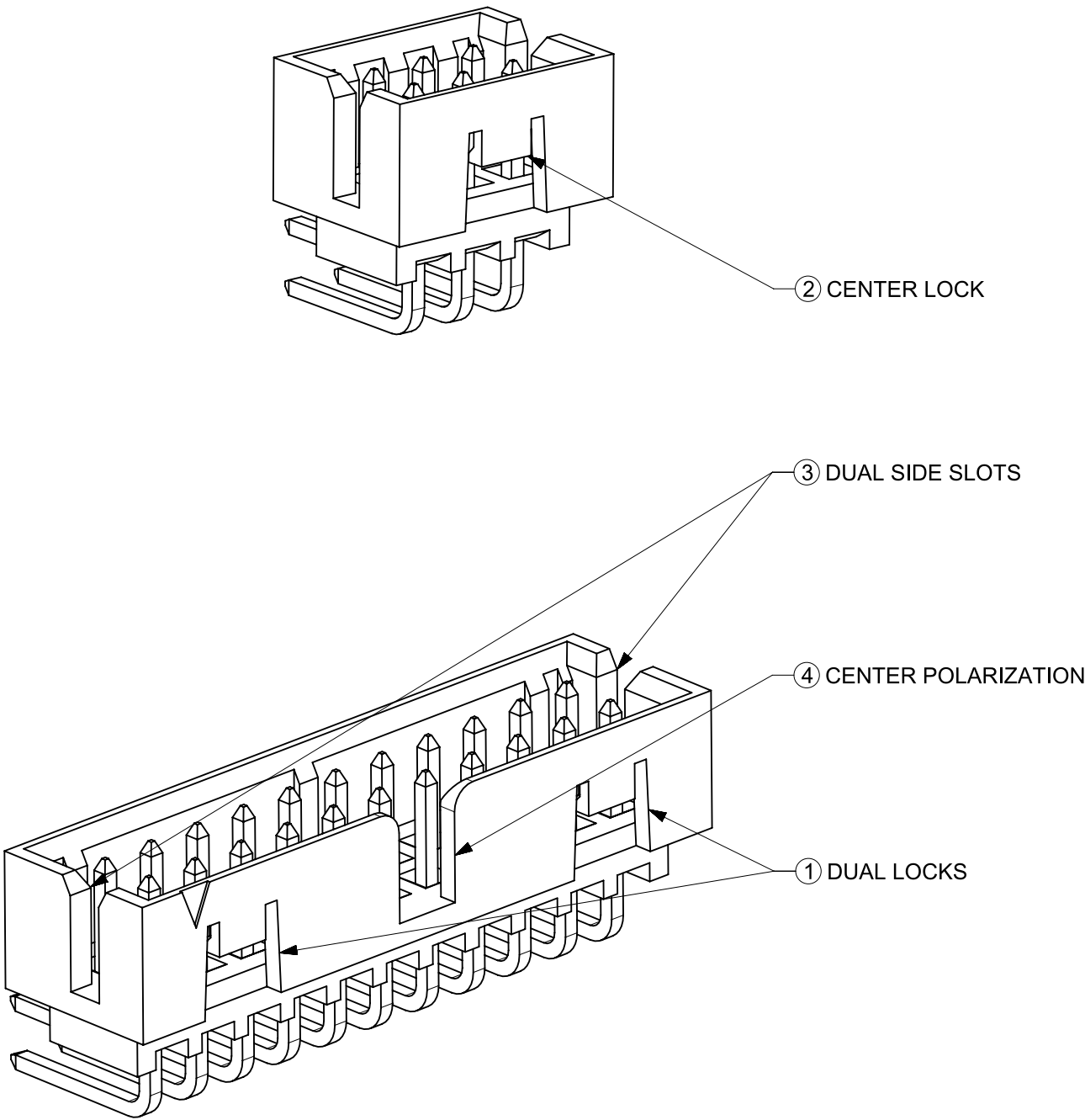


FEATURES SELECTION GUIDE



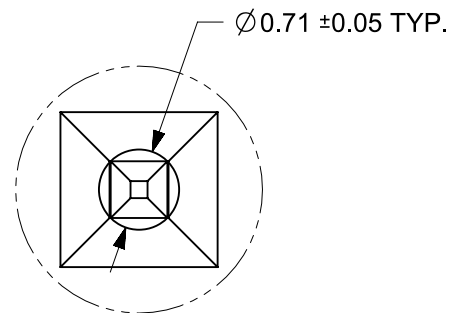
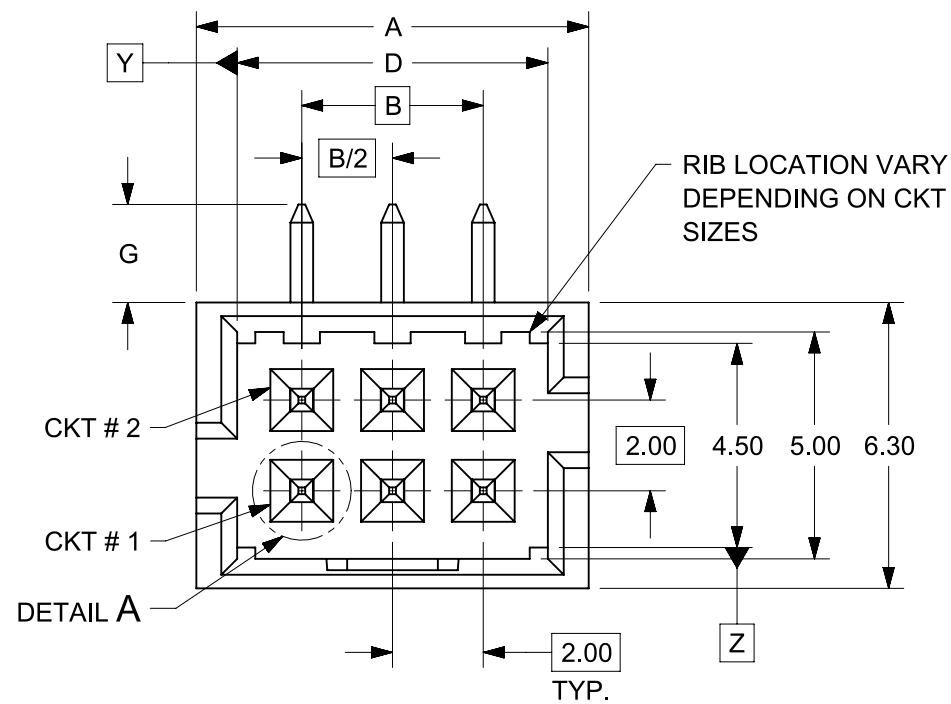
CIRCUIT SIZE	FEATURES				
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	SHEET NO
	① DUAL	② CENTER			
4 TO 6	N.A	N.A	YES	N.A	2 - 3
	N.A	YES	YES	N.A	
8 TO 12	N.A	N.A	YES	YES	4 - 5
	N.A	YES	YES	N.A	
14 TO 50	YES	N.A	YES	YES	6 - 9
	N.A	N.A	YES	YES	

PACKAGING SPECIFICATION TABLE

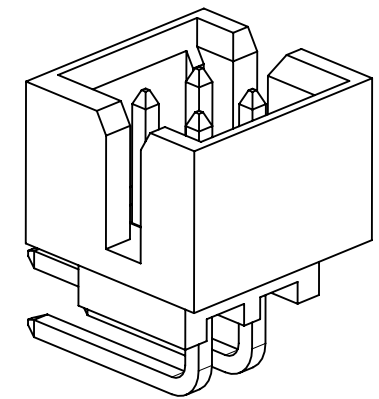
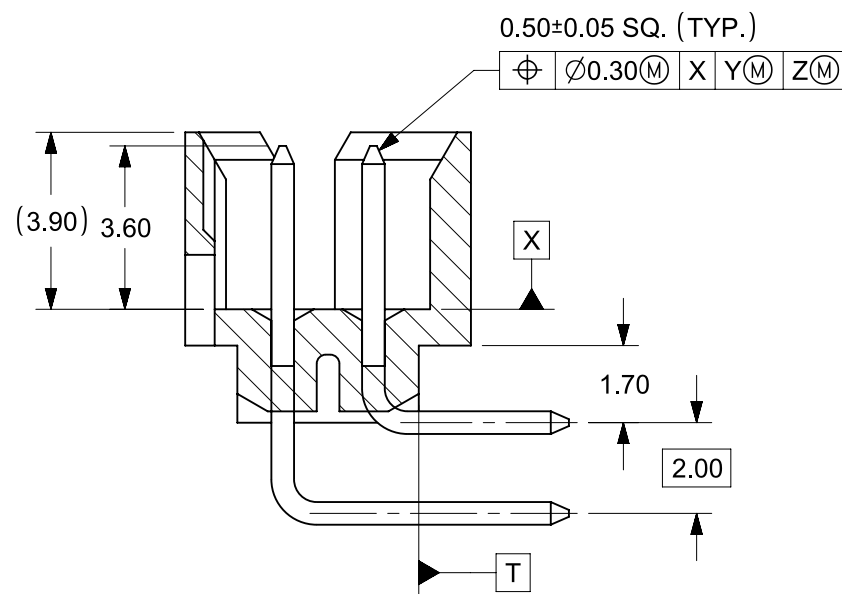
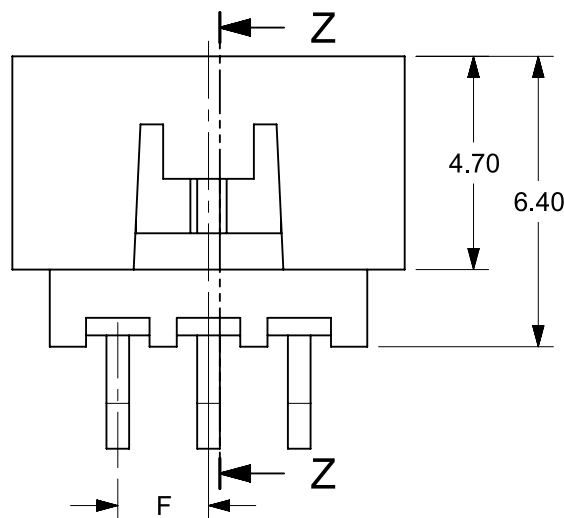
TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87833-0861 87833-1420	PK-87831-002

FUNCTIONAL SYMBOLS	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		5:1														
	GENERAL TOLERANCES (UNLESS SPECIFIED)				STATUS: Production DRWN: Meghraj Boodagatti 2026-06-03 CHK'D: Meghraj Boodagatti 2026-06-10 APPR: Saravanakumar Murugesan 2026-06-10				MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE								
	ANGULAR TOL ± 3°																
	4 PLACES		±														
	3 PLACES		±														
	2 PLACES		± 0.200														
	1 PLACE		±														
	0 PLACES		±														
DIVISIONAL SYMBOLS				THIRD ANGLE PROJECTION				DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						A3-SIZE		87833		SEE TABLE		GENERAL MARKET		1 OF 9			

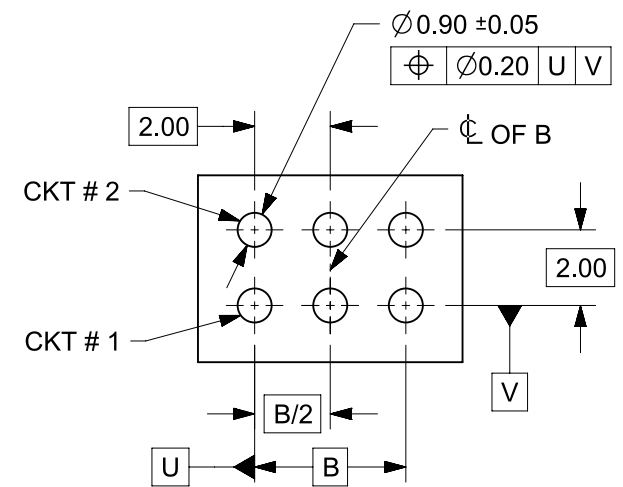
4 TO 6 CIRCUITS



DETAIL A

ISO VIEW OF HEADER
DUAL SIDE SLOTS

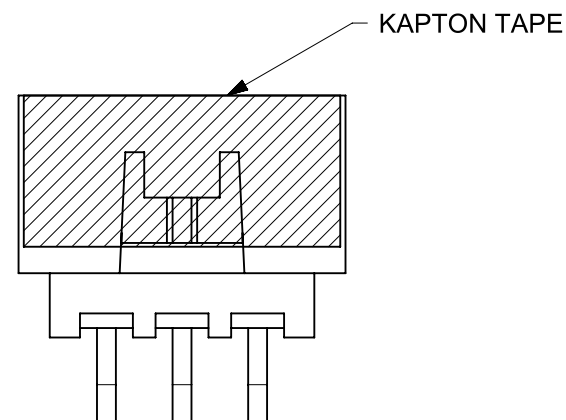
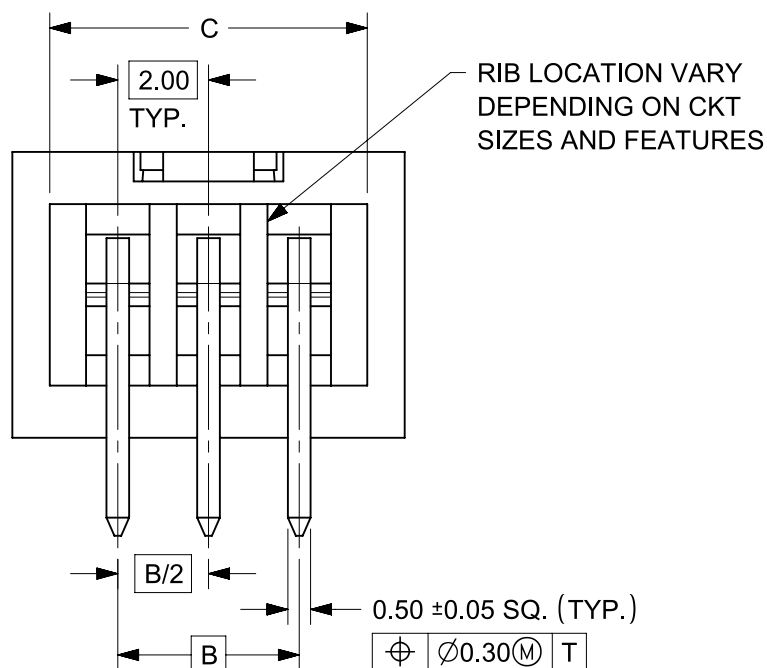
SECTION Z-Z



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)
6. FOR ILLUSTRATION PURPOSE, 6 CIRCUITS HEADER IS SHOWN.



FUNCTIONAL SYMBOLS	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			
	DIMENSION UNITS	SCALE				
$\nabla_A = 0$	mm	5:1				
$\nabla_C = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)					
$\nabla_P = 0$	ANGULAR TOL ± 3°					
DIVISIONAL SYMBOLS	4 PLACES	±				
	3 PLACES	±				
	2 PLACES	± 0.200				
	1 PLACE	±				
	0 PLACES	±				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER
				A3-SIZE	87833	SEE TABLE
					CUSTOMER	SHEET NUMBER
					GENERAL MARKET	2 OF 9

STATUS: Production

DRWN: Meghraj Boodagatti

CHK'D: Meghraj Boodagatti

APPR: Saravanakumar Murugesan

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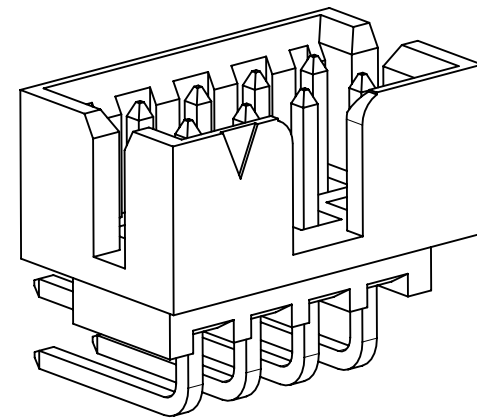
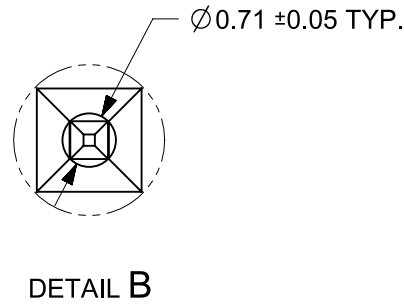
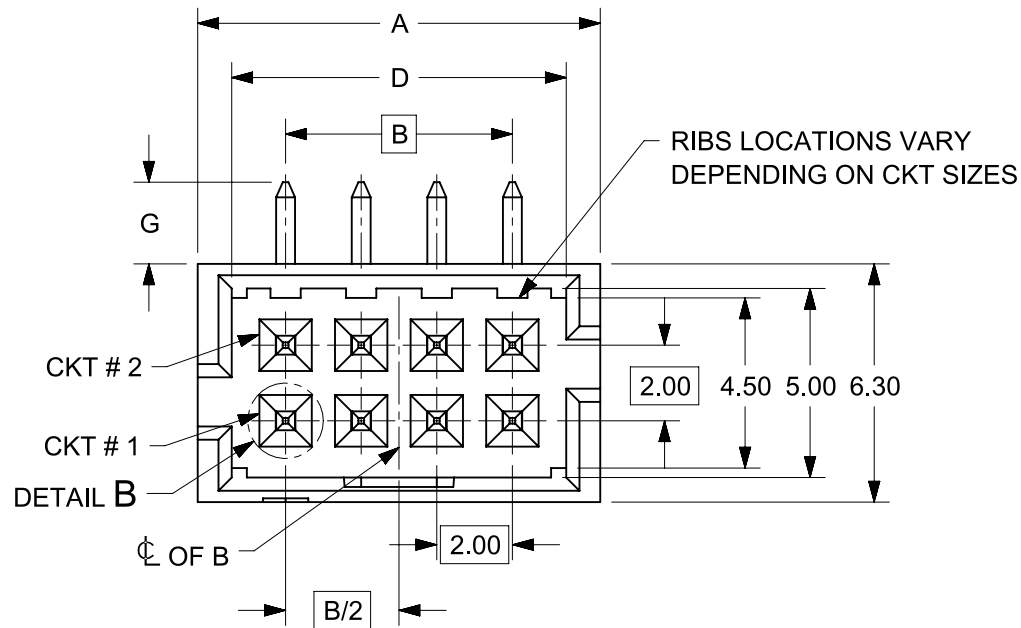
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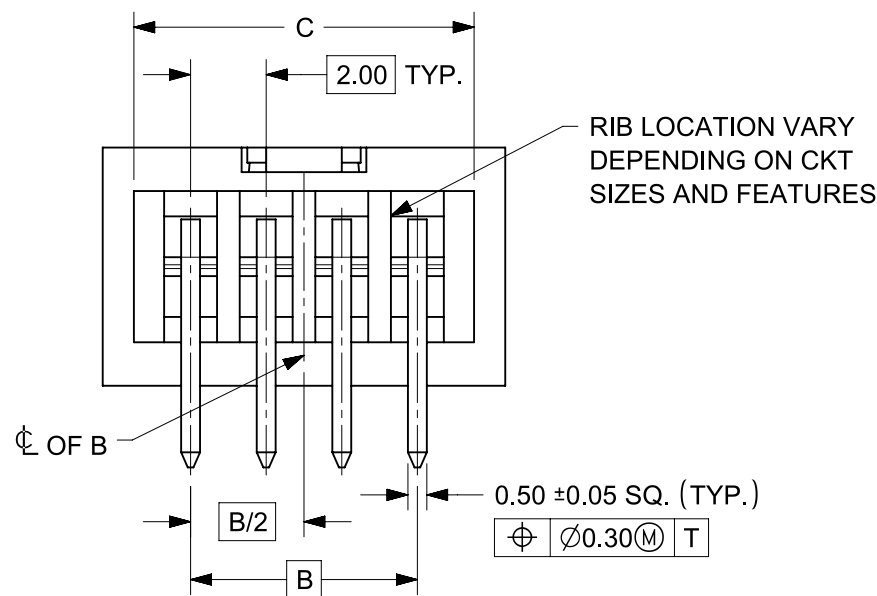
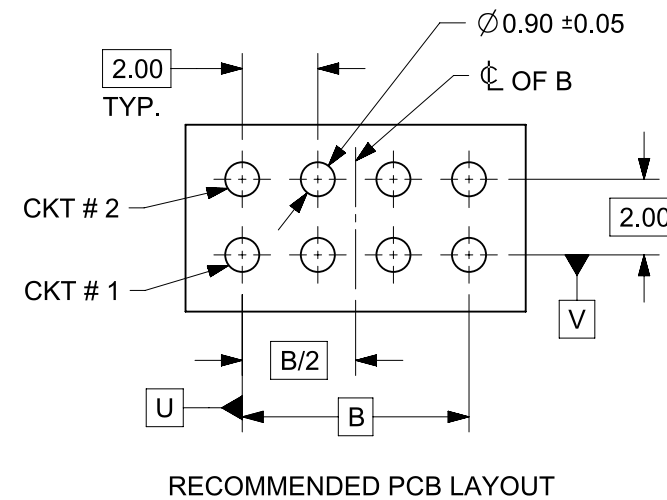
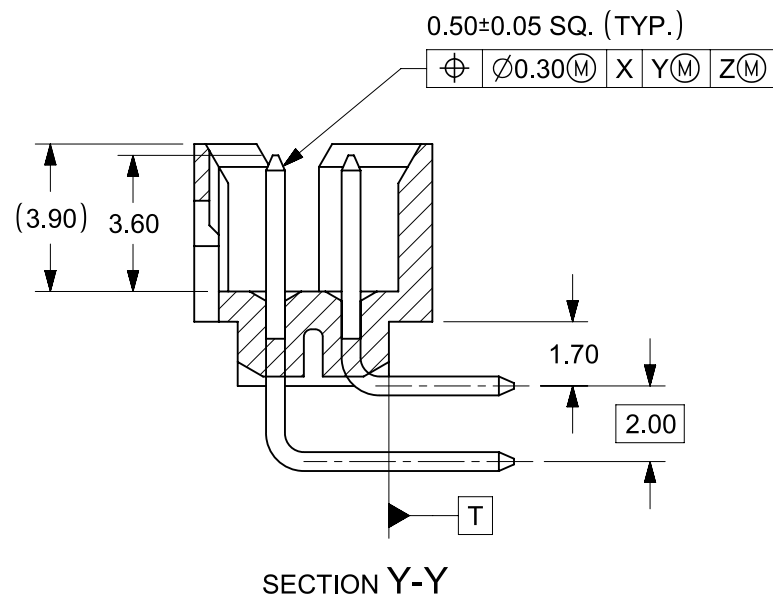
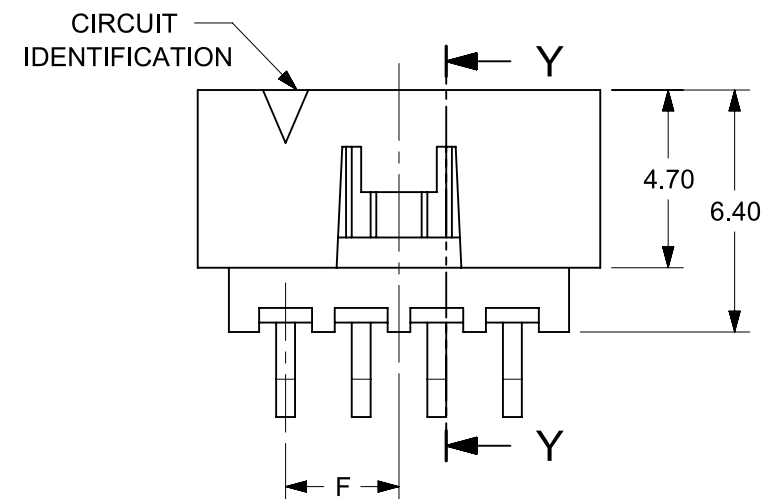
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	87833-0661	N.A	N.A	2	N.A	YES	YES	N.A						N.A	N.A	3.18																																																																																																
	87833-0624	N.A	N.A	2	N.A	N.A	YES	N.A									N.A	2.92																																																																																														
	87833-0625	N.A	N.A	3																																																																																																												
<u>PLATING OPTIONS:</u> 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 MIN. 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 MIN. GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.										<table><tr><td rowspan="10">FUNCTIONAL SYMBOLS</td><td colspan="10">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr><tr><td colspan="2">DIMENSION UNITS</td><td colspan="2">SCALE</td><td colspan="4" rowspan="4">CURRENT REV DESC: Adding New Part Numbers</td><td colspan="4" rowspan="4"> molex </td></tr><tr><td colspan="2">mm</td><td colspan="2">1:1</td></tr><tr><td colspan="4">GENERAL TOLERANCES (UNLESS SPECIFIED)</td></tr><tr><td colspan="2">ANGULAR TOL</td><td colspan="2">± 3°</td></tr><tr><td colspan="2">4 PLACES</td><td colspan="2">±</td><td colspan="4" rowspan="4">STATUS: Production DRWN: Meghraj Boodagatti 2026-06-03 CHK'D: Meghraj Boodagatti 2026-06-10 APPR: Saravanakumar Murugesan 2026-06-10</td><td colspan="4" rowspan="4">PRODUCT CUSTOMER DRAWING</td></tr><tr><td colspan="2">3 PLACES</td><td colspan="2">±</td></tr><tr><td colspan="2">2 PLACES</td><td colspan="2">± 0.200</td></tr><tr><td colspan="2">1 PLACE</td><td colspan="2">±</td></tr><tr><td colspan="2">0 PLACES</td><td colspan="2">±</td><td colspan="4" 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><td colspan="2" rowspan="2">SHEET NUMBER</td></tr><tr><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2">A3-SIZE</td><td colspan="2">87833</td><td colspan="2">SEE TABLE</td><td colspan="2">GENERAL MARKET</td><td colspan="2">3 OF 9</td></tr></table>										FUNCTIONAL SYMBOLS	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		1:1		GENERAL TOLERANCES (UNLESS SPECIFIED)				ANGULAR TOL		± 3°		4 PLACES		±		STATUS: Production DRWN: Meghraj Boodagatti 2026-06-03 CHK'D: Meghraj Boodagatti 2026-06-10 APPR: Saravanakumar Murugesan 2026-06-10				PRODUCT CUSTOMER DRAWING				3 PLACES		±		2 PLACES		± 0.200		1 PLACE		±		0 PLACES		±		THIRD ANGLE PROJECTION				DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						A3-SIZE		87833		SEE TABLE		GENERAL MARKET		3 OF 9	
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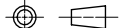
8 TO 12 CIRCUITS



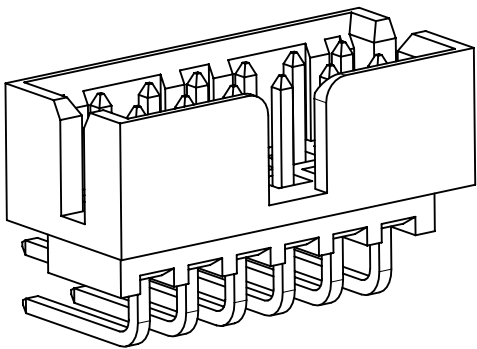
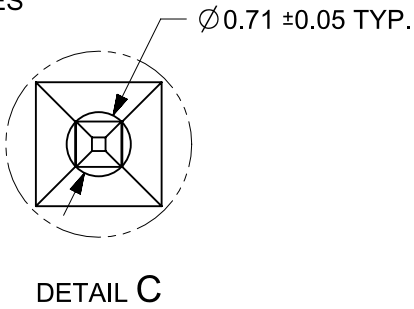
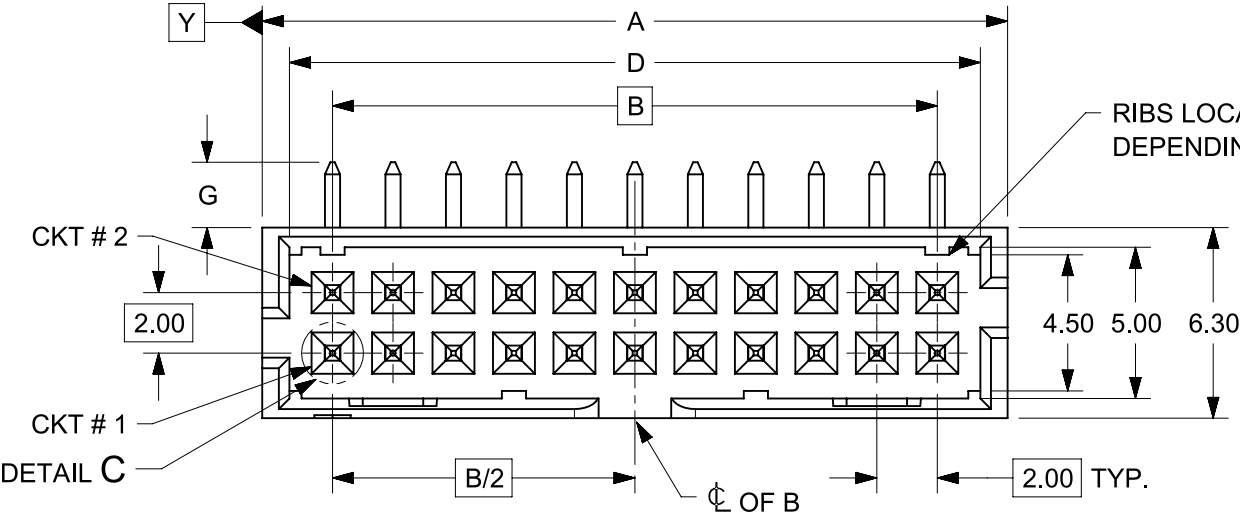
ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



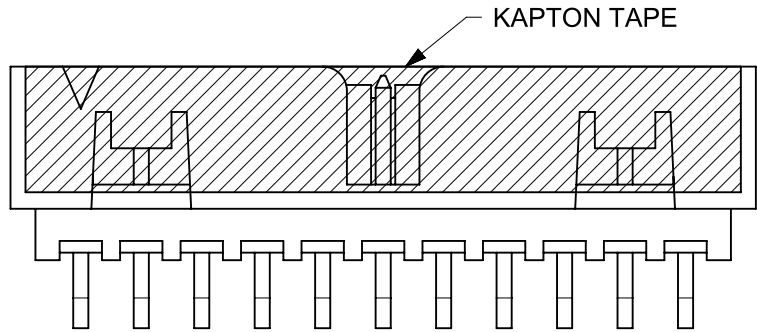
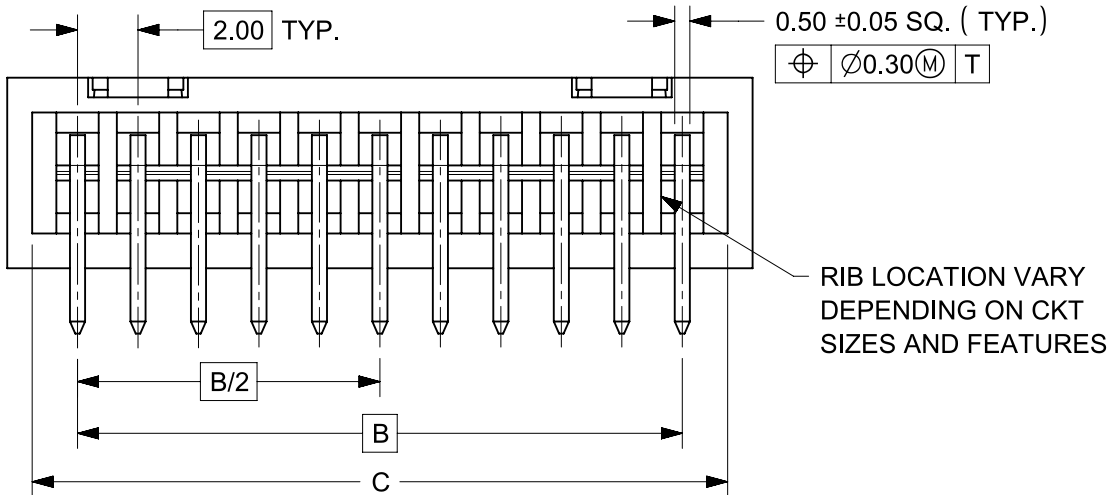
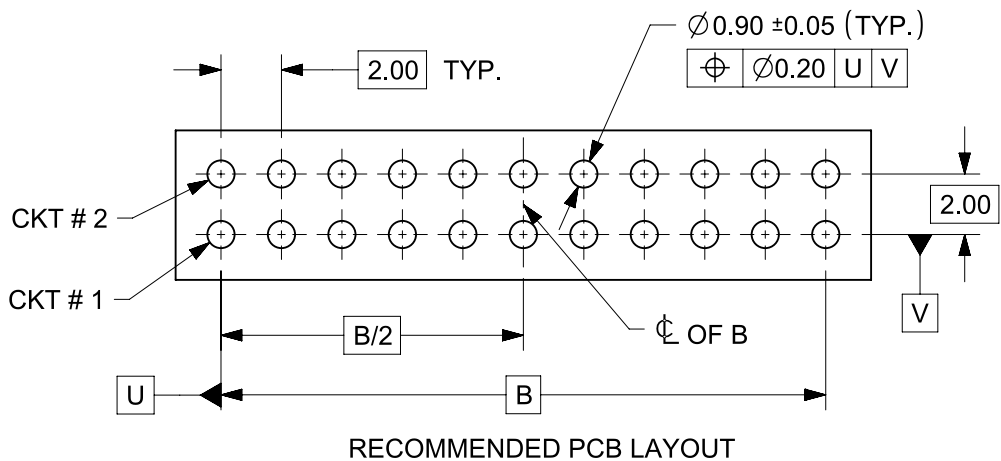
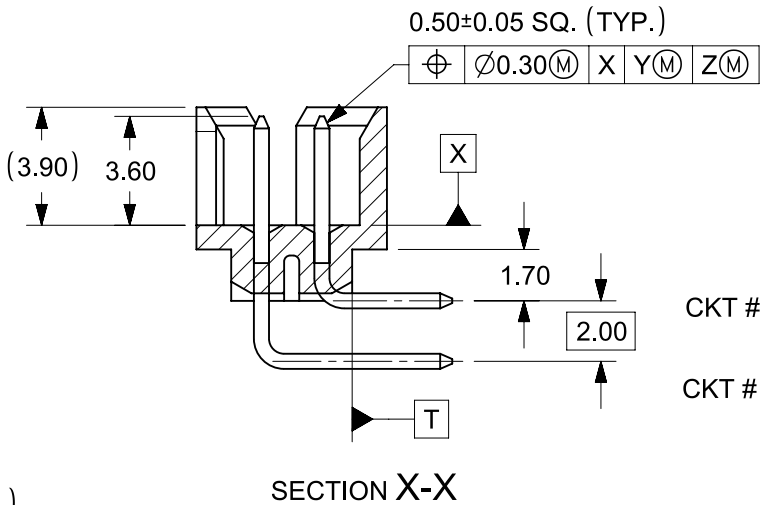
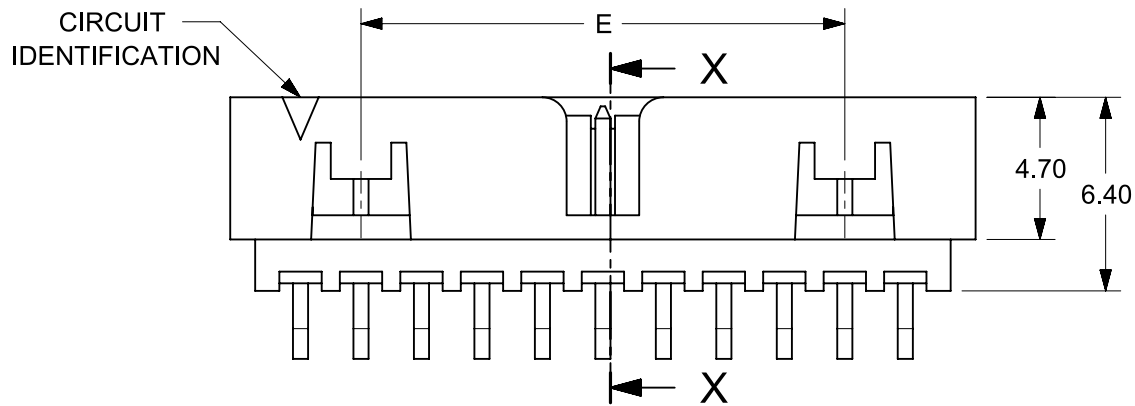
- NOTES:
- MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ. PHOSPHOR BRONZE.
 - FINISHES: REFER TO PLATING OPTIONS.
 - PRODUCT SPECIFICATION: PS-87831-027
 - PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
 - MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES 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)
 - FOR ILLUSTRATION PURPOSE, 8 CIRCUIT HEADER IS SHOWN.

FUNCTIONAL SYMBOLS	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		5:1										
	GENERAL TOLERANCES (UNLESS SPECIFIED)							MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE					
	ANGULAR TOL ± 3°												
	4 PLACES		±										
	3 PLACES		±										
	2 PLACES		± 0.200										
	1 PLACE		±										
	0 PLACES		±										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING				SERIES		MATERIAL NUMBER		CUSTOMER	
				A3-SIZE		87833		SEE TABLE		GENERAL MARKET		4 OF 9	

14 TO 50 CIRCUITS



ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



- 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)
 - FOR ILLUSTRATION PURPOSE, 22 CIRCUITS HEADER IS SHOWN.

FUNCTIONAL SYMBOLS	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								
$\nabla_A = 0$	mm	5:1	GENERAL TOLERANCES (UNLESS SPECIFIED)				MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE			
$\nabla_C = 0$										
$\nabla_P = 0$										
DIVISIONAL SYMBOLS	4 PLACES	±	STATUS: Production DRWN: Meghraj Boodagatti 2026-06-03 CHK'D: Meghraj Boodagatti 2026-06-10 APPR: Saravanakumar Murugesan 2026-06-10				PRODUCT CUSTOMER DRAWING			
	3 PLACES	±								
	2 PLACES	± 0.200								
	1 PLACE	±								
	0 PLACES	±								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER		
				A3-SIZE	87833	SEE TABLE	GENERAL MARKET	6 OF 9		

10	9	8	7	6	5	4	3	2	1							
14 TO 24 CIRCUITS																
CKT SIZE	ASSY. P/N WITHOUT KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN T&R	ASSY. P/N WITHOUT KAPTON IN T&R	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARI ZATION	DIMENSION						
						DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)
14	87833-1419	N.A	N.A	N.A	1	YES	N.A	YES	YES	16.65	12.00	15.00	14.85	8.00	N.A	2.16
	87833-1420	N.A	N.A	N.A	2											
	87833-1421	N.A	N.A	N.A	3											
	87833-5320	N.A	N.A	N.A	2	YES	N.A	YES	YES							
	87833-5321	N.A	N.A	N.A	3											
	87833-1436	N.A	N.A	N.A	3											
	87833-7520	N.A	87833-7420	N.A	2											
YES	N.A	YES	YES	1.70												
16	87833-1619	N.A	N.A	N.A	1	YES	N.A	YES	YES	18.65	14.00	17.00	16.85	10.00	N.A	2.16
	87833-1620	N.A	N.A	N.A	2											
	87833-1621	N.A	87833-7821	N.A	3											
	87833-6120	N.A	87833-7120	N.A	2											
YES	N.A	YES	YES	3.18												
18	87833-1819	N.A	N.A	N.A	1	YES	N.A	YES	YES	20.65	16.00	19.00	18.85	12.00	N.A	2.16
	87833-1820	N.A	N.A	N.A	2											
	87833-1821	N.A	N.A	N.A	3											
	87833-6220	N.A	N.A	N.A	2											
YES	N.A	YES	YES	3.18												
20	87833-2019	N.A	N.A	N.A	1	YES	N.A	YES	YES	22.65	18.00	21.00	20.85	14.00	N.A	2.16
	87833-2020	N.A	87833-7220	N.A	2											
	87833-2021	N.A	N.A	N.A	3											
	87833-6520	N.A	N.A	N.A	2	YES	N.A	YES	YES							
	87833-6521	N.A	N.A	(A14) 87833-2037	3											
	87833-2036	N.A	N.A	N.A	3											
YES	N.A	YES	YES	3.50												
22	87833-2219	N.A	N.A	N.A	1	YES	N.A	YES	YES	24.65	20.00	23.00	22.85	16.00	N.A	2.16
	87833-2220	N.A	N.A	N.A	2											
	87833-2221	N.A	N.A	N.A	3											
24	87833-2419	N.A	N.A	N.A	1	YES	N.A	YES	YES	26.65	22.00	25.00	24.85	18.00	N.A	2.16
	87833-2420	N.A	87833-7020	N.A	2											
	87833-2421	N.A	N.A	N.A	3											
	87833-7320	N.A	N.A	N.A	2	YES	N.A	YES	YES							
	87833-2436	N.A	N.A	N.A	3											
	87833-6920	N.A	N.A	N.A	2											
YES	N.A	YES	YES	3.27												

FUNCTIONAL SYMBOLS

FA= 0

FC= 0

FP= 0

DIVISIONAL SYMBOLS

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

DIMENSION UNITS

SCALE

mm

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 3°

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.200

1 PLACE ±

0 PLACES ±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: Adding New Part Numbers

STATUS: Production

DRWN: Meghraj Boodagatti

CHK'D: Meghraj Boodagatti

APPR: Saravanakumar Murugesan

2026-06-03

2026-06-10

2026-06-10

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

molex

MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

DOC TYPE

DOC PART

REVISION

SD-87833-0001

PSD

001

A15

SEE TABLE

GENERAL MARKET

7 OF 9

FORMAT: TC-DWG-000003

REVISION: F

DATE: 2022/06/01

10

9

8

7

6

5

4

3

2

1

10	9	8	7	6	5	4	3	2	1							
40 TO 50 CIRCUITS																
CKT SIZE	ASSY. P/N WITHOUT KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN TUBE	ASSY. P/N WITH KAPTON IN T&R	ASSY. P/N WITHOUT KAPTON IN T&R	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATI ON	DIMENSION						
						DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)
40	87833-4019	N.A	N.A	N.A	1	YES	N.A	YES	YES	42.65	38.00	41.00	40.85	34.00	N.A	2.16
	87833-4020	N.A	N.A	N.A	2											
	87833-4021	N.A	N.A	N.A	3											
42	87833-4219	N.A	N.A	N.A	1	YES	N.A	YES	YES	44.65	40.00	43.00	42.85	36.00	N.A	2.16
	87833-4220	N.A	N.A	N.A	2											
	87833-4221	N.A	N.A	N.A	3											
	87833-4222	N.A	87833-4322	87833-4223	3	YES	N.A	YES	YES							3.50
44	87833-4419	N.A	N.A	N.A	1	44.65	40.00	43.00	42.85	2.16	42.00	45.00	44.85	38.00	N.A	2.16
	87833-4420	N.A	N.A	N.A	2											
	87833-4421	N.A	N.A	N.A	3											
	87833-4424	N.A	N.A	N.A	2	N.A	N.A	YES	YES							
	87833-4425	N.A	N.A	N.A	3											
46	87833-4619	N.A	N.A	N.A	1	YES	N.A	YES	YES	48.65	44.00	47.00	46.85	40.00	N.A	2.16
	87833-4620	N.A	N.A	N.A	2											
	87833-4621	N.A	N.A	N.A	3											
48	87833-4819	N.A	N.A	N.A	1	YES	N.A	YES	YES	50.65	46.00	49.00	48.85	42.00	N.A	2.16
	87833-4820	N.A	N.A	N.A	2											
	87833-4821	N.A	N.A	N.A	3											
50	87833-5019	N.A	N.A	N.A	1	YES	N.A	YES	YES	52.65	48.00	51.00	50.85	44.00	N.A	2.16
	87833-5020	N.A	N.A	N.A	2											
	87833-5021	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 MIN. 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 MIN. GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.																
FUNCTIONAL SYMBOLS FA = 0 FC = 0 FP = 0 DIVISIONAL SYMBOLS THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS mm SCALE 1:1 GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 3° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.200 1 PLACE ± 0 PLACES ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS CURRENT REV DESC: Adding New Part Numbers STATUS: Production DRWN: Meghraj Boodagatti CHK'D: Meghraj Boodagatti APPR: Saravanakumar Murugesan 2026-06-03 2026-06-10 2026-06-10 THIRD ANGLE PROJECTION DRAWING A3-SIZE SERIES 87833 DOCUMENT NUMBER SD-87833-0001 DOC TYPE PSD DOC PART 001 REVISION A15 MATERIAL NUMBER SEE TABLE CUSTOMER GENERAL MARKET SHEET NUMBER 9 OF 9																
10	9	8	7	6	5	4	3	2	1							