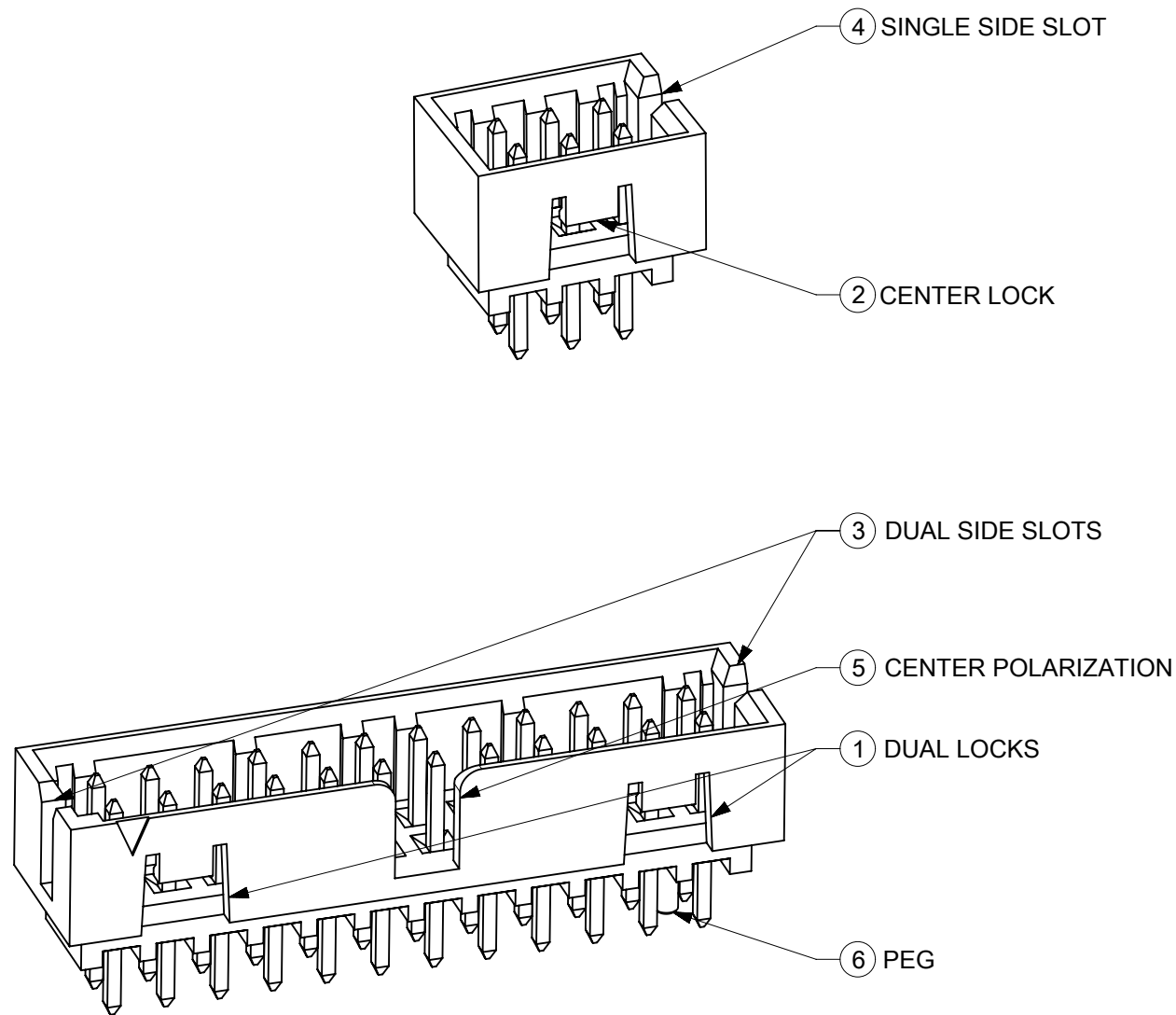


FEATURES SELECTION GUIDE



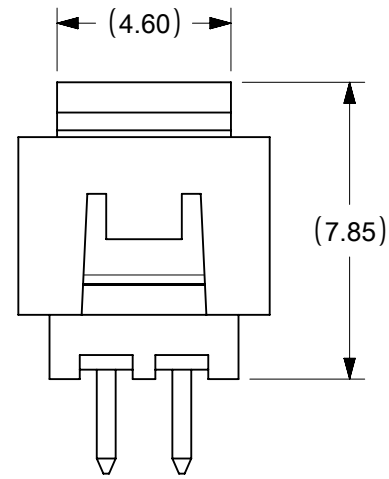
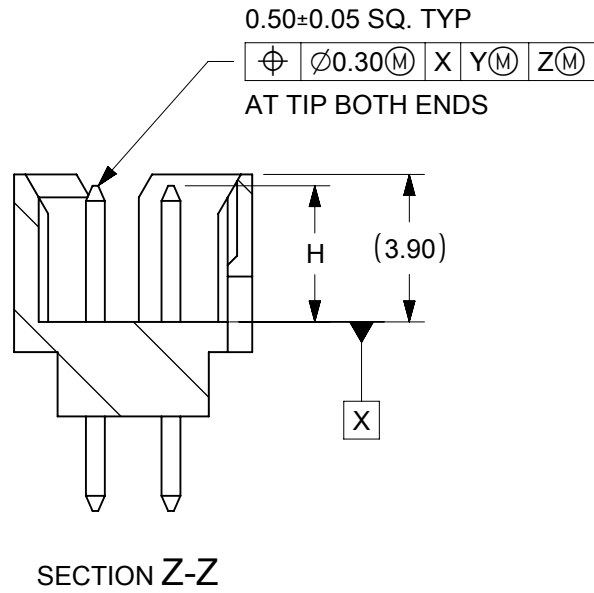
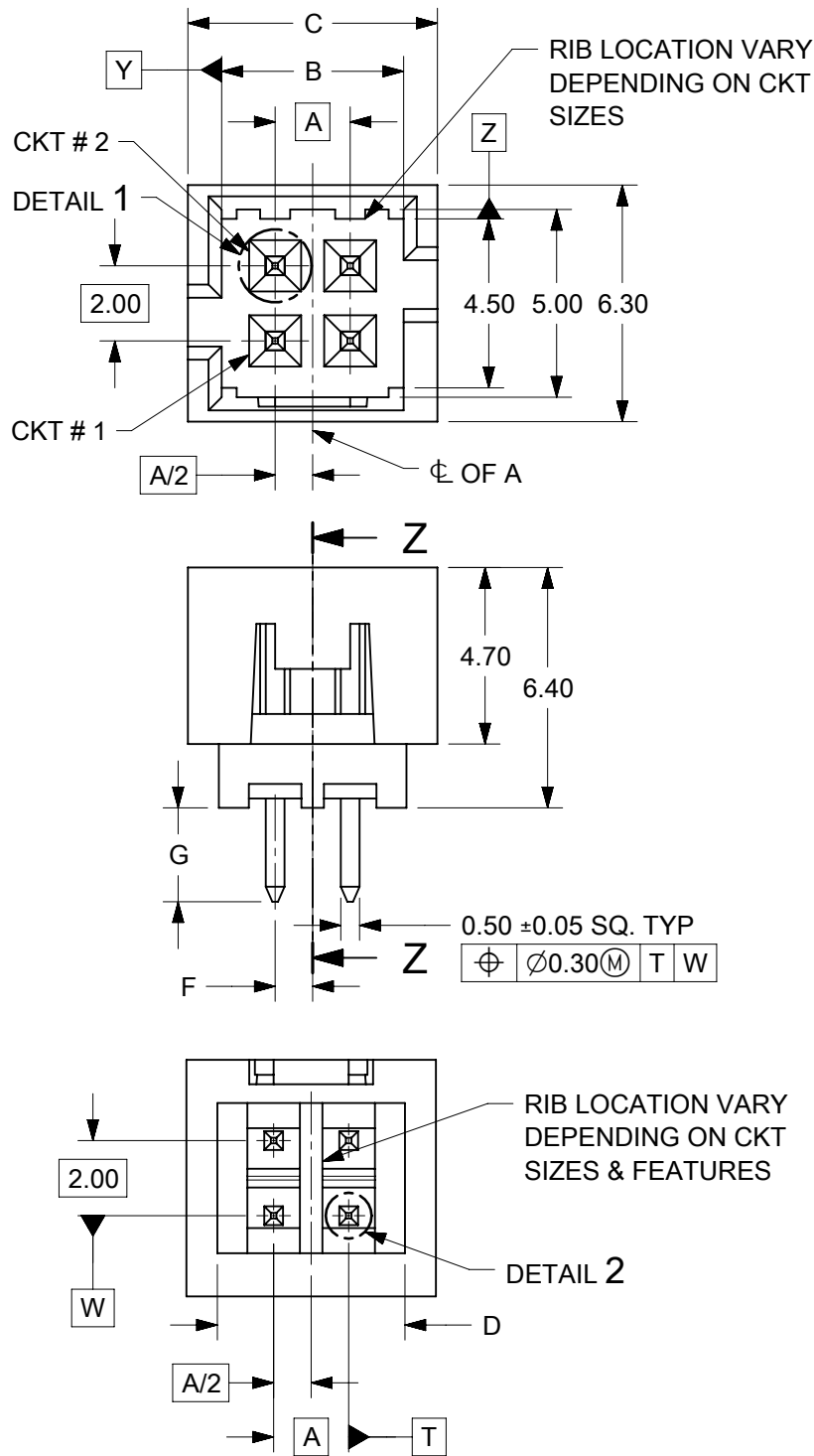
PACKAGING SPECIFICATION TABLE

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	

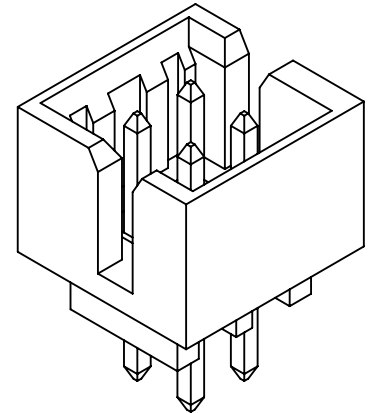
FEATURES							
CIRCUIT SIZE	FRICTION LOCKS		SIDE SLOTS		⑤ CENTER POLARIZATION	⑥ PEG	SHEET NO
	① DUAL	② CENTER	③ DUAL	④ SINGLE			
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3
	N.A	YES	YES	N.A	N.A	N.A	
	N.A	YES	N.A	YES	N.A	N.A	
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5
	N.A	N.A	YES	N.A	N.A	YES	
	N.A	YES	YES	N.A	N.A	N.A	
	N.A	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)															
	MM	INCH						MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER							
4 PLACES	±		±												
3 PLACES	±			EC NO: 761863				2023/08/14 2023/09/11 2023/09/11							
2 PLACES	±	0.2	±	DRWN: SUAIFR											
1 PLACE	±		±	CHK'D: GGA											
0 PLACES	±			APPR: GGA				PRODUCT CUSTOMER DRAWING							
INITIAL REVISION:				DOCUMENT NUMBER SD-87831-0001											
DRWN: GMENARLY													DOC TYPE PSD		
APPR: KHLIM									DOC PART 001						
ANGULAR TOL ± 3.0 °				REVISION A24											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER
				A3-SIZE		87831		SEE TABLE		GENERAL MARKET		1 OF 14			

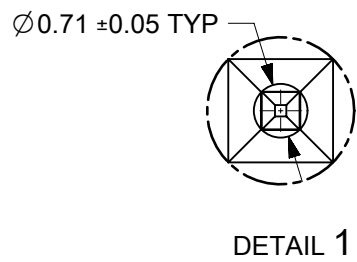
4 CIRCUITS



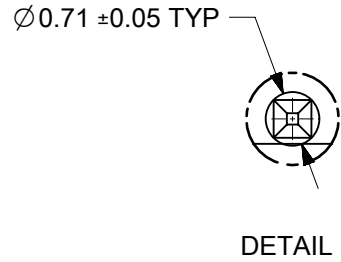
VIEW FOR
HEADER WITH CAP



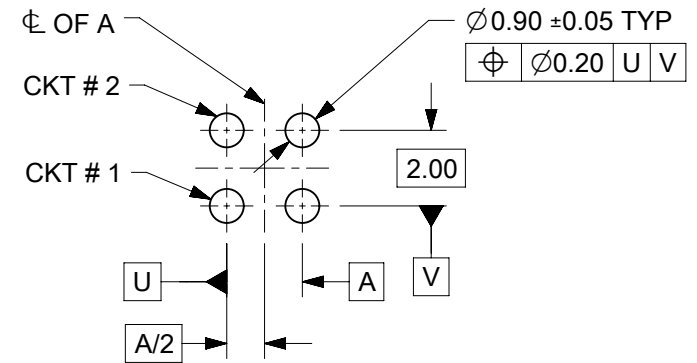
VIEW FOR HEADER
WITH ONLY DUAL SLOTS



DETAIL 1



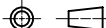
DETAIL 2



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															2.50
	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								2.50		
	87831-6142	N.A	N.A	3															3.60 ^{+0.15} -0.10
	87831-0443	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A									
	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.

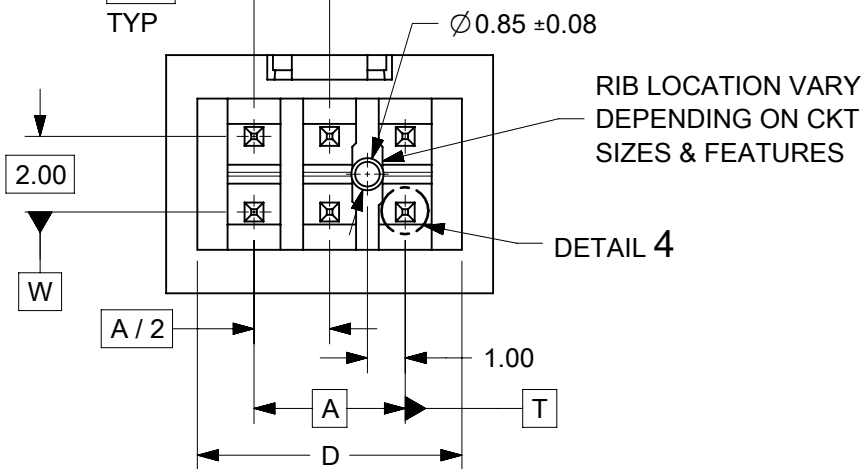
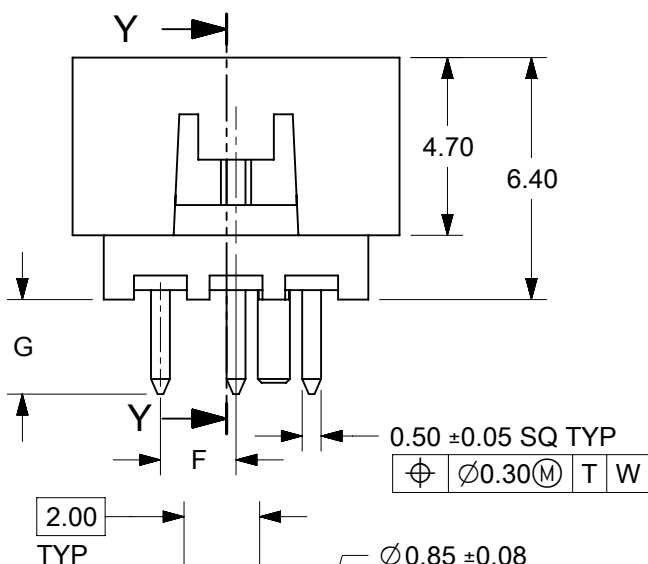
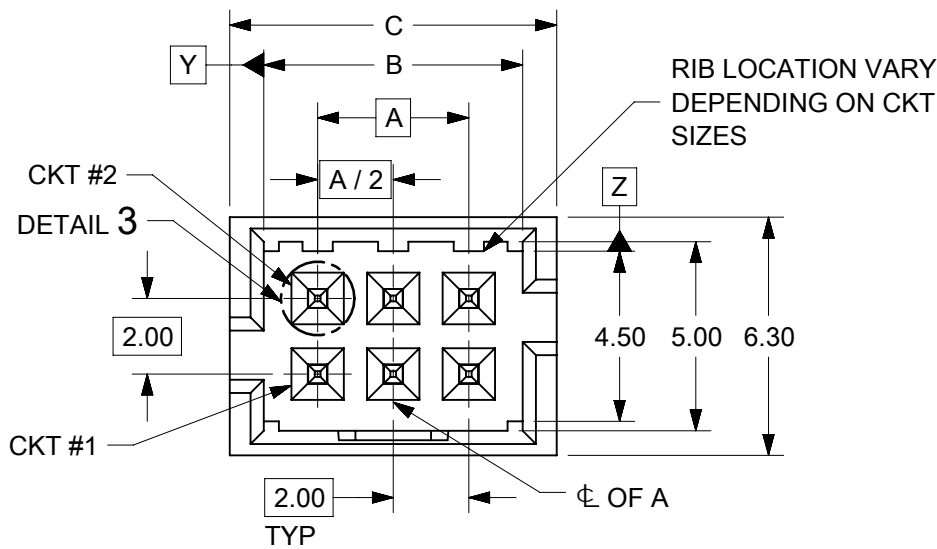
3 - 0.76µm/30µin GOLD IN CONTACT AREA AND
1.88µm/75µin MIN. MATTETIN IN SOLDER TAIL AREA OVER
1.27µm/50µin MIN. NICKEL OVERALL.

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

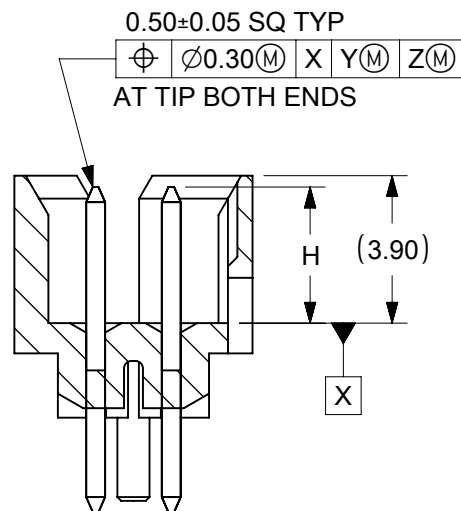
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581.				molex							
mm		NTS													
GENERAL TOLERANCES (UNLESS SPECIFIED)															
	MM	INCH													
4 PLACES	±		±	EC NO: 761863 DRWN: SUAIFR CHK'D: GGA APPR: GGA				2023/08/14 2023/09/11 2023/09/11							
3 PLACES	±		±												
2 PLACES	±	0.2	±												
1 PLACE	±		±	INITIAL REVISION: DRWN: GMENARLY APPR: KHLIM				2015/04/15 2015/06/29							
0 PLACES	±		±												
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		3 OF 14	

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

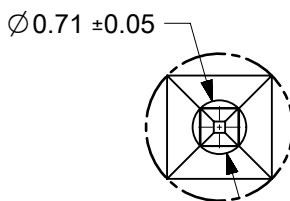
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REVISION: E1
DATE: 20210501



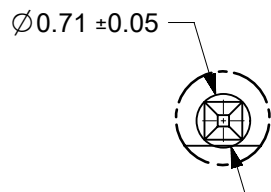
6 CIRCUITS



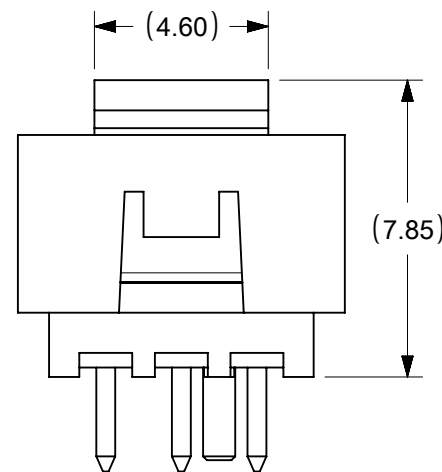
SECTION Y-Y



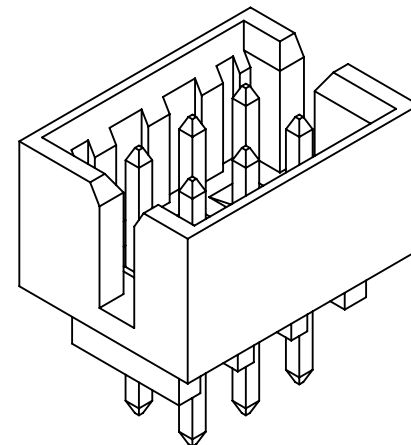
DETAIL 3



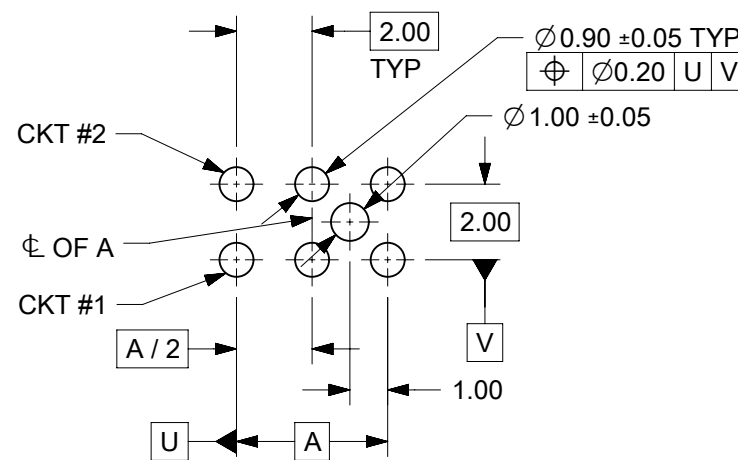
DETAIL 4



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 MILLGRID 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 INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29								
	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	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER		
						A3-SIZE	87831	SEE TABLE	GENERAL MARKET	4 OF 14		
							DOCUMENT NUMBER SD-87831-0001			DOC TYPE PSD	DOC PART 001	REVISION A24

molex

MILLIGRID
2MM PITCH, THROUGH HOLE VERTICAL SHROUDED
HEADER

PRODUCT CUSTOMER DRAWING

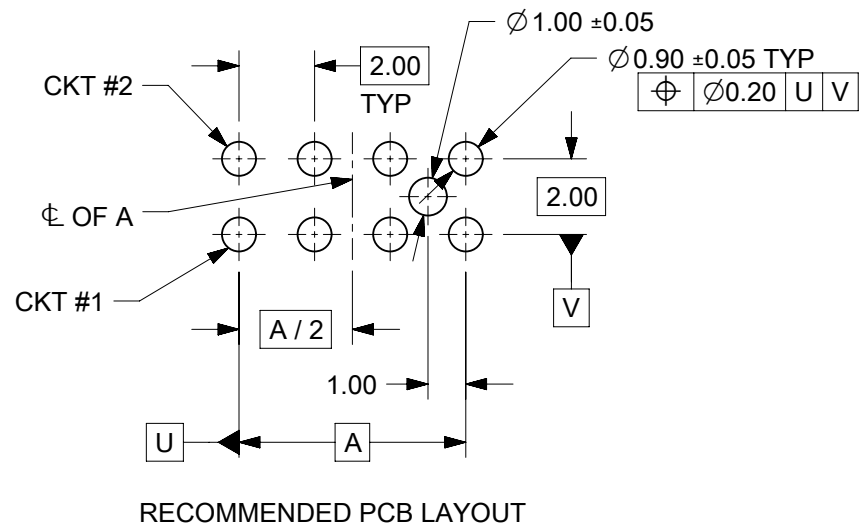
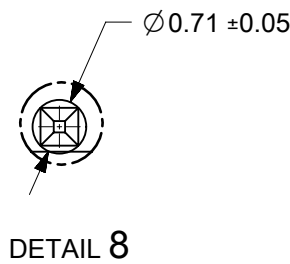
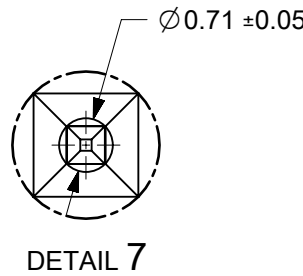
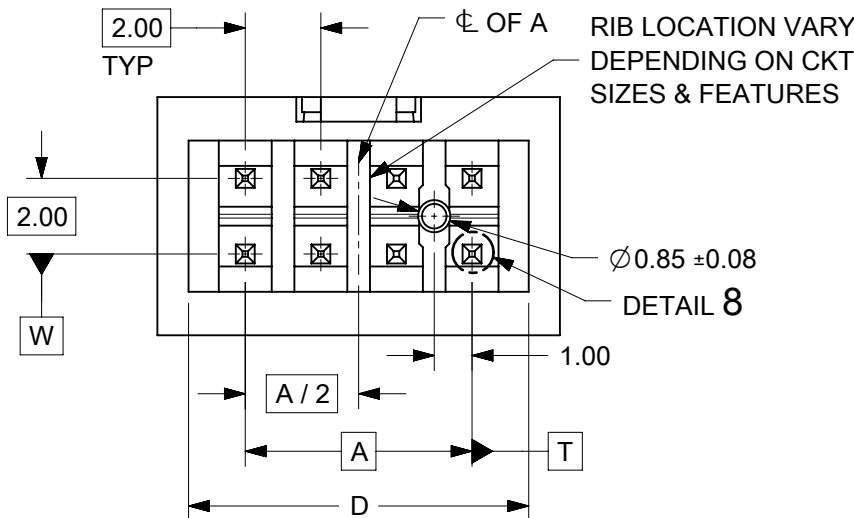
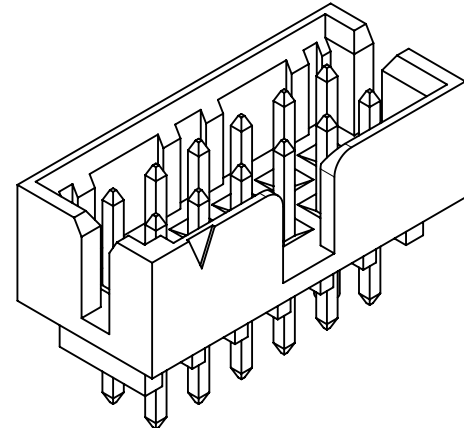
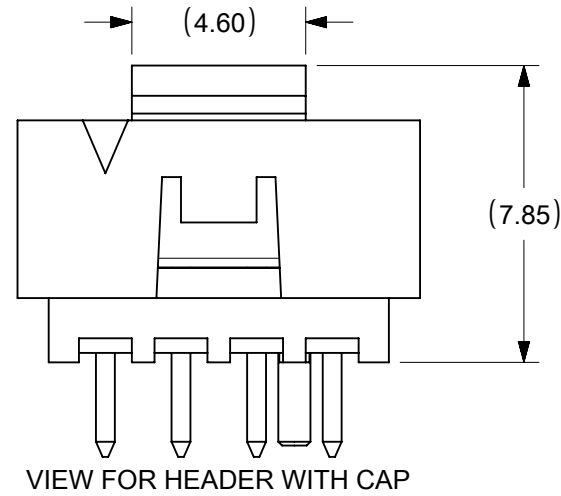
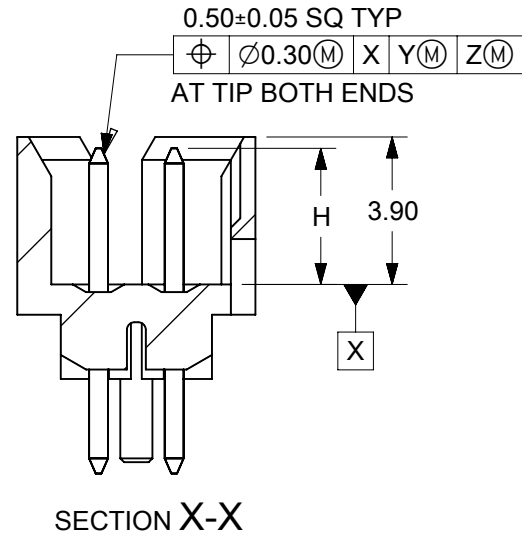
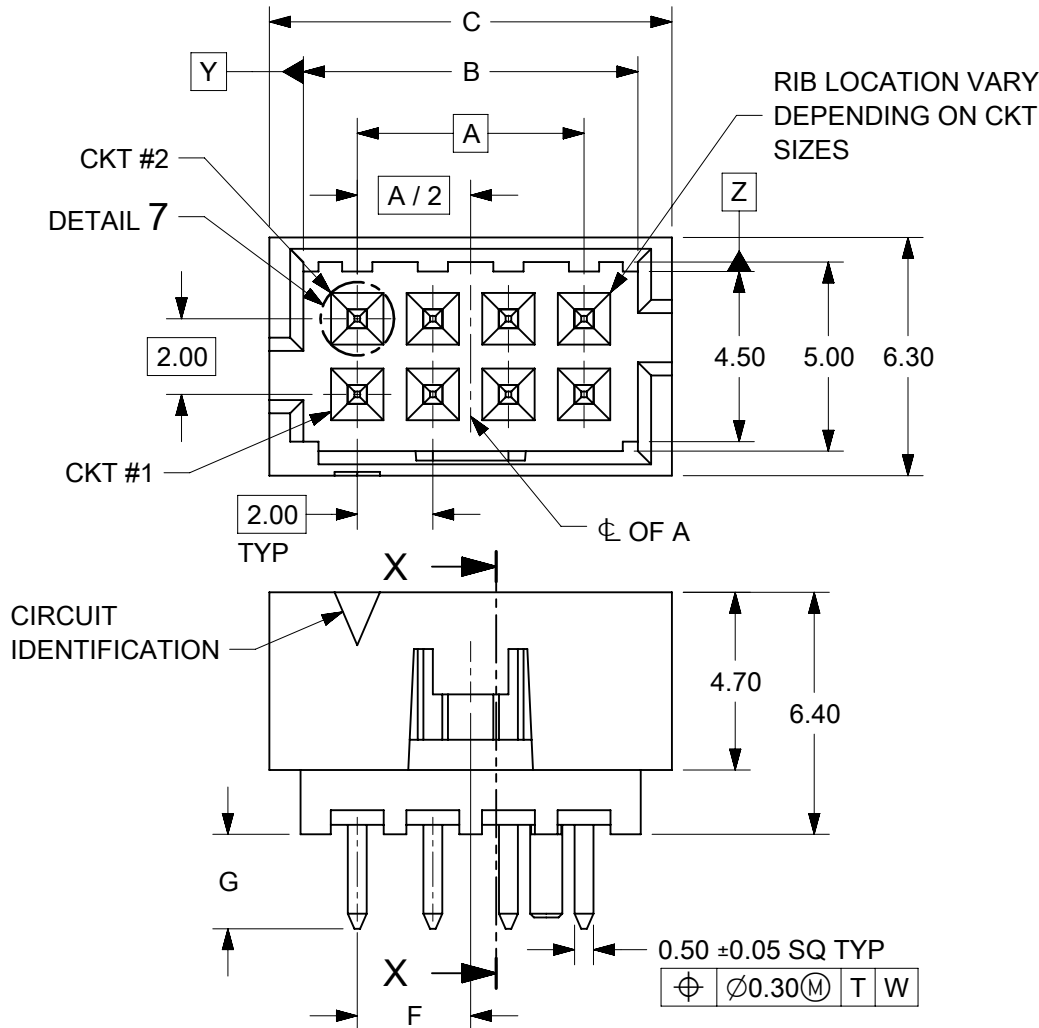
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-87831-0001	PSD	001	A24

DOCUMENT STATUS	P1	RELEASE DATE	2023/09/11 04:36:51
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FORMAT: Mtl-lega-master-ib-prod-A3
REVISION: E1
DATE: 2021/05/01

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6 CIRCUITS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B	A	F	E	D	C	B

8 TO 12 CIRCUITS



- 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 MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER						
mm		NTS											
GENERAL TOLERANCES (UNLESS SPECIFIED)													
	MM	INCH											
4 PLACES	±	±											
3 PLACES	±	±											
2 PLACES	±	0.2	±	EC NO: 761863 DRWN: SUAIFR CHK'D: GGA APPR: GGA 2023/08/14 2023/09/11 2023/09/11			PRODUCT CUSTOMER DRAWING						
1 PLACE	±	±											
0 PLACES	±	±											
ANGULAR TOL				±	3.0 °		DOCUMENT NUMBER SD-87831-0001 DOC TYPE PSD DOC PART 001 REVISION A24						
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																													
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	ASSY P/N WITHOUT CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTE R POLARI ZATION	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									
		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							4.00		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						YES	2.50										
		87831-1032	N.A	N.A		2																							
		87831-1043	N.A	N.A		2																							
		D		87831-1044	N.A	N.A		3	N.A	YES	N.A	YES						N.A		N.A	10.00	12.85	14.65	13.00	N.A	5.00	2.50	3.60 ^{+0.15} _{-0.10}	
				87831-1045	N.A	N.A		2																					
87831-1046	N.A			N.A		3																							
C	12			87831-1219	N.A	N.A		1	N.A	N.A	YES	N.A	YES	N.A	10.00	12.85	14.65	13.00	N.A	N.A									2.50
				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													5.00		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																					
				87831-1232	N.A	N.A		2	N.A	YES	YES	N.A	N.A	YES						2.50									
				87831-1243	N.A	N.A		2																					
		87831-1244	N.A	N.A		3																							
		B		87831-1245	N.A	N.A		2	N.A	YES	N.A	YES	N.A	YES							10.00	12.85	14.65	13.00	N.A	5.00	2.50	3.60 ^{+0.15} _{-0.10}	
				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.																													
A3-SIZE																													
87831																													
SEE TABLE																													
GENERAL MARKET																													
8 OF 14																													
1																													

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

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

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

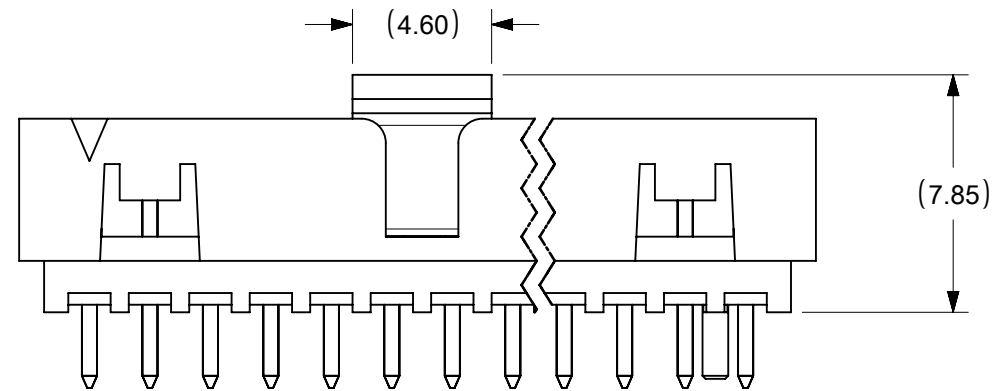
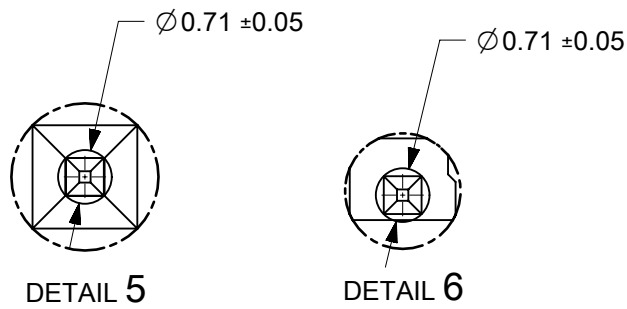
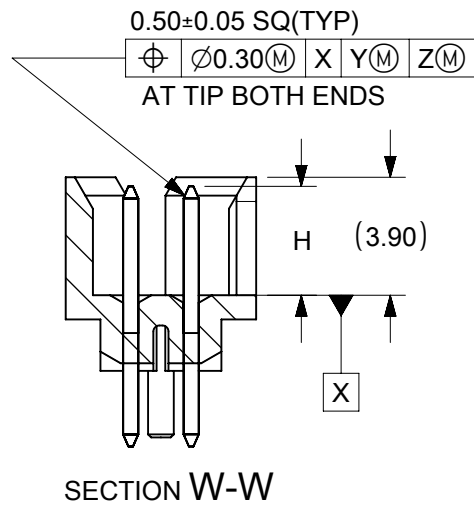
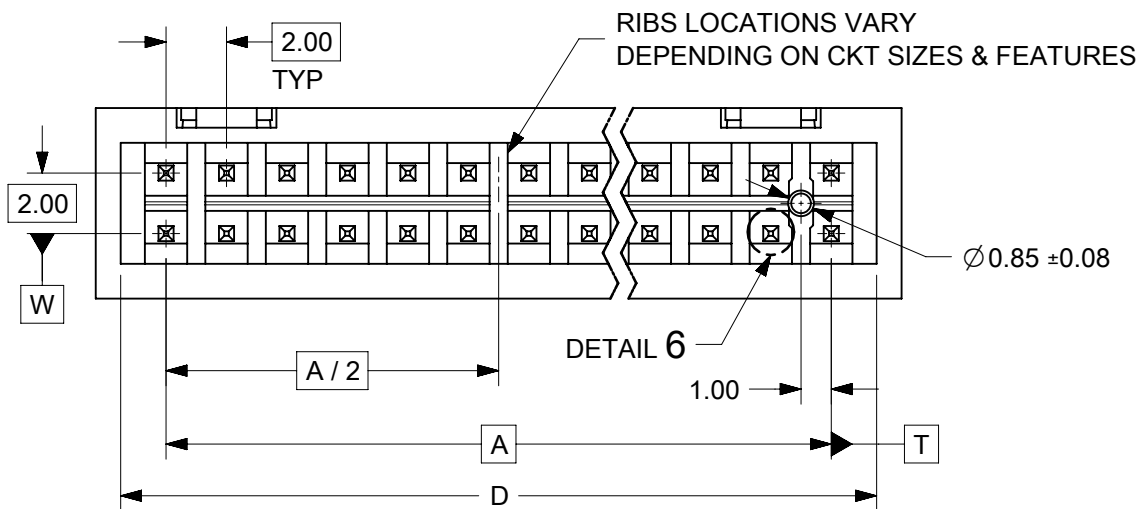
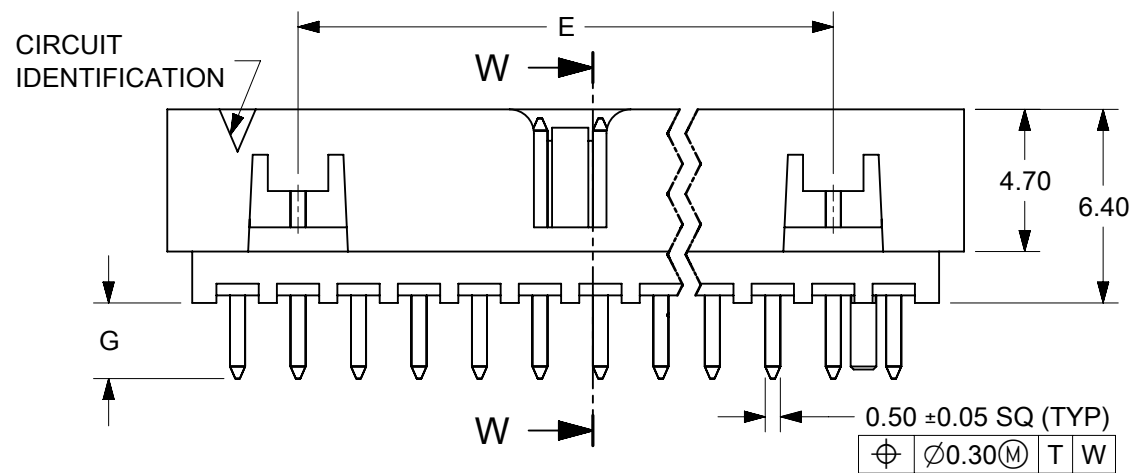
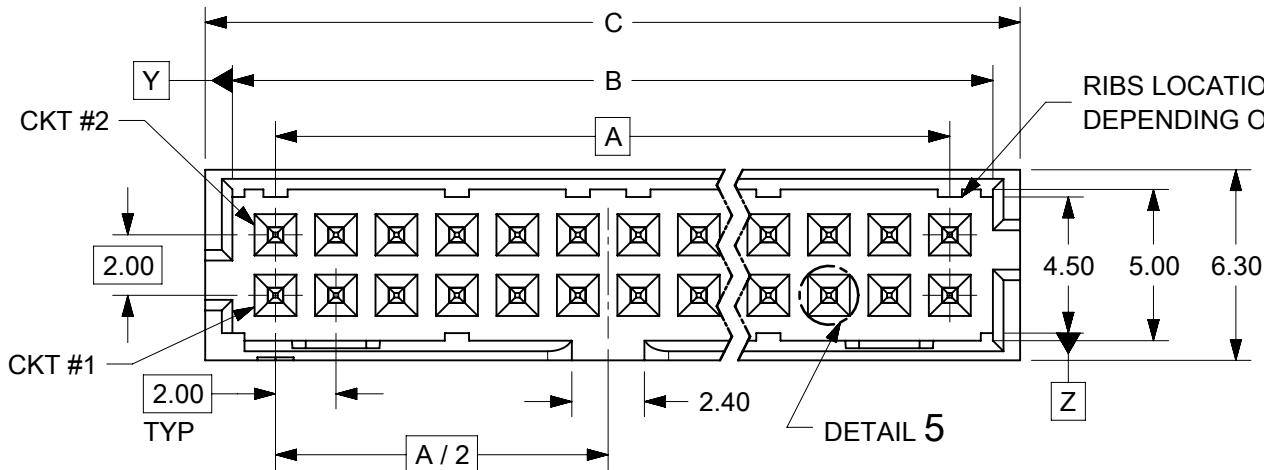
SD-87831-0001

PSD

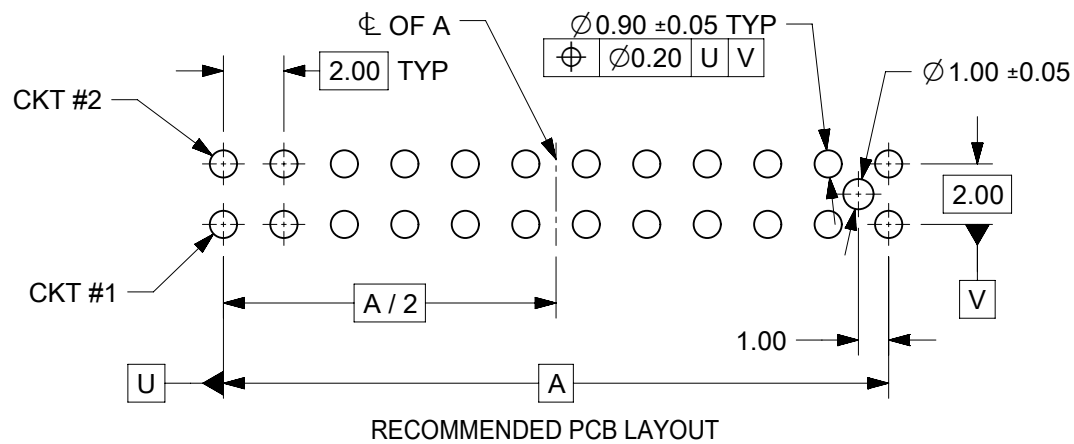
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A24

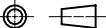
14 TO 50 CIRCUITS



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 MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER			
mm		NTS								
GENERAL TOLERANCES (UNLESS SPECIFIED)										
	MM	INCH								
4 PLACES	±		±				EC NO: 761863 DRWN: SUAIFR CHK'D: GGA APPR: GGA 2023/08/14 2023/09/11 2023/09/11			
3 PLACES	±		±							
2 PLACES	±	0.2	±							
1 PLACE	±		±	INITIAL REVISION: DRWN: GMENARLY APPR: KHLIM 2015/04/15 2015/06/29			PRODUCT CUSTOMER DRAWING			
0 PLACES	±		±				DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
ANGULAR TOL ± 3.0 °							SD-87831-0001		PSD	001
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	

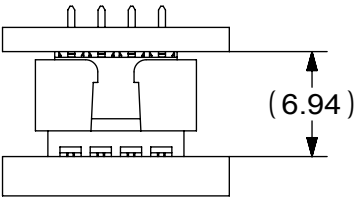
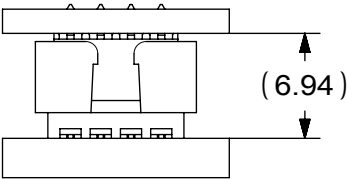
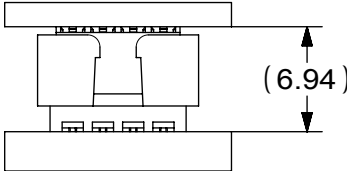
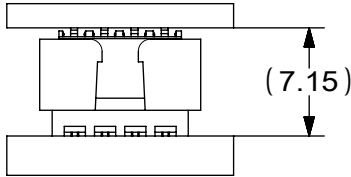
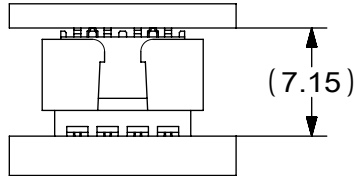
DOCUMENT STATUS	P1	RELEASE DATE	2023/09/11	04:36:51
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10	9	8	7	6	5	4	3	2	1										
22 TO 30 CIRCUITS																			
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	ASSY P/N WITHOUT CAP IN T&R	PLATING OPTIONS	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	
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														
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														
	87831-3010	87831-3030	87831-3050	N.A	2													YES	
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																																																																																					
87831-3229	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	2.50																																																																																
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																																																																																					
		87831-3429	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							2.50																																																																								
		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																																																																																					
		87831-3629	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							2.50																																																																								
		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																																																																																					
87831-3829	N.A			N.A	3	YES	N.A	YES	N.A	YES	YES	2.50																																																																														
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																																																																																					
		87831-4029	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES	2.50																																																																														
		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		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="4">CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512581.</td><td colspan="2" rowspan="4"> molex </td></tr><tr><td>mm</td><td>NTS</td></tr><tr><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td></tr><tr><td></td><td>MM</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>±</td><td>±</td><td rowspan="6">EC NO: 761863 DRWN: SUAIFR CHK'D: GGA APPR: GGA INITIAL REVISION: DRWN: GMENARLY APPR: KHLIM</td><td rowspan="6">2023/08/14 2023/09/11 2023/09/11 2015/04/15 2015/06/29</td><td colspan="2" rowspan="4">PRODUCT CUSTOMER DRAWING</td></tr><tr><td>3 PLACES</td><td>±</td><td>±</td></tr><tr><td>2 PLACES</td><td>±</td><td>0.2</td><td>±</td></tr><tr><td>1 PLACE</td><td>±</td><td>±</td></tr><tr><td>0 PLACES</td><td>±</td><td>±</td><td colspan="2">DOCUMENT NUMBER</td><td>DOC TYPE</td><td>DOC PART</td><td>REVISION</td></tr><tr><td colspan="2">ANGULAR TOL</td><td>±</td><td>3.0 °</td><td colspan="2">SD-87831-0001</td><td>PSD</td><td>001</td><td>A24</td></tr><tr><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">THIRD ANGLE PROJECTION</td><td>DRAWING</td><td>SERIES</td><td>MATERIAL NUMBER</td><td colspan="2">CUSTOMER</td><td colspan="2">SHEET NUMBER</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td>A3-SIZE</td><td>87831</td><td>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)			MM	INCH	4 PLACES	±	±	EC NO: 761863 DRWN: SUAIFR CHK'D: GGA APPR: GGA INITIAL REVISION: DRWN: GMENARLY APPR: KHLIM	2023/08/14 2023/09/11 2023/09/11 2015/04/15 2015/06/29	PRODUCT CUSTOMER DRAWING		3 PLACES	±	±	2 PLACES	±	0.2	±	1 PLACE	±	±	0 PLACES	±	±	DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	ANGULAR TOL		±	3.0 °	SD-87831-0001		PSD	001	A24	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	
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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	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																
E	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								
D	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														
	C	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
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															
B	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								
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.																			
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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)																			
	MM		INCH																	
4 PLACES		±		±	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											
3 PLACES		±		±																
2 PLACES		±	0.2	±																
1 PLACE		±		±																
0 PLACES		±		±	INITIAL REVISION:				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION							
ANGULAR TOL		±	3.0 °	DRWN: GMENARLY APPR: KHLIM 2015/04/15 2015/06/29				SD-87831-0001		PSD	001	A24								
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						A3-SIZE		87831	SEE TABLE		GENERAL MARKET		13 OF 14							
DOCUMENT STATUS		P1	RELEASE DATE	2023/09/11	04:36:51															
10		9		8		7		6		5		4		3		2		1		

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