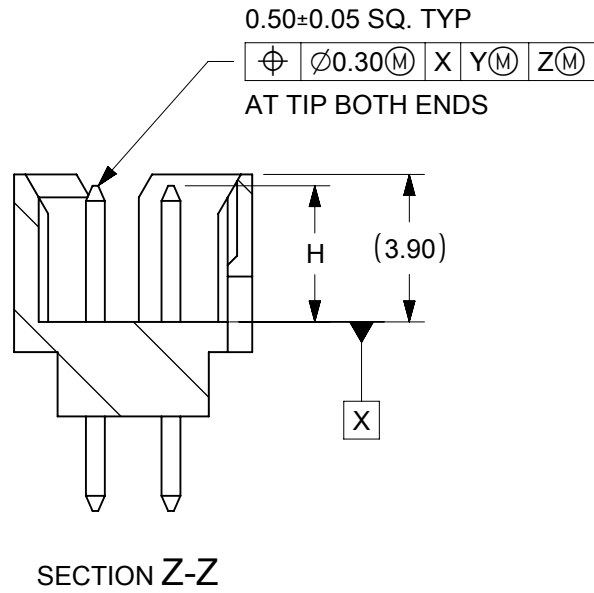
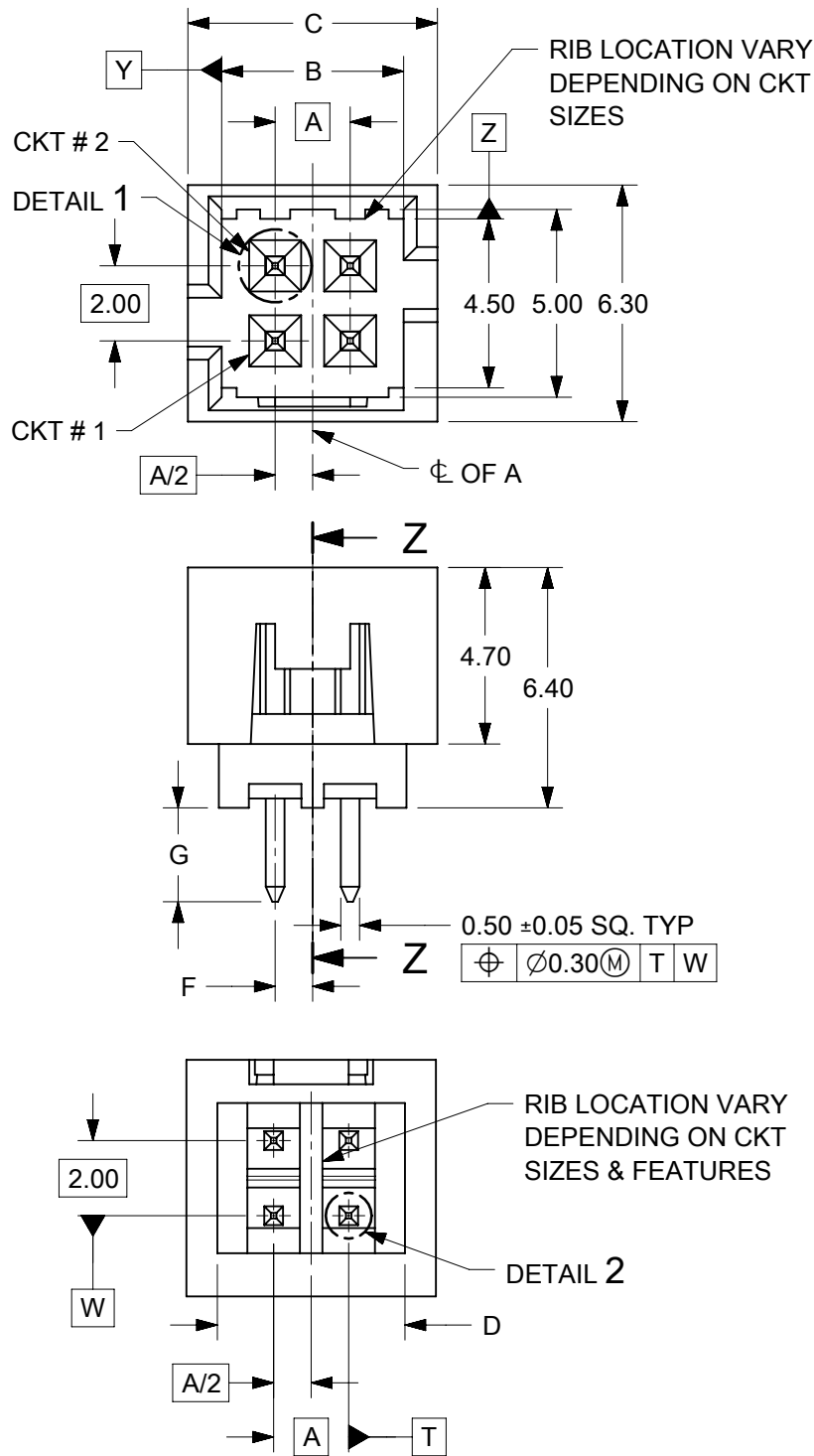
PACKAGING SPECIFICATION TABLE

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

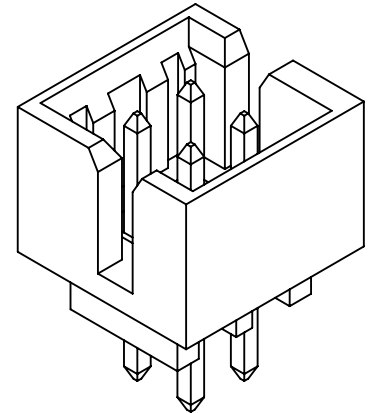
FEATURES							
CIRCUIT SIZE	FRICTION LOCKS		SIDE SLOTS		⑤ CENTER POLARIZATION	⑥ PEG	SHEET NO
	① DUAL	② CENTER	③ DUAL	④ SINGLE			
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3
	N.A	YES	YES	N.A	N.A	N.A	
	N.A	YES	N.A	YES	N.A	N.A	
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5
	N.A	N.A	YES	N.A	N.A	YES	
	N.A	YES	YES	N.A	N.A	N.A	
	N.A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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581.				molex									
mm		NTS															
GENERAL TOLERANCES (UNLESS SPECIFIED)								MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER									
	MM	INCH						PRODUCT CUSTOMER DRAWING									
4 PLACES	±		±														
3 PLACES	±		±	2023/08/14													
2 PLACES	±	0.2	±					2023/09/11									
1 PLACE	±		±	2023/09/11													
0 PLACES	±		±														
ANGULAR TOL				± 3.0 °				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION				DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
								A3-SIZE		87831		SEE TABLE		GENERAL MARKET		1 OF 14	

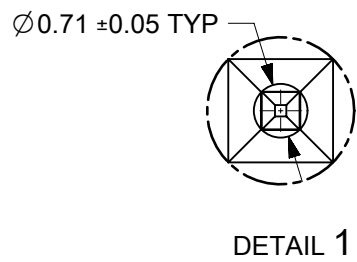
4 CIRCUITS



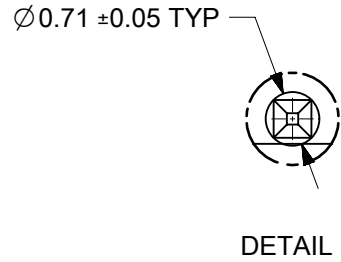
VIEW FOR
HEADER WITH CAP



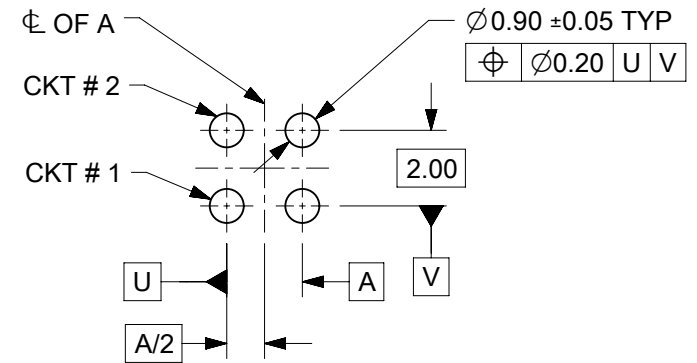
VIEW FOR HEADER
WITH ONLY DUAL SLOTS



DETAIL 1



DETAIL 2



RECOMMENDED PCB LAYOUT

NOTES:

1. MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ. PHOSPHOR BRONZE
2. FINISHES: REFER TO PLATING OPTIONS
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES
AND CRIMP TERMINAL: 50394 SERIES
B. MOLEX 2mm MILLIGRID DUAL ROW IDT: 87568 SERIES
C. MOLEX 2mm MILLIGRID DUAL ROW RECEPTACLE:
79107 (GOLD PLATED), 78787 (TIN PLATED)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581.			molex					
mm	NTS											
GENERAL TOLERANCES (UNLESS SPECIFIED)				MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER								
	MM	INCH										
4 PLACES	±		±	EC NO: 761863 DRWN: SUAIFR 2023/08/14 CHK'D: GGA 2023/09/11 APPR: GGA 2023/09/11			PRODUCT CUSTOMER DRAWING					
3 PLACES	±		±									
2 PLACES	±	0.2	±									
1 PLACE	±		±	INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
0 PLACES	±		±				SD-87831-0001		PSD	001	A24	
ANGULAR TOL ± 3.0 °												
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 		DRAWING A3-SIZE	SERIES 87831	MATERIAL NUMBER SEE TABLE		CUSTOMER GENERAL MARKET		SHEET NUMBER 2 OF 14

DOCUMENT STATUS	P1	RELEASE DATE	2023/09/11	04:36:51
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10	9	8	7	6	5	4	3	2	1									
4 CIRCUITS																		
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
4	87831-0419	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	2.00	4.85	6.65	5.00	N.A	N.A	2.50	3.60±0.20
	87831-0420	N.A	N.A	2														
	87831-0421	N.A	N.A	3														
	87831-0436	N.A	N.A	4														
	87831-0441	87831-0456	N.A	2	N.A	YES	YES	N.A	N.A	N.A						1.00	2.50	
	87831-0442	N.A	87831-5565	3														
	87831-5141	N.A	N.A	2	N.A	YES	YES	N.A	N.A	3.50								
	87831-5142	N.A	N.A	3														
	87831-6141	N.A	N.A	2	N.A	YES	YES	N.A	N.A	2.80								
	87831-6142	N.A	N.A	3														
	87831-0443	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A							2.50	
	87831-0444	N.A	N.A	3														

PLATING OPTIONS:

1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

2 - 0.38µm/15µin GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

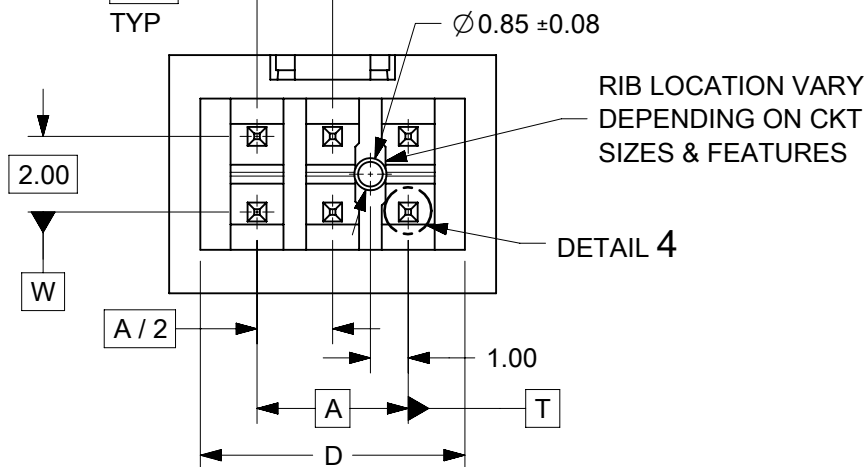
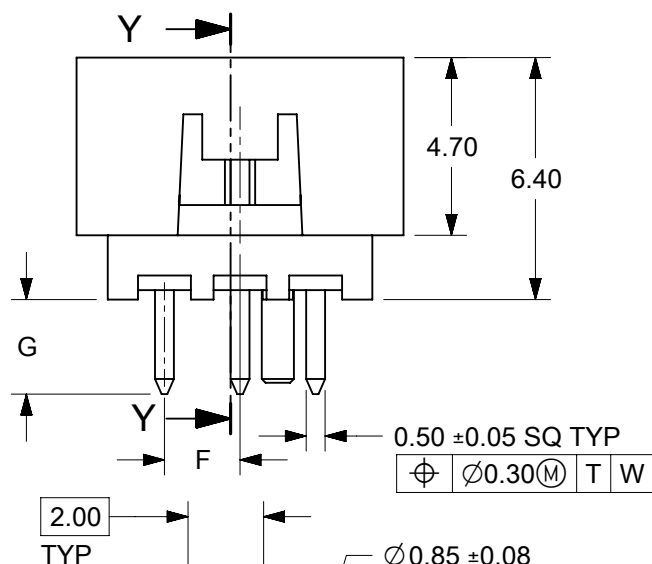
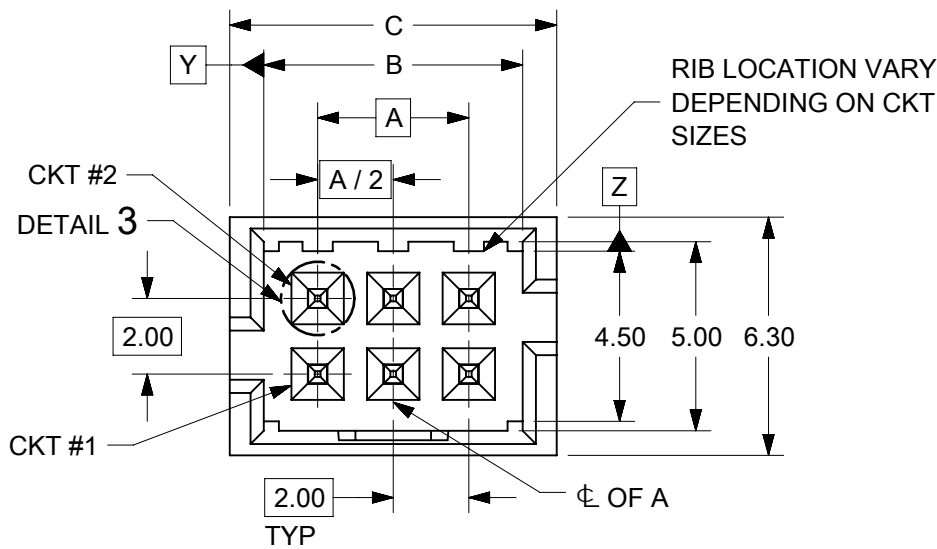
3 - 0.76µm/30µin GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTETIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.

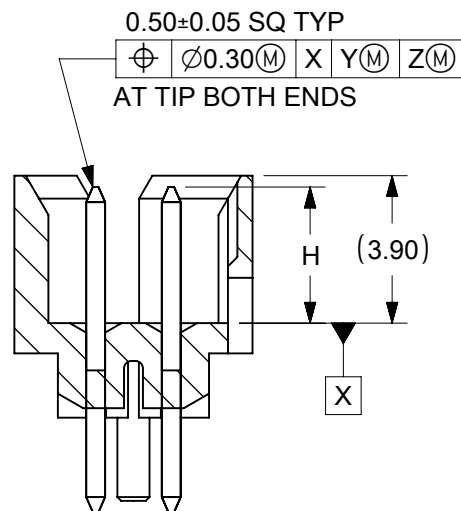
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581.				molex						
mm		NTS												
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 761863 DRWN: SUAIFR CHK'D: GGA APPR: GGA 2023/08/14 2023/09/11 2023/09/11								PRODUCT CUSTOMER DRAWING		
	MM	INCH												
4 PLACES	±	±												
3 PLACES	±	±												
2 PLACES	±	0.2	±											
1 PLACE	±	±		INITIAL REVISION: DRWN: GMENARLY APPR: KHLIM 2015/04/15 2015/06/29				DOCUMENT NUMBER SD-87831-0001		DOC TYPE PSD	DOC PART 001	REVISION A24		
0 PLACES	±	±												
ANGULAR TOL		±	3.0 °	THIRD ANGLE PROJECTION				DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								A3-SIZE	87831	SEE TABLE		GENERAL MARKET		3 OF 14

DOCUMENT STATUS	P1	RELEASE DATE	2023/09/11	04:36:51				
9	8	7	6	5	4	3	2	1

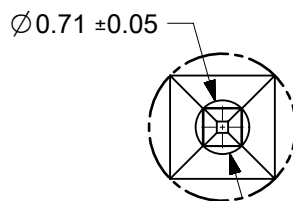
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REVISION: E1
DATE: 20210501



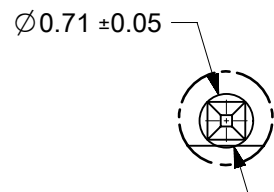
6 CIRCUITS



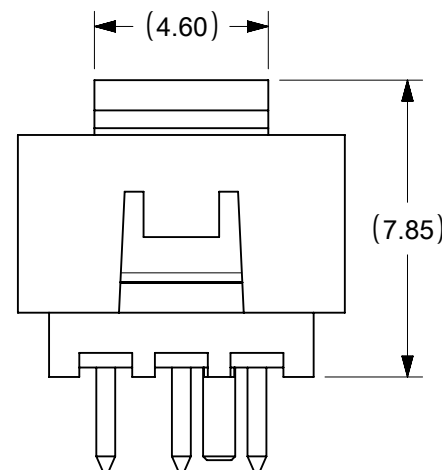
SECTION Y-Y



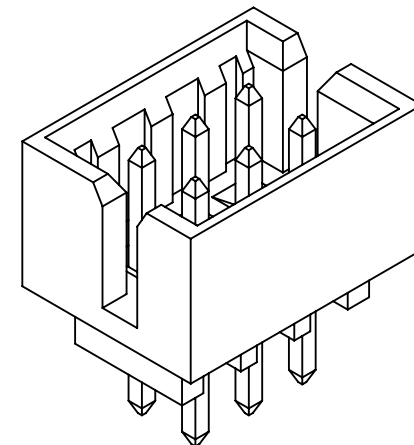
DETAIL 3



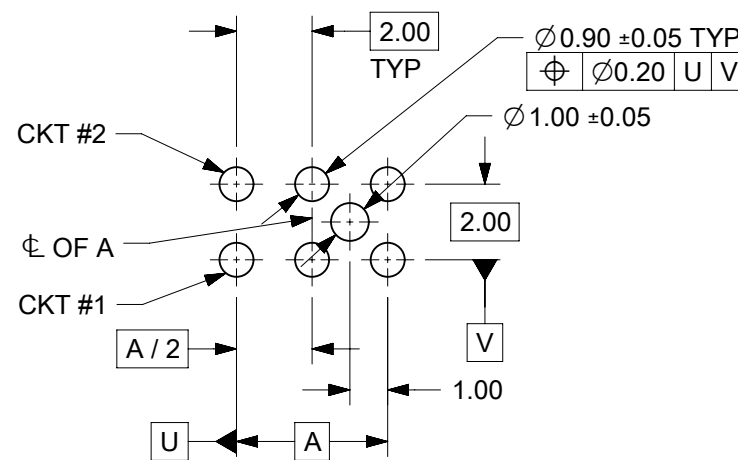
DETAIL 4



VIEW FOR
HEADER WITH CAP



VIEW FOR HEADER WITH
ONLY DUAL SLOTS



RECOMMENDED PCB LAYOUT

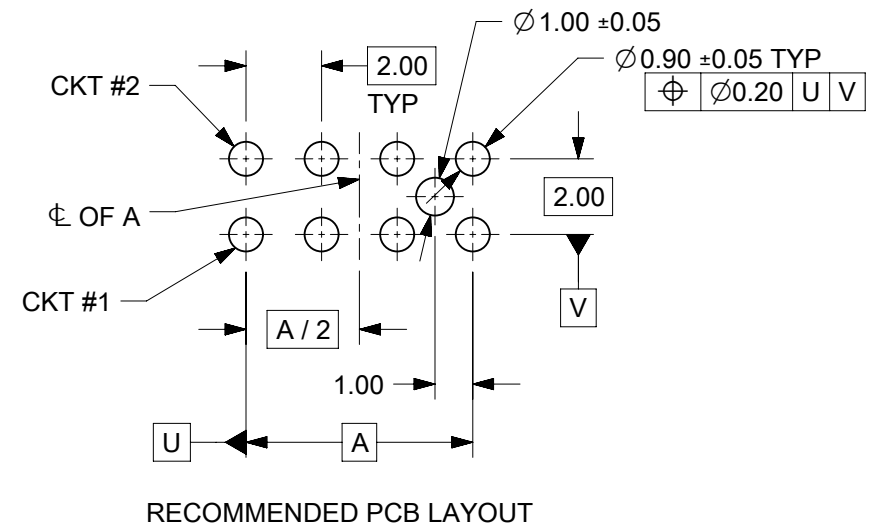
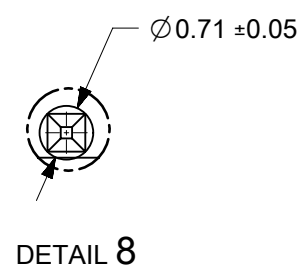
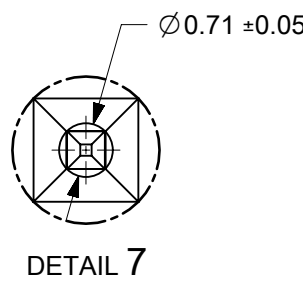
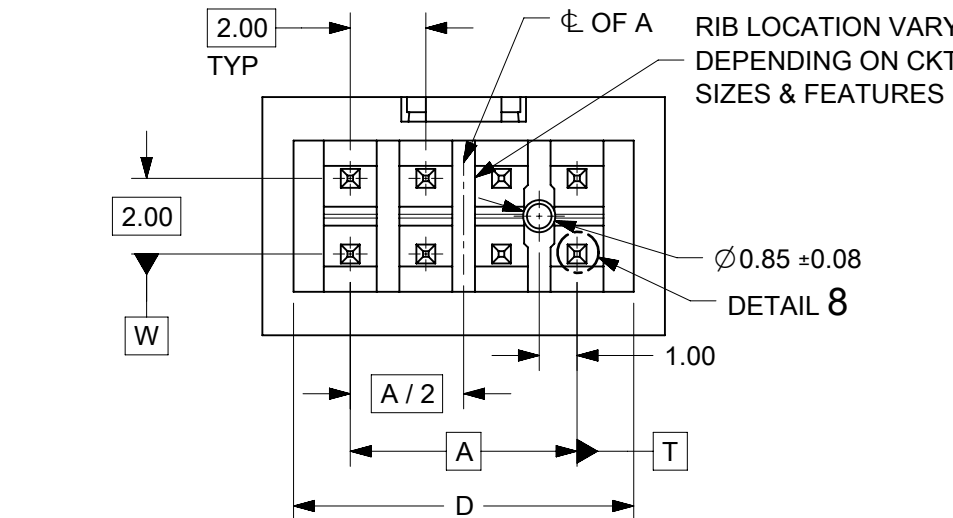
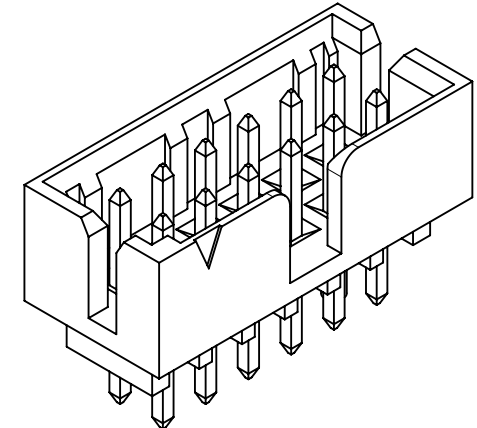
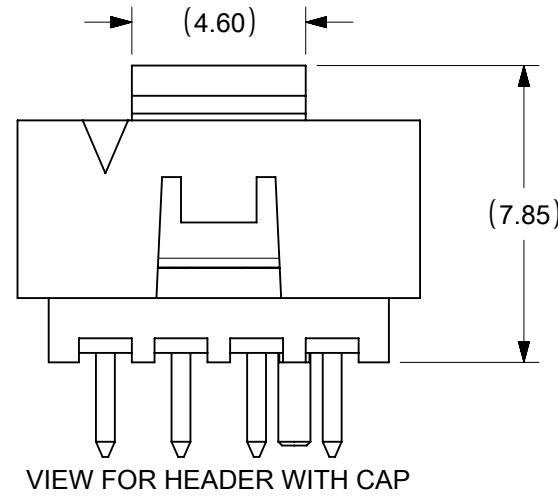
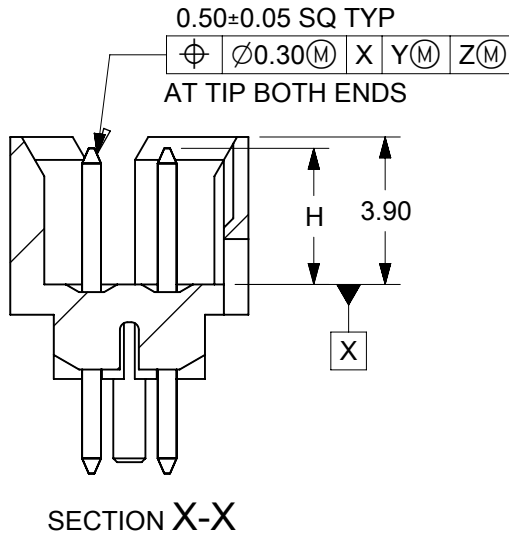
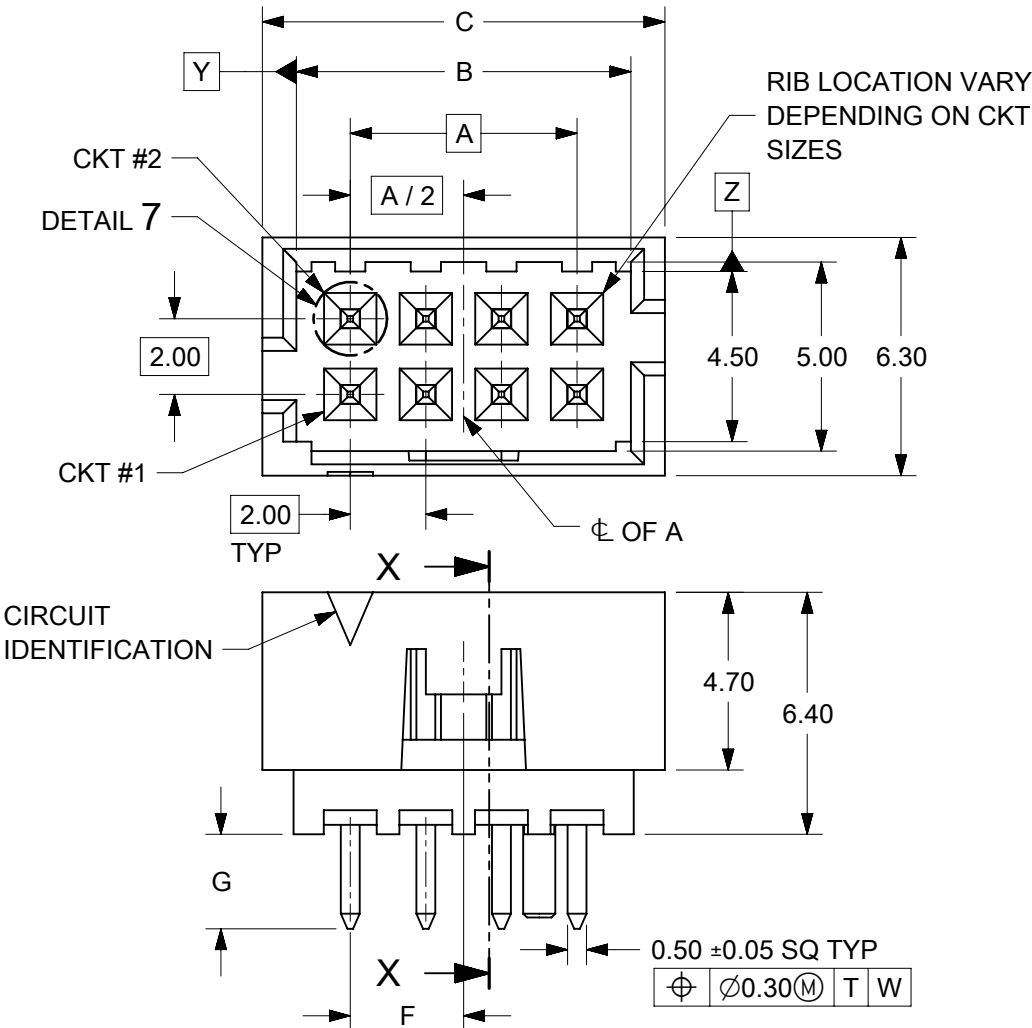
NOTES:

- MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ PHOSPHOR BRONZE
- FINISHES: REFER TO PLATING OPTIONS
- PRODUCT SPECIFICATION: PS-87831-027
- PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
- MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES
AND CRIMP TERMINAL: 50394 SERIES
B. MOLEX 2mm MILLIGRID DUAL ROW IDT: 87568 SERIES
C. MOLEX 2mm MILLIGRID DUAL ROW RECEPTACLE:
79107 (GOLD PLATED), 78787 (TIN PLATED)

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581.				molex	
mm		NTS							
GENERAL TOLERANCES (UNLESS SPECIFIED)				MILLGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER					
	MM	INCH							
4 PLACES	±	±							
3 PLACES	±	±		EC NO: 761863 DRWN: SUAIFR 2023/08/14 CHK'D: GGA 2023/09/11 APPR: GGA 2023/09/11					
2 PLACES	± 0.2	±							
1 PLACE	±	±							
0 PLACES	±	±		INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29					
ANGULAR TOL ± 3.0 °									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
		A3-SIZE		87831		SEE TABLE		CUSTOMER	
				SD-87831-0001		DOCUMENT NUMBER		DOC TYPE	
				PSD		DOC PART		REVISION	
				9001		A24			
				GENERAL MARKET		SHEET NUMBER		4 OF 14	

	10	9	8	7	6	5	4	3	2	1														
F	6 CIRCUITS										F													
	6	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION											
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H					
		87831-0619	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	4.00	6.85	8.65	7.00	N.A	N.A	2.50	3.60±0.20					
		87831-0620	N.A	N.A	2																			
		87831-0621	N.A	N.A	3																			
E		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						
		87831-0629	N.A	N.A	3																			
		87831-0641	N.A	87831-0647	2	N.A	YES	YES	N.A	N.A	N.A						2.00	2.50						
		87831-0642	N.A	87831-5552	3															N.A	YES	YES	N.A	N.A
D		87831-5241	N.A	N.A	2	N.A	YES	YES	N.A	N.A	2.80													
		87831-5242	N.A	N.A	3														N.A					
		87831-6241	N.A	N.A	2	N.A	YES	YES	N.A	N.A	2.50							3.60 ^{+0.15} -0.10						
		87831-6242	N.A	N.A	3														N.A	YES	N.A	YES	N.A	YES
		87831-0643	N.A	N.A	2	N.A	YES	N.A	YES	N.A	YES													
		87831-0644	N.A	N.A	3													N.A	YES	N.A	YES	N.A	YES	2.50
C		87831-0645	N.A	N.A	2	N.A	YES	N.A	YES	N.A	YES													
		87831-0646	N.A	N.A	3													N.A	YES	N.A	YES	N.A	YES	2.50
		87831-0632	N.A	N.A	2	N.A	YES	YES	N.A	N.A	YES													
		87831-5119	N.A	N.A	1												N.A	N.A	YES	N.A	YES	N.A	N.A	2.50
		87831-5121	N.A	N.A	3																			
		87831-5136	N.A	N.A	4																			
B																					B			
A	PLATING OPTIONS: 1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL. 2 - 0.38µm/15µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL. 3 - 0.76µm/30µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL. 4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.																				A			
	DOCUMENT STATUS	P1	RELEASE DATE	2023/09/11	04:36:51	7	6	5	4	3	2	1												
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	REVISION: E1																							
	DATE: 2021/05/11																							

8 TO 12 CIRCUITS



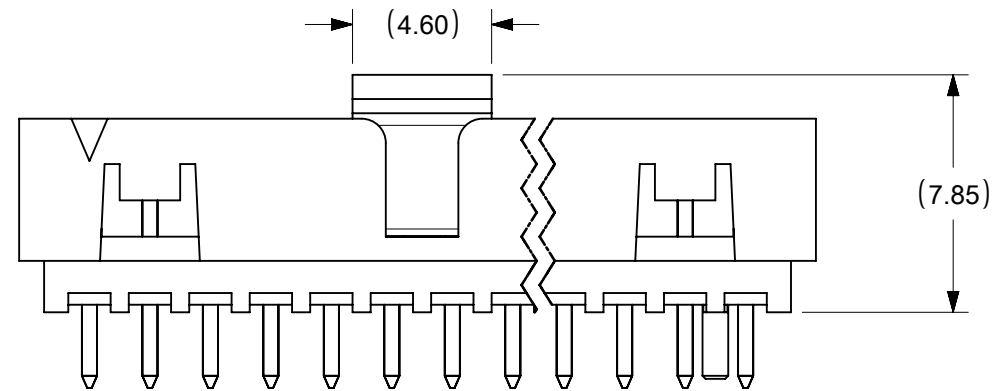
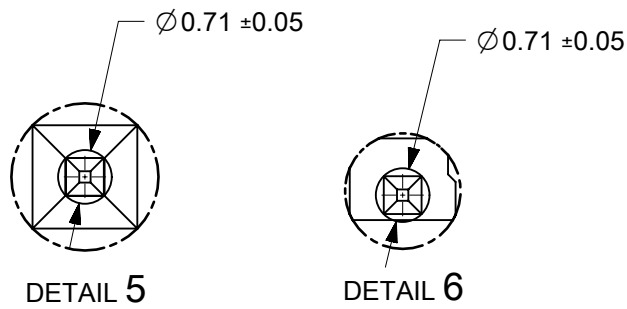
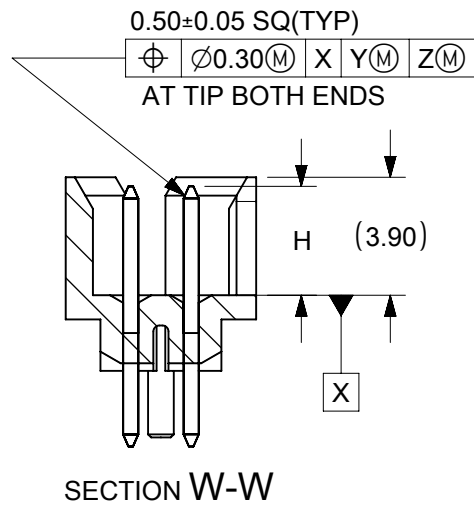
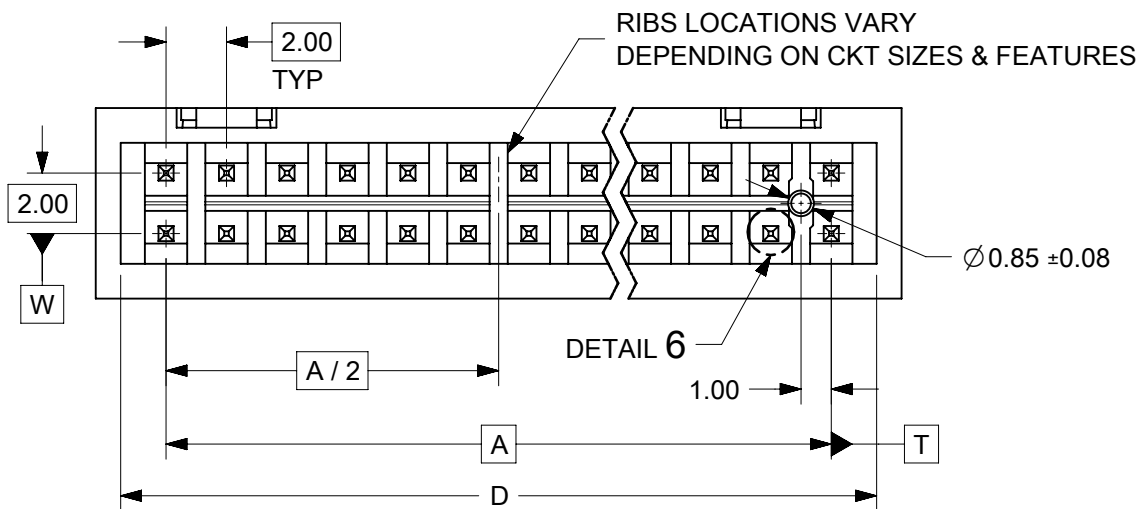
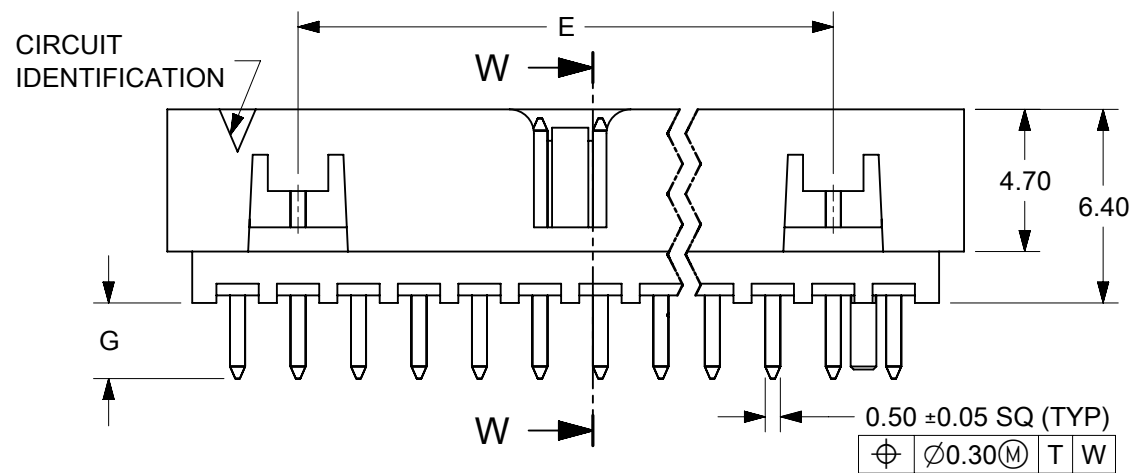
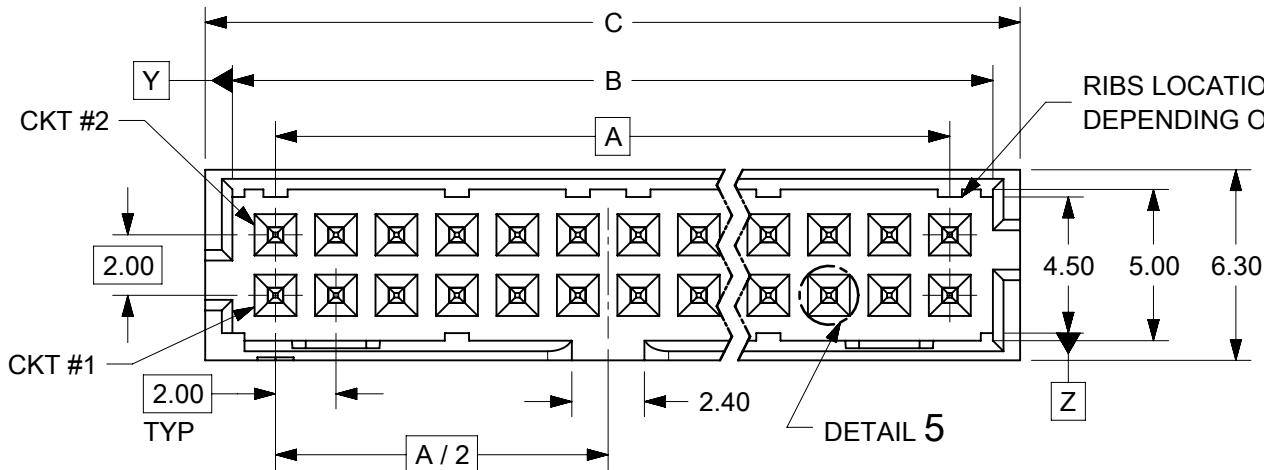
NOTES:
1. MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ PHOSPHOR BRONZE
2. FINISHES: REFER TO PLATING OPTIONS
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES
AND CRIMP TERMINAL: 50394 SERIES
B. MOLEX 2mm MILLIGRID DUAL ROW IDT: 87568 SERIES
C. MOLEX 2mm MILLIGRID DUAL ROW RECEPTACLE:
79107 (GOLD PLATED), 78787 (TIN PLATED)

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581.			molex MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER		
mm	NTS								
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 761863 DRWN: SUAIFR 2023/08/14 CHK'D: GGA 2023/09/11 APPR: GGA 2023/09/11					
	MM	INCH							
4 PLACES	±	±	INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29						
3 PLACES	±	±							
2 PLACES	± 0.2	±	DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION	
1 PLACE	±	±	SD-87831-0001			PSD	001	A24	
0 PLACES	±	±	PRODUCT CUSTOMER DRAWING						
ANGULAR TOL		± 3.0 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION		DRAWING	SERIES
					A3-SIZE	87831	MATERIAL NUMBER		CUSTOMER
					SEE TABLE	GENERAL MARKET		SHEET NUMBER 6 OF 14	

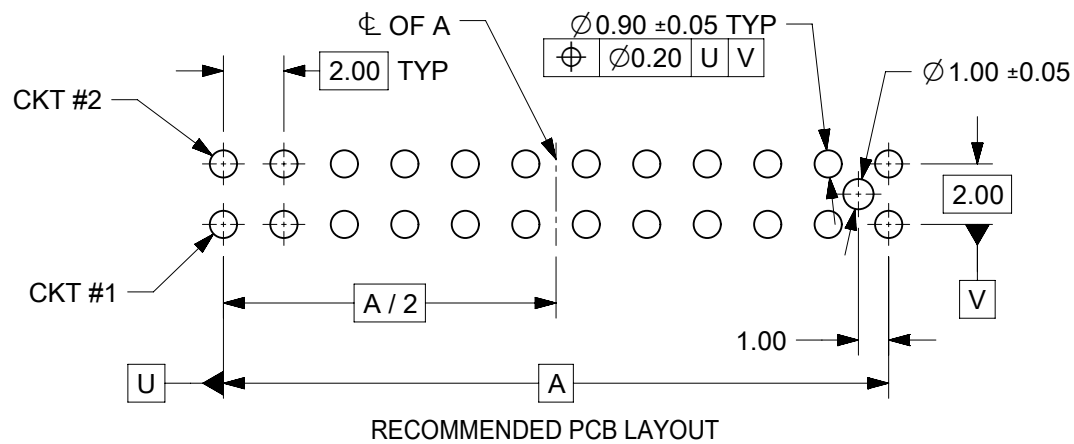
DOCUMENT STATUS	P1	RELEASE DATE	2023/09/11	04:36:51
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10	9	8	7	6	5	4	3	2	1											
10 TO 12 CIRCUITS																				
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	ASSY P/N WITHOUT CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTE R POLARI ZATION	PEG	DIMENSION								
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H	
10	87831-1019	N.A	N.A		1	N.A	N.A	YES	N.A	YES	N.A	8.00	10.85	12.65	11.00	N.A	N.A	2.50	3.60±0.20	
	87831-1020	N.A	87831-1070	2																
	87831-1021	N.A	87831-5562	3																
	87831-1036	N.A	N.A	4																
	87831-1010	N.A	87831-5561	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																
	87831-1029	N.A	87831-5557	3	N.A	N.A	YES	N.A	YES	YES								2.50		
	87831-1035	N.A	N.A	3																
	87831-1041	N.A	N.A	2																
	87831-1042	N.A	87831-5553	3	N.A	YES	YES	N.A	N.A	N.A	2.50									
	87831-1032	N.A	N.A	2																
	87831-1043	N.A	N.A	2																
	87831-1044	N.A	N.A	3	N.A	YES	N.A	YES	N.A	N.A							4.00	2.50		
	87831-1045	N.A	N.A	2																
87831-1046	N.A	N.A	3																	
12	87831-1219	N.A	N.A		1	N.A	N.A	YES	N.A	YES	N.A	10.00	12.85	14.65	13.00	N.A			N.A	2.50
	87831-1220	N.A	87831-5556	2																
	87831-1221	N.A	N.A	3																
	87831-1236	N.A	N.A	4																
	87831-1228	N.A	N.A	2	N.A	N.A	YES	N.A	YES	YES	3.50									
	87831-1229	N.A	87831-5558	3																
	87831-1258	N.A	87831-5567	2																
	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	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																
	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																
PLATING OPTIONS: 1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL. 2 - 0.38µm/15µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL. 3 - 0.76µm/30µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL. 4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.																				
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS mm SCALE NTS GENERAL TOLERANCES (UNLESS SPECIFIED) MM INCH 4 PLACES ± ± 3 PLACES ± ± 2 PLACES ± 0.2 ± 1 PLACE ± ± 0 PLACES ± ± ANGULAR TOL ± 3.0 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION DRAWING A3-SIZE SERIES 87831 MATERIAL NUMBER SEE TABLE CUSTOMER GENERAL MARKET SHEET NUMBER 8 OF 14 EC NO: 761863 DRWN: SUAIFR CHK'D: GGA APPR: GGA 2023/08/14 2023/09/11 2023/09/11 INITIAL REVISION: DRWN: GMENARLY APPR: KHLIM 2015/04/15 2015/06/29 DOCUMENT NUMBER SD-87831-0001 DOC TYPE PSD DOC PART 001 REVISION A24 CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581. PRODUCT CUSTOMER DRAWING DOCUMENT STATUS P1 RELEASE DATE 2023/09/11 04:36:51																				
10	9	8	7	6	5	4	3	2	1											

14 TO 50 CIRCUITS



VIEW FOR HEADER WITH CAP



- NOTES:
- MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ PHOSPHOR BRONZE
 - FINISHES: REFER TO PLATING OPTIONS
 - PRODUCT SPECIFICATION: PS-87831-027
 - PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
 - MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES
B. MOLEX 2mm MILLIGRID DUAL ROW IDT: 87568 SERIES
C. MOLEX 2mm MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581.		molex				
mm		NTS								
GENERAL TOLERANCES (UNLESS SPECIFIED)				MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER						
	MM	INCH								
4 PLACES	±	±		EC NO: 761863 DRWN: SUAIFR CHK'D: GGA APPR: GGA 2023/08/14 2023/09/11 2023/09/11		PRODUCT CUSTOMER DRAWING				
3 PLACES	±	±								
2 PLACES	±	0.2	±							
1 PLACE	±	±		INITIAL REVISION: DRWN: GMENARLY APPR: KHLIM 2015/04/15 2015/06/29		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
0 PLACES	±	±				SD-87831-0001		PSD	001	A24
ANGULAR TOL		± 3.0 °								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
				A3-SIZE		87831		SEE TABLE	GENERAL MARKET	9 OF 14

10	9	8	7	6	5	4	3	2	1												
22 TO 30 CIRCUITS																					
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	ASSY P/N WITHOUT CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION									
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H		
22	87831-2219	N.A	N.A	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	N.A	2																
	87831-2221	N.A	N.A	N.A	3																
	87831-2236	N.A	N.A	N.A	4																
	87831-2228	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50			
	87831-2229	N.A	N.A	N.A	3																
24	87831-2419	N.A	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	87831-7420	2																
	87831-2421	N.A	N.A	N.A	3																
	87831-2436	N.A	N.A	N.A	4																
	87831-2428	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50			
	87831-2429	N.A	N.A	N.A	3																
	87831-2435	N.A	N.A	N.A	3																
	87831-2445	N.A	N.A	N.A	3																
	87831-2410	N.A	N.A	N.A	2													YES		N.A	YES
26	87831-2619	N.A	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	24.00	26.85	28.65	27.00	20.00	N.A	2.50	3.60±0.20		
	87831-2620	87831-2630	87831-5555	N.A	2																
	87831-2621	N.A	N.A	N.A	3																
	87831-2636	N.A	N.A	N.A	4																
	87831-2628	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50			
	87831-2629	N.A	N.A	N.A	3																
	87831-2610	N.A	N.A	N.A	2															YES	N.A
28	87831-2819	N.A	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	N.A	2																
	87831-2821	N.A	N.A	N.A	3																
	87831-2836	N.A	N.A	N.A	4																
	87831-2828	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50			
	87831-2829	N.A	N.A	N.A	3																
30	87831-3019	N.A	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	N.A	2																
	87831-3021	N.A	N.A	N.A	3																
	87831-3036	N.A	N.A	N.A	4																
	87831-3028	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50			
	87831-3029	N.A	N.A	N.A	3																
	87831-3035	N.A	N.A	N.A	3																
	87831-3037	N.A	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50			
	87831-3010	87831-3030	87831-3050	N.A	2	YES	N.A	YES	N.A	YES	N.A							3.50			
PLATING OPTIONS:																					
1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.																					
2 - 0.38µm/15µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.																					
3 - 0.76µm/30µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.																					
4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.																					
DOCUMENT STATUS		P1	RELEASE DATE	2023/09/11	04:36:51																
FORMAT: Met-lega-master-ib-prod-A3 REVISION: E1 DATE: 2021/05/01		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																																																																																					
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H																																																																														
	32	87831-3219	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	30.00	32.85	34.65	33.00	26.00	N.A	2.50	3.60±0.20																																																																														
		87831-3220	N.A	N.A	2																																																																																												
		87831-3221	N.A	N.A	3																																																																																												
		87831-3236	N.A	N.A	4																																																																																												
		87831-3228	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50																																																																															
87831-3229	N.A	N.A	3																																																																																														
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	YES	N.A	YES	N.A	YES	YES							2.50																																																																															
		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	87831-5564	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																																																																																												
B	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																																																																																												
		87831-4010	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A	3.50																																																																																					
PLATING OPTIONS:																																																																																																	
1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.																																																																																																	
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3 - 0.76µm/30µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.																																																																																																	
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DOCUMENT STATUS		P1	RELEASE DATE	2023/09/11	04:36:51	7		6		5		4		3		2		1																																																																															
FORMAT: Met-lega-master-ib-prod-A3 REVISION: E1 DATE: 2021/05/01		9		8		7		6		5		4		3		2		1																																																																															
<table><tr><td colspan="2">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr><tr><td>DIMENSION UNITS</td><td>SCALE</td><td colspan="2" rowspan="2">CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581.</td><td colspan="2" rowspan="2"> molex </td></tr><tr><td>mm</td><td>NTS</td></tr><tr><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2" rowspan="2">EC NO: 761863 DRWN: SUAIFR CHK'D: GGA APPR: GGA 2023/08/14 2023/09/11 2023/09/11</td><td colspan="2" rowspan="2">MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER</td></tr><tr><td></td><td></td></tr><tr><td>4 PLACES</td><td>±</td><td>±</td><td colspan="2" rowspan="2">INITIAL REVISION:</td><td colspan="2" rowspan="2">DOCUMENT NUMBER</td><td colspan="2" rowspan="2">DOC TYPE</td><td colspan="2" rowspan="2">DOC PART</td><td colspan="2" rowspan="2">REVISION</td></tr><tr><td>3 PLACES</td><td>±</td><td>±</td></tr><tr><td>2 PLACES</td><td>±</td><td>0.2</td><td colspan="2" rowspan="2">DRWN: GMENARLY APPR: KHLIM 2015/04/15 2015/06/29</td><td colspan="2" rowspan="2">SD-87831-0001</td><td colspan="2" rowspan="2">PSD</td><td colspan="2" rowspan="2">001</td><td colspan="2" rowspan="2">A24</td></tr><tr><td>1 PLACE</td><td>±</td><td>±</td></tr><tr><td>0 PLACES</td><td>±</td><td>±</td><td colspan="2" rowspan="2">THIRD ANGLE PROJECTION</td><td colspan="2" rowspan="2">DRAWING</td><td colspan="2" rowspan="2">SERIES</td><td colspan="2" rowspan="2">MATERIAL NUMBER</td><td colspan="2" rowspan="2">CUSTOMER</td></tr><tr><td>ANGULAR TOL</td><td>±</td><td>3.0 °</td></tr><tr><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">A3-SIZE</td><td colspan="2">87831</td><td colspan="2">SEE TABLE</td><td colspan="2">GENERAL MARKET</td><td colspan="2">12 OF 14</td></tr></table>																				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DIMENSION UNITS	SCALE	CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581.		molex		mm	NTS	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 761863 DRWN: SUAIFR CHK'D: GGA APPR: GGA 2023/08/14 2023/09/11 2023/09/11		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER				4 PLACES	±	±	INITIAL REVISION:		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION		3 PLACES	±	±	2 PLACES	±	0.2	DRWN: GMENARLY APPR: KHLIM 2015/04/15 2015/06/29		SD-87831-0001		PSD		001		A24		1 PLACE	±	±	0 PLACES	±	±	THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		ANGULAR TOL	±	3.0 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3-SIZE		87831		SEE TABLE		GENERAL MARKET		12 OF 14	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																																																																																																	
DIMENSION UNITS	SCALE	CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581.		molex																																																																																													
mm	NTS																																																																																																
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 761863 DRWN: SUAIFR CHK'D: GGA APPR: GGA 2023/08/14 2023/09/11 2023/09/11		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER																																																																																													
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1 PLACE	±	±																																																																																															
0 PLACES	±	±	THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER																																																																																						
ANGULAR TOL	±	3.0 °																																																																																															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3-SIZE		87831		SEE TABLE		GENERAL MARKET		12 OF 14																																																																																							

10		9		8		7		6		5		4		3		2		1	
42 TO 50 CIRCUITS																			
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	ASSY P/N WITHOUT CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATI ON	PEG	DIMENSION							
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
42	87831-4219	N.A	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	87831-4230	2														
	87831-4221	N.A	N.A	N.A	3														
	87831-4236	N.A	N.A	N.A	4														
	87831-4228	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-4229	N.A	N.A	N.A	3														
44	87831-4419	N.A	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	N.A	2														
	87831-4421	N.A	N.A	N.A	3														
	87831-4436	N.A	N.A	N.A	4														
	87831-4428	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-4429	N.A	N.A	N.A	3														
	87831-4435	N.A	N.A	N.A	3														
46	87831-4619	N.A	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	N.A	2														
	87831-4621	N.A	N.A	N.A	3														
	87831-4636	N.A	N.A	N.A	4														
	87831-4628	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-4629	N.A	N.A	N.A	3														
48	87831-4819	N.A	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	N.A	2														
	87831-4821	N.A	N.A	N.A	3														
	87831-4836	N.A	N.A	N.A	4														
	87831-4828	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-4829	N.A	N.A	N.A	3														
50	87831-5019	N.A	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	N.A	2														
	87831-5021	N.A	N.A	N.A	3														
	87831-5036	N.A	N.A	N.A	4														
	87831-5028	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-5029	N.A	N.A	N.A	3														
	87831-5035	N.A	N.A	N.A	3														
PLATING OPTIONS:																			
1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.																			
2 - 0.38µm/15µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.																			
3 - 0.76µm/30µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.																			
4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.																			
DOCUMENT STATUS		P1	RELEASE DATE	2023/09/11	04:36:51														
9		8		7		6		5		4		3		2		1			

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS

mm

SCALE

NTS

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	±
2 PLACES	± 0.2	±
1 PLACE	±	±
0 PLACES	±	±
ANGULAR TOL	± 3.0 °	

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

87831

CURRENT REV DESC: REMOVED OBSOLETE PART
NUMBERS AS PER PCN#512581.

EC NO: 761863
DRWN: SUAIFR
CHK'D: GGA
APPR: GGA

2023/08/14
2023/09/11
2023/09/11

INITIAL REVISION:
DRWN: GMENARLY
APPR: KHLIM

2015/04/15
2015/06/29

DOCUMENT NUMBER

SD-87831-0001

DOC TYPE

PSD

DOC PART

001

REVISION

A24

PRODUCT CUSTOMER DRAWING

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

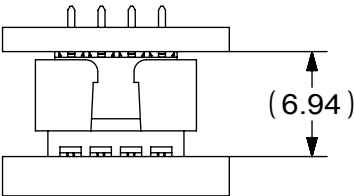
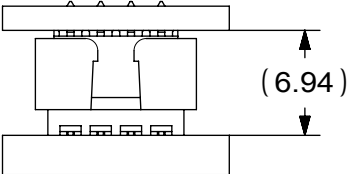
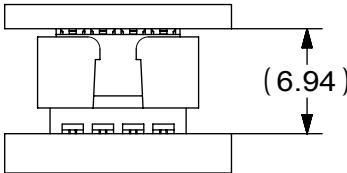
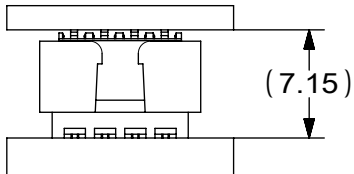
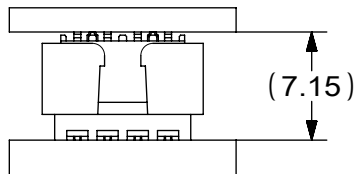
SHEET NUMBER

13 OF 14

MILLIGRID
2MM PITCH, THROUGH HOLE VERTICAL SHROUDED
HEADER

molex

BOARD TO BOARD (BTB) DISTANCE

HEADER	MATES WITH (RECEPTACLE)	BTB DIST.	PICTORIAL VIEW
87831	79107	6.94	
	78787	6.94	
	79108	6.94	
	79109	7.15	
	78788	7.15	

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DIMENSION UNITS		SCALE	
mm		NTS	
GENERAL TOLERANCES (UNLESS SPECIFIED)			
	MM	INCH	
4 PLACES	±	±	
3 PLACES	±	±	
2 PLACES	± 0.2	±	
1 PLACE	±	±	
0 PLACES	±	±	
ANGULAR TOL		± 3.0 °	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			

CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581.

EC NO: 761863
DRWN: SUAIFR
CHK'D: GGA
APPR: GGA

INITIAL REVISION:
DRWN: DRWN BY
APPR: APPR BY

2023/08/14
2023/09/11
2023/09/11

XXXX/XX/XX
XXXX/XX/XX

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

moLEX

MILLIGRID
2MM PITCH, THROUGH HOLE VERTICAL SHROUDED
HEADER

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

SD-87831-0001

DOC TYPE

PSD

DOC PART

001

REVISION

A24

GENERAL MARKET

14 OF 14