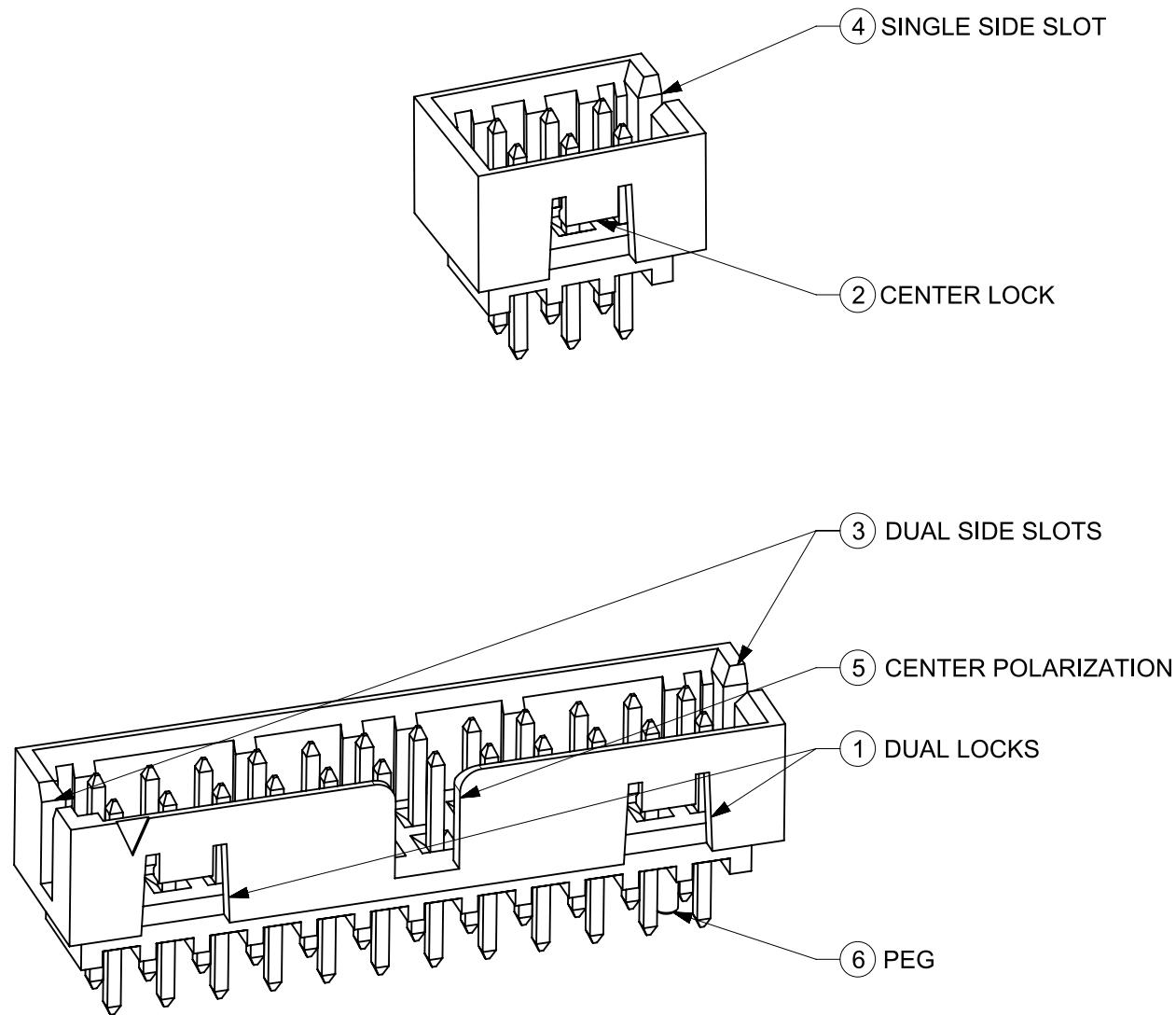


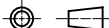
FEATURES SELECTION GUIDE



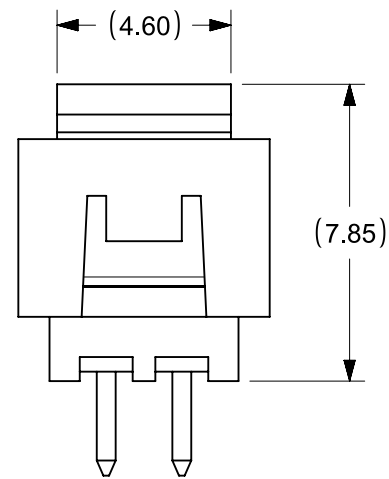
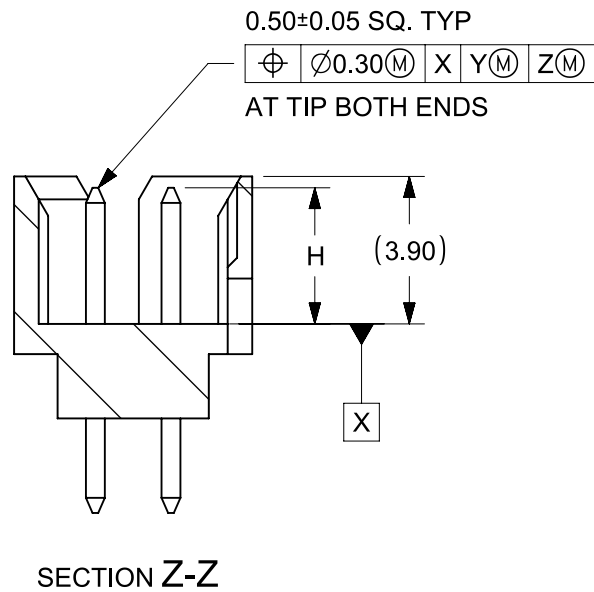
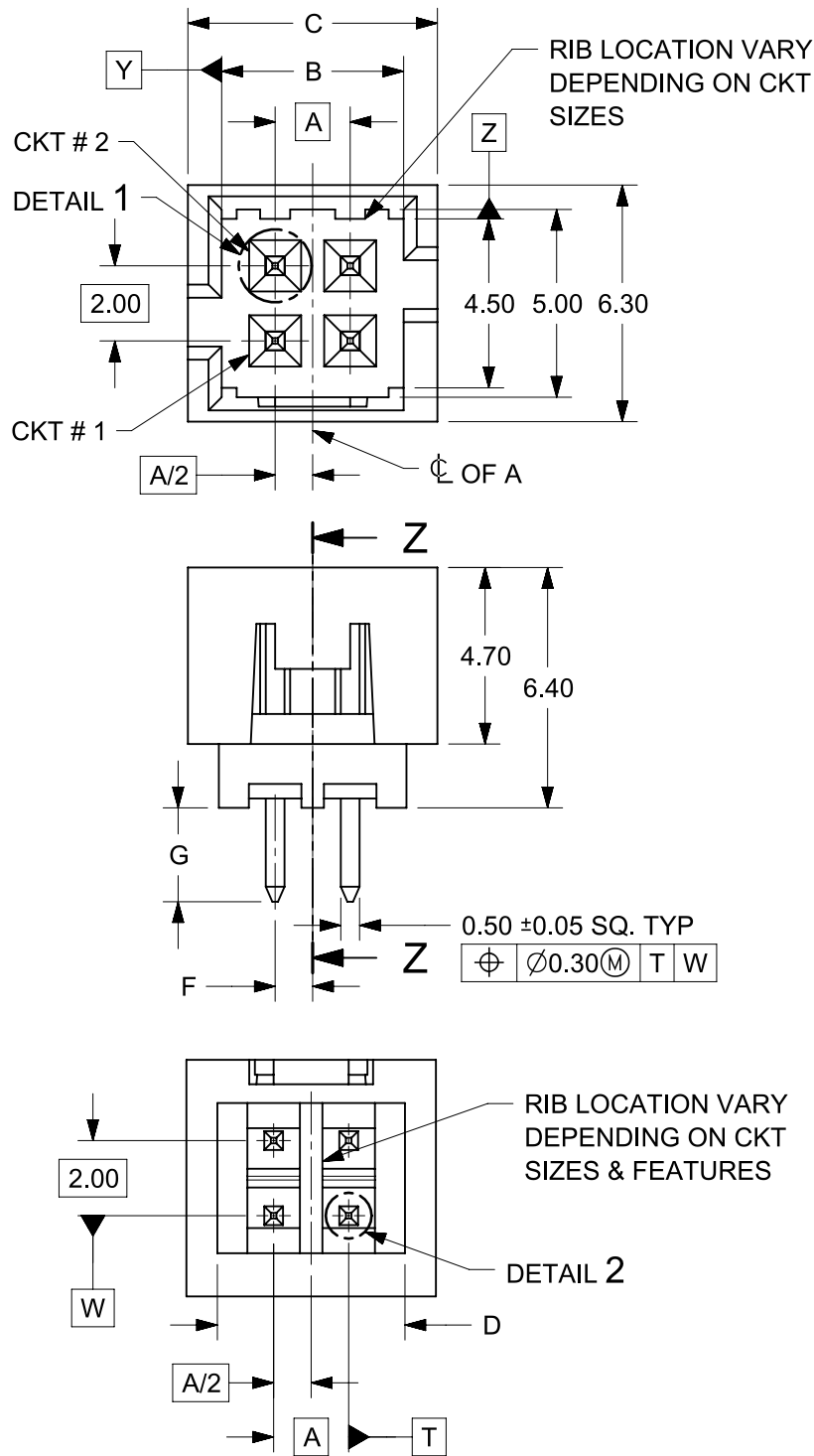
PACKAGING SPECIFICATION TABLE

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

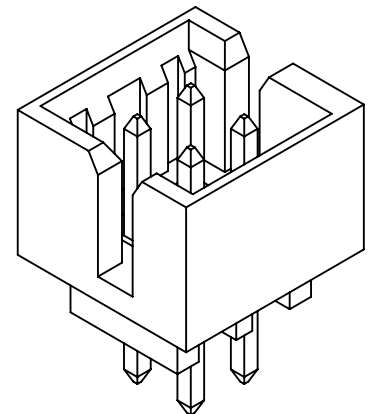
CIRCUIT SIZE		FEATURES						
		FRICTION LOCKS		SIDE SLOTS		⑤ CENTER POLARIZATION	⑥ PEG	SHEET NO
		① DUAL	② CENTER	③ DUAL	④ SINGLE			
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3	
	N.A	YES	YES	N.A	N.A	N.A		
	N.A	YES	N.A	YES	N.A	N.A		
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5	
	N.A	N.A	YES	N.A	N.A	YES		
	N.A	YES	YES	N.A	N.A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

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: Adding New Part Numbers		molex				
mm		NTS								
GENERAL TOLERANCES (UNLESS SPECIFIED)				MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER						
	MM	INCH								
4 PLACES	± 0	± 0								
3 PLACES	± 0	± 0								
2 PLACES	± 0.2	± 0								
1 PLACE	± 0	± 0		PRODUCT CUSTOMER DRAWING						
0 PLACES	± 0	± 0								
ANGULAR TOL		± 3°		DOCUMENT NUMBER		DOC TYPE		DOC PART	REVISION	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER
				A3-SIZE		87831		SEE TABLE		GENERAL MARKET
				2015/04/15		2015/06/29		SD-87831-0001		PSD
				2015/04/15		2015/06/29		001		A25
				2015/04/15		2015/06/29		1 OF 14		

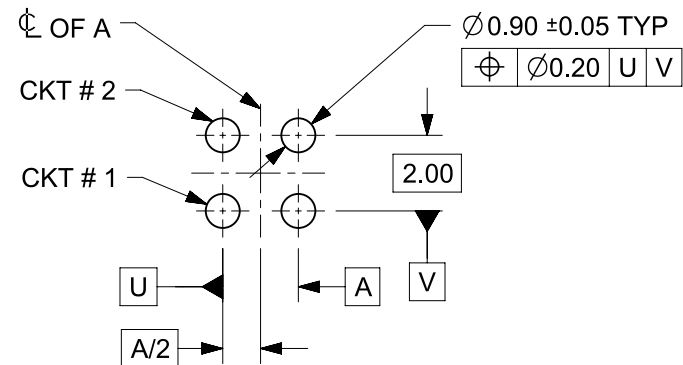
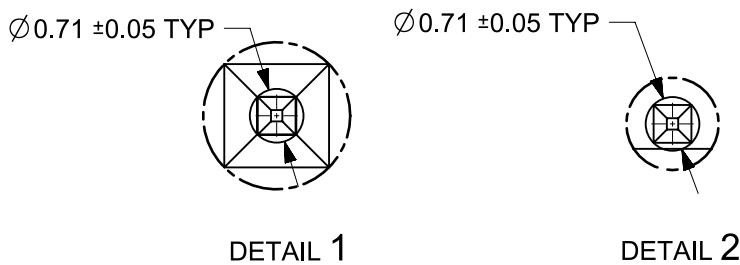
4 CIRCUITS



VIEW FOR
HEADER WITH CAP

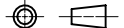


VIEW FOR HEADER
WITH ONLY DUAL SLOTS



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: 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: Adding New Part Numbers				molex MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER PRODUCT CUSTOMER DRAWING	
mm		NTS							
GENERAL TOLERANCES (UNLESS SPECIFIED)									
	MM	INCH							
4 PLACES	± 0	± 0							
3 PLACES	± 0	± 0							
2 PLACES	± 0.2	± 0							
1 PLACE	± 0	± 0							
0 PLACES	± 0	± 0							
ANGULAR TOL		± 3 °							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES	
						A3-SIZE		87831	
						MATERIAL NUMBER		CUSTOMER	
						SEE TABLE		GENERAL MARKET	
								SHEET NUMBER	
								2 OF 14	
DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
SD-87831-0001		PSD		001		A25			

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													3.60 ^{+0.15} -0.10	

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.

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DIMENSION UNITS

mm

SCALE

NTS

GENERAL TOLERANCES
(UNLESS SPECIFIED)

MM

INCH

4 PLACES

± 0

± 0

3 PLACES

± 0

± 0

2 PLACES

± 0.2

± 0

1 PLACE

± 0

± 0

0 PLACES

± 0

± 0

ANGULAR TOL

± 3 °

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

87831

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

SHEET NUMBER

3 OF 14

CURRENT REV DESC: Adding New Part Numbers

EC NO: CO-000042098

DRWN: Meghraj Boodagatti

CHK'D: Meghraj Boodagatti

APPR: Saravanakumar Murugesan

22-Apr-2026

08-Jun-2026

08-Jun-2026

INITIAL REVISION:

DRWN: GMENARLY

APPR: KHLIM

2015/04/15

2015/06/29

DOCUMENT NUMBER

SD-87831-0001

DOC TYPE

PSD

DOC PART

001

REVISION

A25

PRODUCT CUSTOMER DRAWING

DOCUMENT STATUS

Production

RELEASE DATE

08-Jun-2026

04:36:51

9

8

7

6

5

4

3

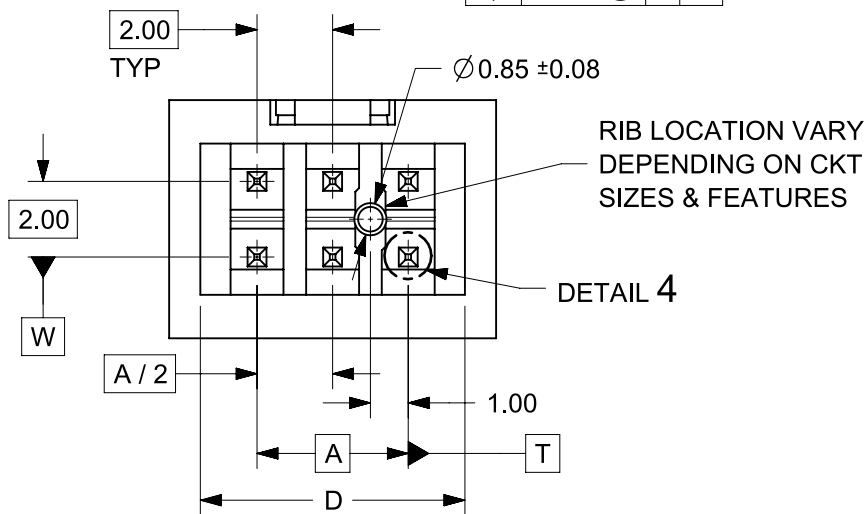
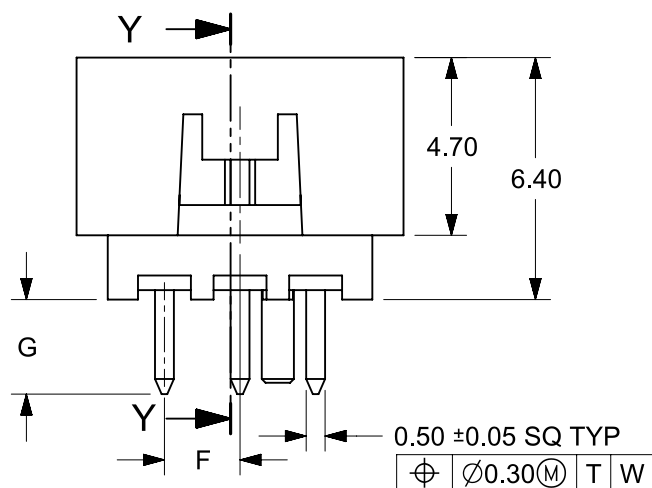
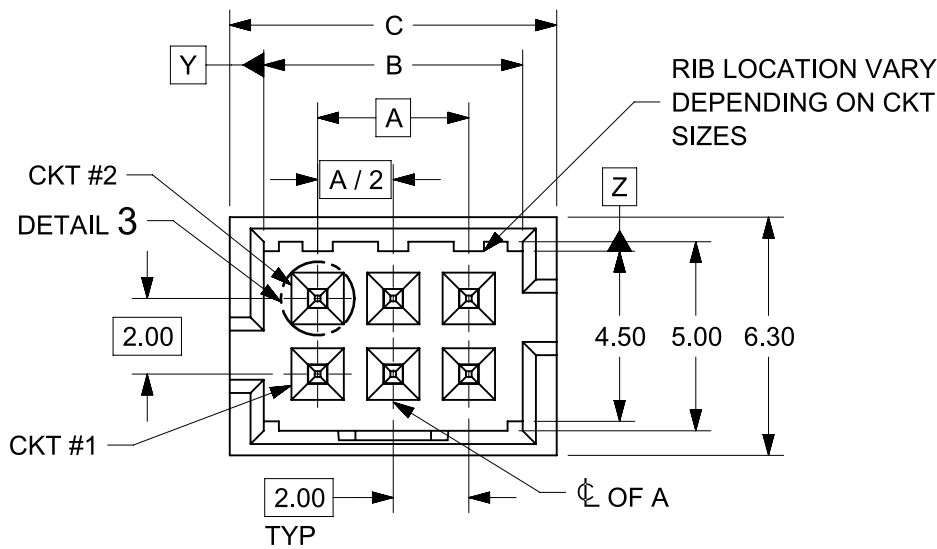
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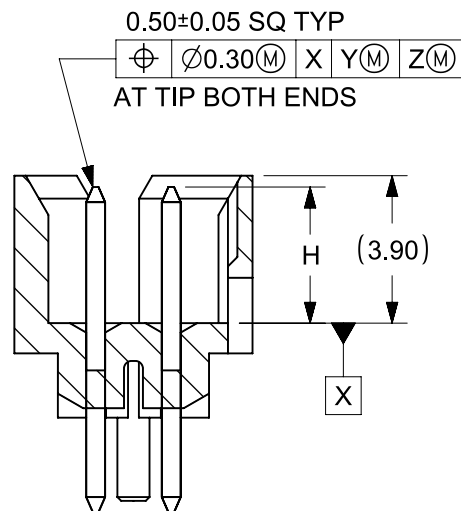
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REVISION: E1

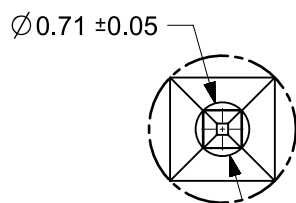
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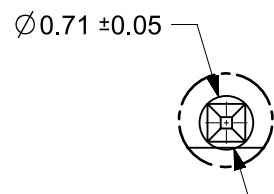
6 CIRCUITS



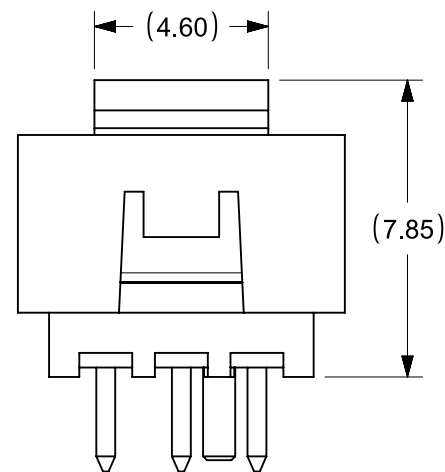
SECTION Y-Y



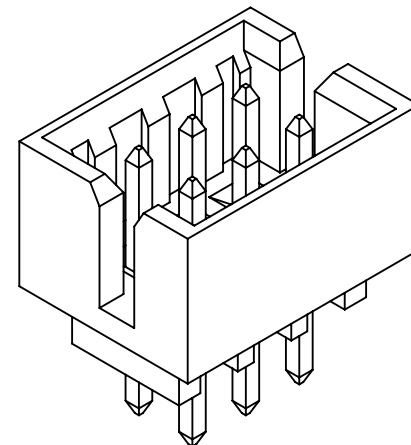
DETAIL 3



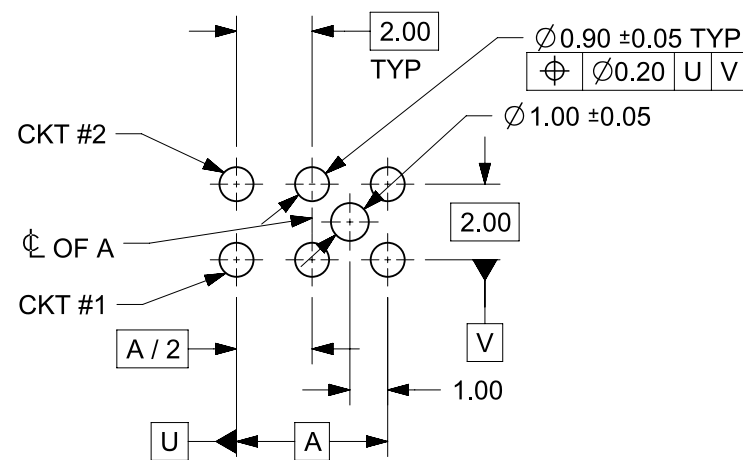
DETAIL 4



VIEW FOR
HEADER WITH CAP



VIEW FOR HEADER WITH
ONLY DUAL SLOTS



RECOMMENDED PCB LAYOUT

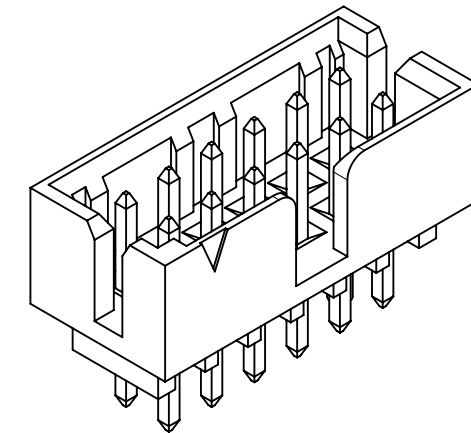
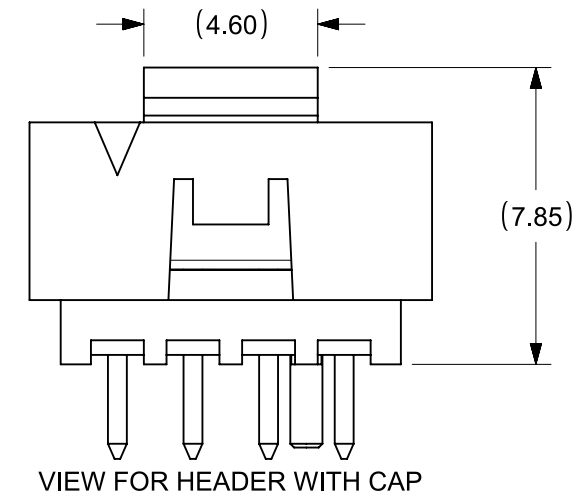
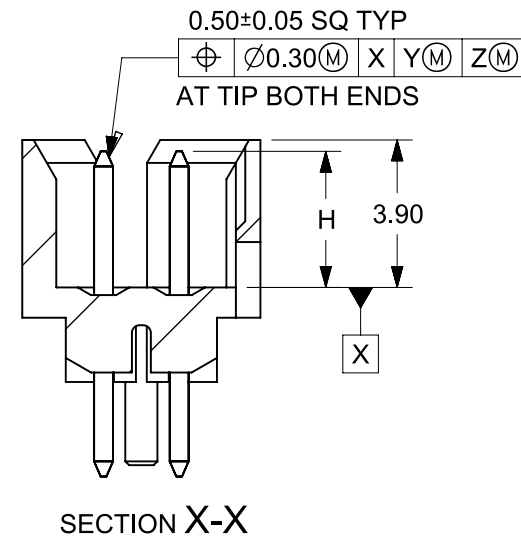
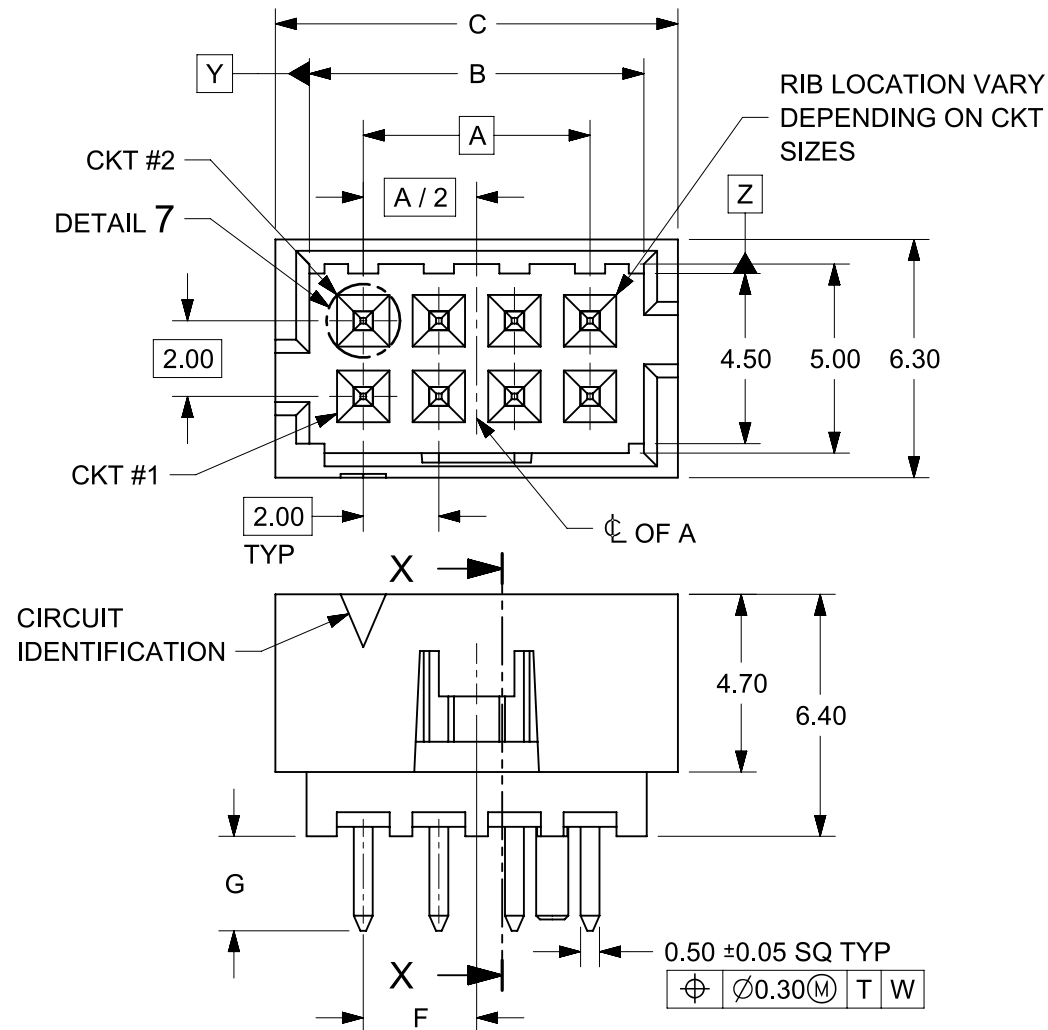
NOTES:

- 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)

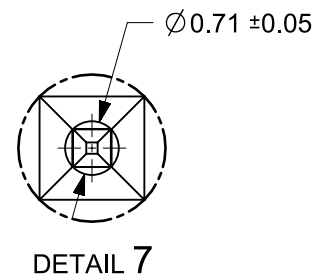
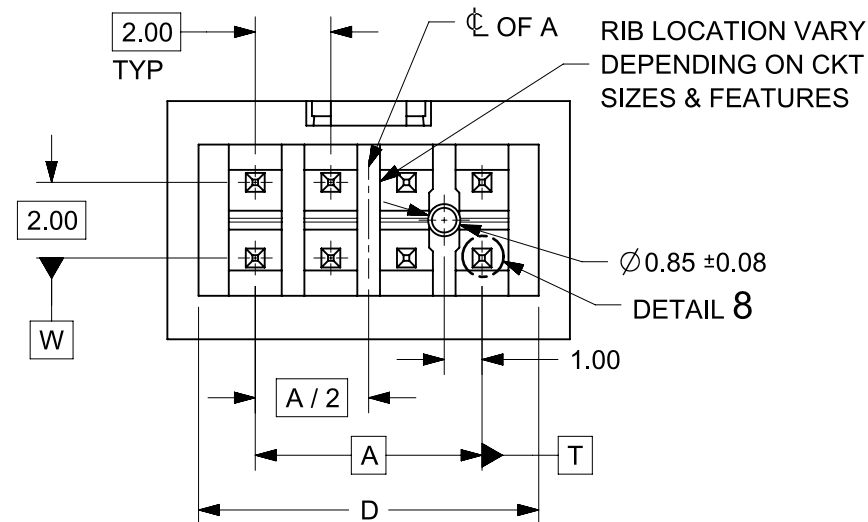
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																													
DIMENSION UNITS		SCALE		CURRENT REV DESC: Adding New Part Numbers				molex MILLGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER PRODUCT CUSTOMER DRAWING <table><tr><th colspan="2">DOCUMENT NUMBER</th><th>DOC TYPE</th><th>DOC PART</th><th>REVISION</th></tr><tr><td colspan="2">SD-87831-0001</td><td>PSD</td><td>001</td><td>A25</td></tr><tr><th colspan="2">MATERIAL NUMBER</th><th colspan="2">CUSTOMER</th><th>SHEET NUMBER</th></tr><tr><td colspan="2">SEE TABLE</td><td colspan="2">GENERAL MARKET</td><td>4 OF 14</td></tr></table>		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	SD-87831-0001		PSD	001	A25	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	SEE TABLE		GENERAL MARKET		4 OF 14
DOCUMENT NUMBER		DOC TYPE	DOC PART							REVISION																			
SD-87831-0001		PSD	001	A25																									
MATERIAL NUMBER		CUSTOMER		SHEET NUMBER																									
SEE TABLE		GENERAL MARKET		4 OF 14																									
mm	NTS																												
GENERAL TOLERANCES (UNLESS SPECIFIED)																													
	MM	INCH																											
4 PLACES	± 0	± 0																											
3 PLACES	± 0	± 0																											
2 PLACES	± 0.2	± 0																											
1 PLACE	± 0	± 0																											
0 PLACES	± 0	± 0																											
ANGULAR TOL ± 3 °																													
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER																					
						A3-SIZE	87831	SEE TABLE																					
EC NO: CO-000042098				DRWN: Meghraj Boodagatti		22-Apr-2026																							
CHK'D: Meghraj Boodagatti				08-Jun-2026																									
APPR: Saravanakumar Murugesan				08-Jun-2026																									
INITIAL REVISION:																													
DRWN: GMENARLY				2015/04/15																									
APPR: KHLIM				2015/06/29																									

10	9	8	7	6	5	4	3	2	1
6 CIRCUITS									
F	E	D	C	B	A				
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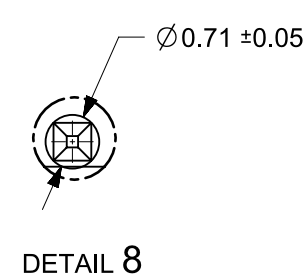
8 TO 12 CIRCUITS



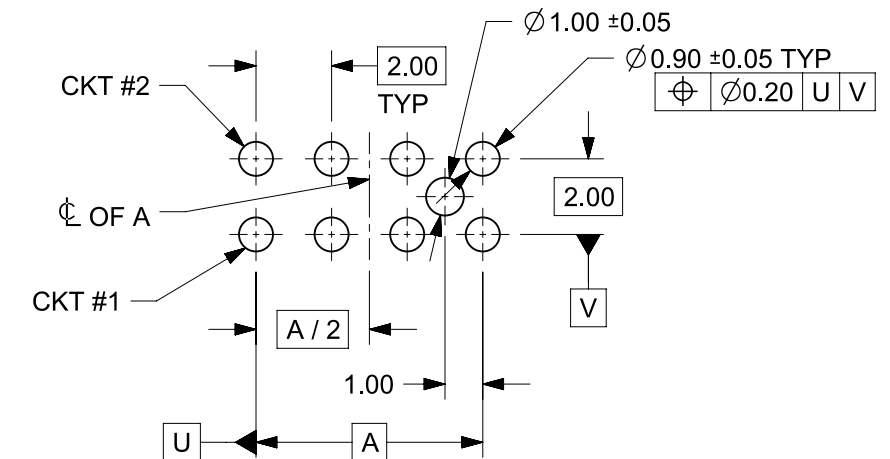
VIEW FOR HEADER WITH CENTER
POLARIZATION AND DUAL SIDE SLOTS



DETAIL 7

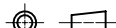


DETAIL 8



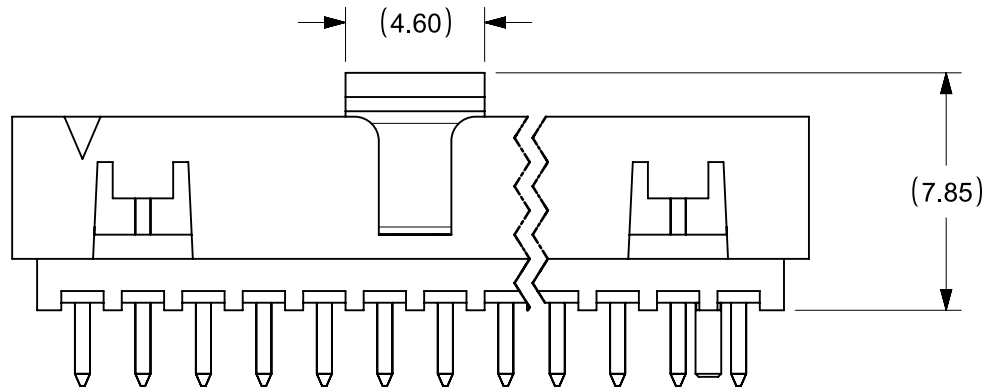
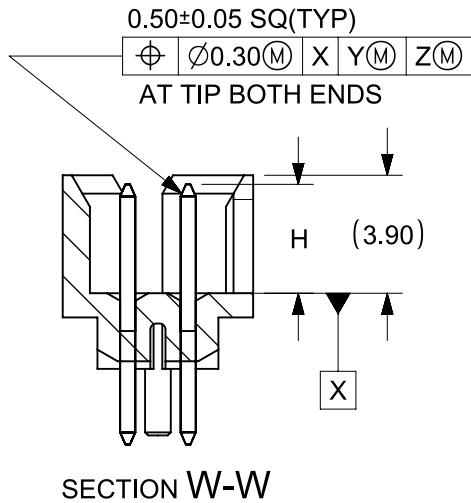
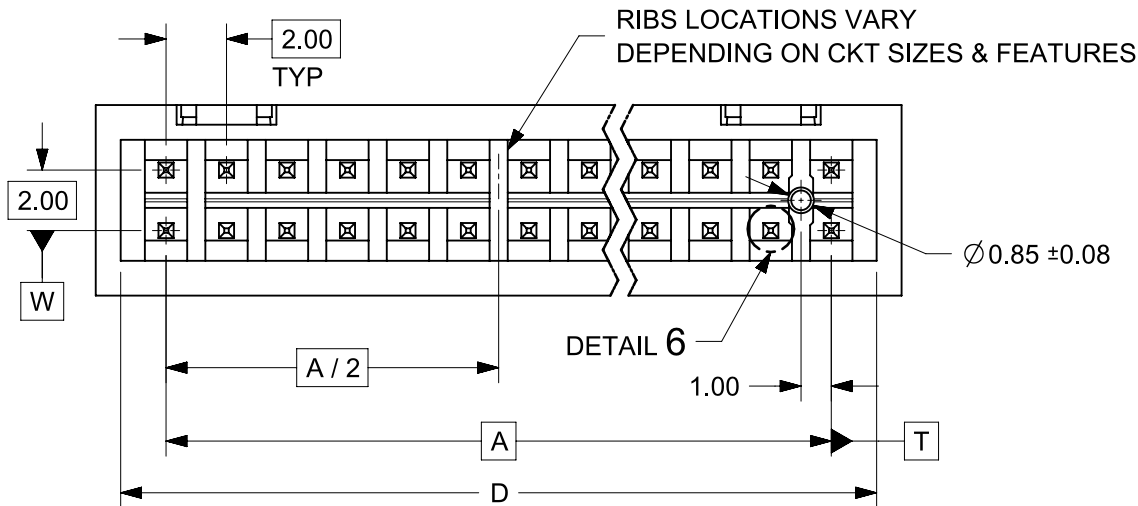
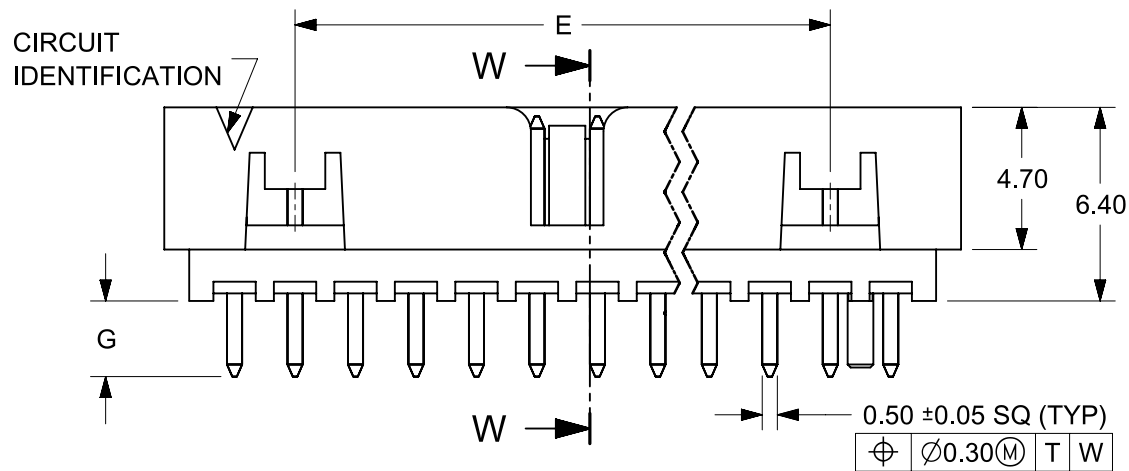
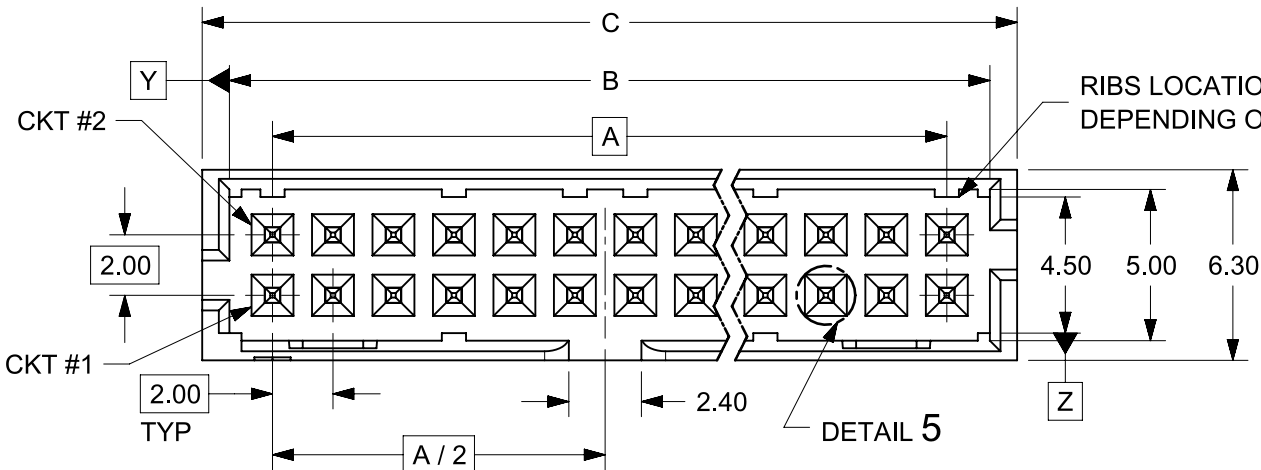
RECOMMENDED PCB LAYOUT

- 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)

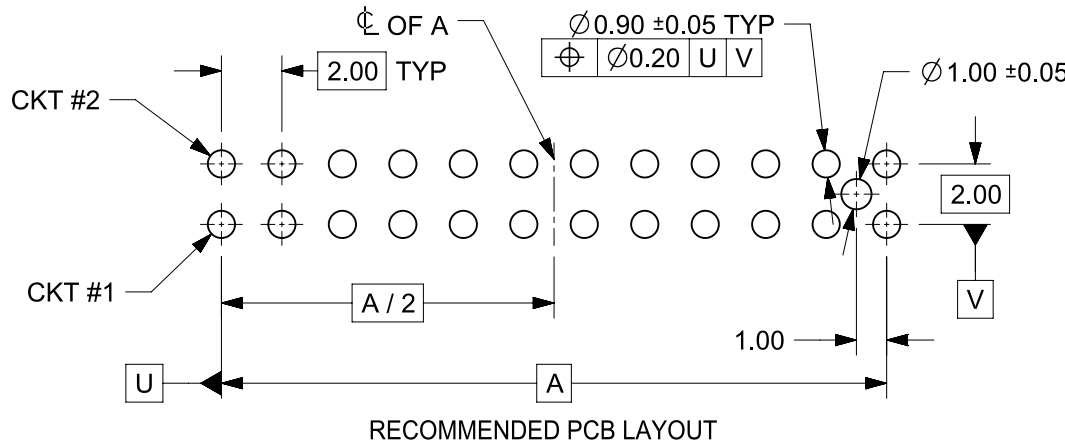
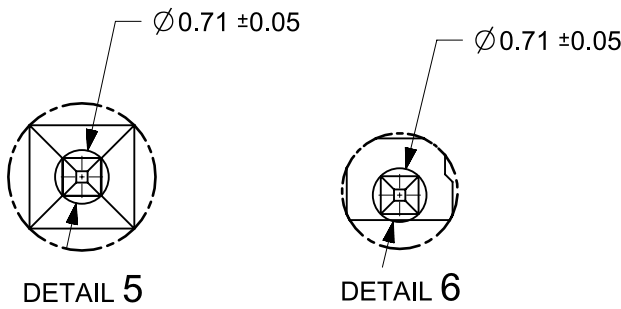
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
DIMENSION UNITS		SCALE		CURRENT REV DESC: Adding New Part Numbers			molex				
mm		NTS									
GENERAL TOLERANCES (UNLESS SPECIFIED)							MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER				
	MM	INCH									
4 PLACES	± 0	± 0		EC NO: CO-000042098 DRWN: Meghraj Boodagatti 22-Apr-2026 CHK'D: Meghraj Boodagatti 08-Jun-2026 APPR: Saravanakumar Murugesan 08-Jun-2026			PRODUCT CUSTOMER DRAWING				
3 PLACES	± 0	± 0									
2 PLACES	± 0.2	± 0									
1 PLACE	± 0	± 0									
0 PLACES	± 0	± 0		INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
ANGULAR TOL ± 3°							SD-87831-0001		PSD	001	A25
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 		DRAWING A3-SIZE	SERIES 87831	MATERIAL NUMBER SEE TABLE	CUSTOMER GENERAL MARKET	SHEET NUMBER 6 OF 14	

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		#####	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	87831-1030	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	N.A	N.A	YES	N.A	YES	YES									2.50	
	87831-1029	N.A	87831-5557		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																
	87831-1042	N.A	87831-5553		3	N.A	YES	YES	N.A	N.A	N.A							4.00		2.50	
	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	YES									2.50	
	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		3.60±0.20
	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							5.00	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.																				
DOCUMENT STATUS		Production	RELEASE DATE	08-Jun-2026	04:36:51					6	5	4	3	2	1						
FORMAT: Molex-aga-master-ib-prod-A3		9	8	7	6	5	4	3	2	1											
REVISION: E1		9	8	7	6	5	4	3	2	1											
DATE: 2021/05/01		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		CURRENT REV DESC: Adding New Part Numbers		molex			
DIMENSION UNITS		SCALE		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER			
mm		NTS		PRODUCT CUSTOMER DRAWING			
GENERAL TOLERANCES (UNLESS SPECIFIED)		MM		DOCUMENT NUMBER			
		INCH		SD-87831-0001			
4 PLACES	± 0	± 0		EC NO: CO-000042098	22-Apr-2026	DOC TYPE	DOC PART
3 PLACES	± 0	± 0		DRWN: Meghraj Boodagatti	08-Jun-2026	PSD	001
2 PLACES	± 0.2	± 0		CHK'D: Meghraj Boodagatti	08-Jun-2026		A25
1 PLACE	± 0	± 0		APPR: Saravanakumar Murugesan	08-Jun-2026		
0 PLACES	± 0	± 0		INITIAL REVISION:			
ANGULAR TOL		± 3°		DRWN: GMENARLY	2015/04/15	MATERIAL NUMBER	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		APPR: KHLIM	2015/06/29	CUSTOMER	
		A3-SIZE		SERIES	87831	SHEET NUMBER	
				SEE TABLE		GENERAL MARKET	
						9 OF 14	

10	9	8	7	6	5	4	3	2	1																		
14 TO 20 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								
14	87831-1419	N.A	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	12.00	14.85	16.65	15.00	8.00	N.A	2.50	3.60±0.20								
	87831-1420	87831-1430	87831-5554	N.A	2																						
	87831-1421	87831-5530	87831-5560	N.A	3																						
	87831-1436	N.A	N.A	N.A	4																						
	87831-1428	N.A	87831-5564	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50									
	87831-1429	N.A	87831-5563	N.A	3													3.50									
	87831-1435	N.A	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50									
	87831-1410	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A							3.50									
87831-1411	N.A	N.A	N.A	3																							
16	87831-1619	N.A	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								
	87831-1620	N.A	N.A	N.A	2																						
	87831-1621	N.A	N.A	N.A	3																						
	87831-1636	N.A	N.A	N.A	4																						
	87831-1628	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50									
	87831-1629	N.A	87831-5559	N.A	3													3.50									
	87831-1635	N.A	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES																
18	87831-1819	N.A	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								
	87831-1820	N.A	87831-5566	87831-1830	2																						
	87831-1821	N.A	N.A	N.A	3																						
	87831-1836	N.A	N.A	N.A	4																						
	87831-1828	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50									
	87831-1829	N.A	N.A	N.A	3																						
20	87831-2019	N.A	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								
	87831-2020	N.A	N.A	87831-2050	2																						
	87831-2021	N.A	N.A	N.A	3																						
	87831-2036	N.A	N.A	N.A	4																						
	87831-2028	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50									
	87831-2029	N.A	N.A	N.A	3													3.50									
	87831-2035	N.A	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50									
	87831-2010	N.A	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A							3.50									
	87831-2011	N.A	87831-2041	87831-2051	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										Production	RELEASE DATE		08-Jun-2026	04:36:51													
9										8		7		6		5		4		3		2		1			
FORMAT: Molex-4pin-master-4pin-prod-A3 REVISION: E1 DATE: 2021/05/01										9		8		7		6		5		4		3		2		1	

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DIMENSION UNITS

mm

SCALE

NTS

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: Adding New Part Numbers

EC NO: CO-000042098

DRWN: Meghraj Boodagatti

CHK'D: Meghraj Boodagatti

APPR: Saravanakumar Murugesan

22-Apr-2026

08-Jun-2026

08-Jun-2026

INITIAL REVISION:

DRWN: GMENARLY

APPR: KHLIM

2015/04/15

2015/06/29

mo

lex

MILLIGRID

2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

SD-87831-0001

DOC TYPE

PSD

DOC PART

001

REVISION

A25

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

SHEET NUMBER

10 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	N.A	YES	N.A							3.50										
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	YES	N.A	YES	N.A							3.50										
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	YES	N.A	YES	N.A	YES	YES							3.50										
	87831-3037	N.A	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							1.60										
	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										Production	RELEASE DATE	08-Jun-2026	04:36:51															
FORMAT: Mxl-Apgs-master-ib-prod-A3										9	8	7	6	5	4	3	2	1										
REVISION: E1																												
DATE: 2021/05/01																												

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
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	
		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.																					
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		Production	RELEASE DATE		08-Jun-2026	04:36:51		7		6		5		4		3		2		1	
FORMAT: Mlx-Apgs-master-ib-prod-A3		9		8		7		6		5		4		3		2		1			
REVISION: E1																					
DATE: 2021/05/01																					
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: Adding New Part Numbers								molex									
mm		NTS																			
GENERAL TOLERANCES (UNLESS SPECIFIED)																					
		MM		INCH																	
4 PLACES		± 0		± 0																	
3 PLACES		± 0		± 0																	
2 PLACES		± 0.2		± 0																	
1 PLACE		± 0		± 0																	
0 PLACES		± 0		± 0																	
ANGULAR TOL		± 3 °																			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER							
						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	YES	N.A	YES	N.A	YES	YES							3.50																															
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	YES	N.A	YES	N.A	YES	YES							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 Production RELEASE DATE 08-Jun-2026 04:36:51																																																	
9										8					7					6					5					4					3					2					1				

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DIMENSION UNITS

mm

SCALE

NTS

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	MM	INCH
4 PLACES	± 0	± 0
3 PLACES	± 0	± 0
2 PLACES	± 0.2	± 0
1 PLACE	± 0	± 0
0 PLACES	± 0	± 0
ANGULAR TOL ± 3 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

CURRENT REV DESC: Adding New Part Numbers

EC NO: CO-000042098

DRWN: Meghraj Boodagatti 22-Apr-2026

CHK'D: Meghraj Boodagatti 08-Jun-2026

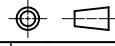
APPR: Saravanakumar Murugesan 08-Jun-2026

INITIAL REVISION:

DRWN: GMENARLY 2015/04/15

APPR: KHLIM 2015/06/29

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS



DRAWING
A3-SIZE

SERIES
87831

DOCUMENT NUMBER

SD-87831-0001

DOC TYPE

PSD

DOC PART

001

REVISION

A25

PRODUCT CUSTOMER DRAWING

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

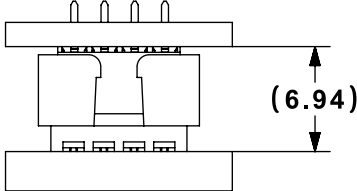
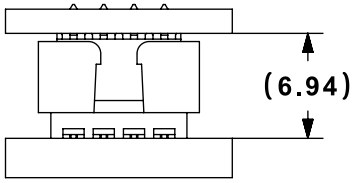
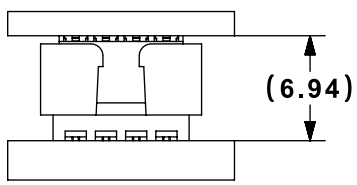
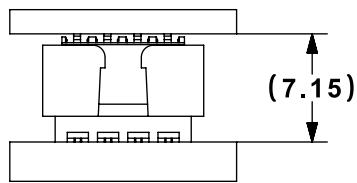
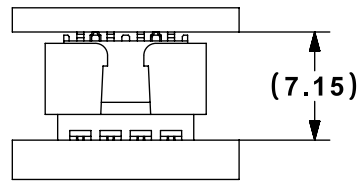
SHEET NUMBER

13 OF 14

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		CURRENT REV DESC: Adding New Part Numbers				molex				
mm		NTS										
GENERAL TOLERANCES (UNLESS SPECIFIED)								MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER				
		MM	INCH	EC NO: CO-000042098 DRWN: Meghraj Boodagatti 22-Apr-2026 CHK'D: Meghraj Boodagatti 08-Jun-2026 APPR: Saravanakumar Murugesan 08-Jun-2026 INITIAL REVISION: DRWN: DRWN BY XXXX/XX/XX APPR: APPR BY XXXX/XX/XX				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
4 PLACES	± 0	± 0						SD-87831-0001		PSD	001	A25
3 PLACES	± 0	± 0										
2 PLACES	± 0.2	± 0										
1 PLACE	± 0	± 0										
0 PLACES	± 0	± 0						SHEET NUMBER		14 OF 14		
ANGULAR TOL ± 3°				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						A3-SIZE	87831			GENERAL MARKET		