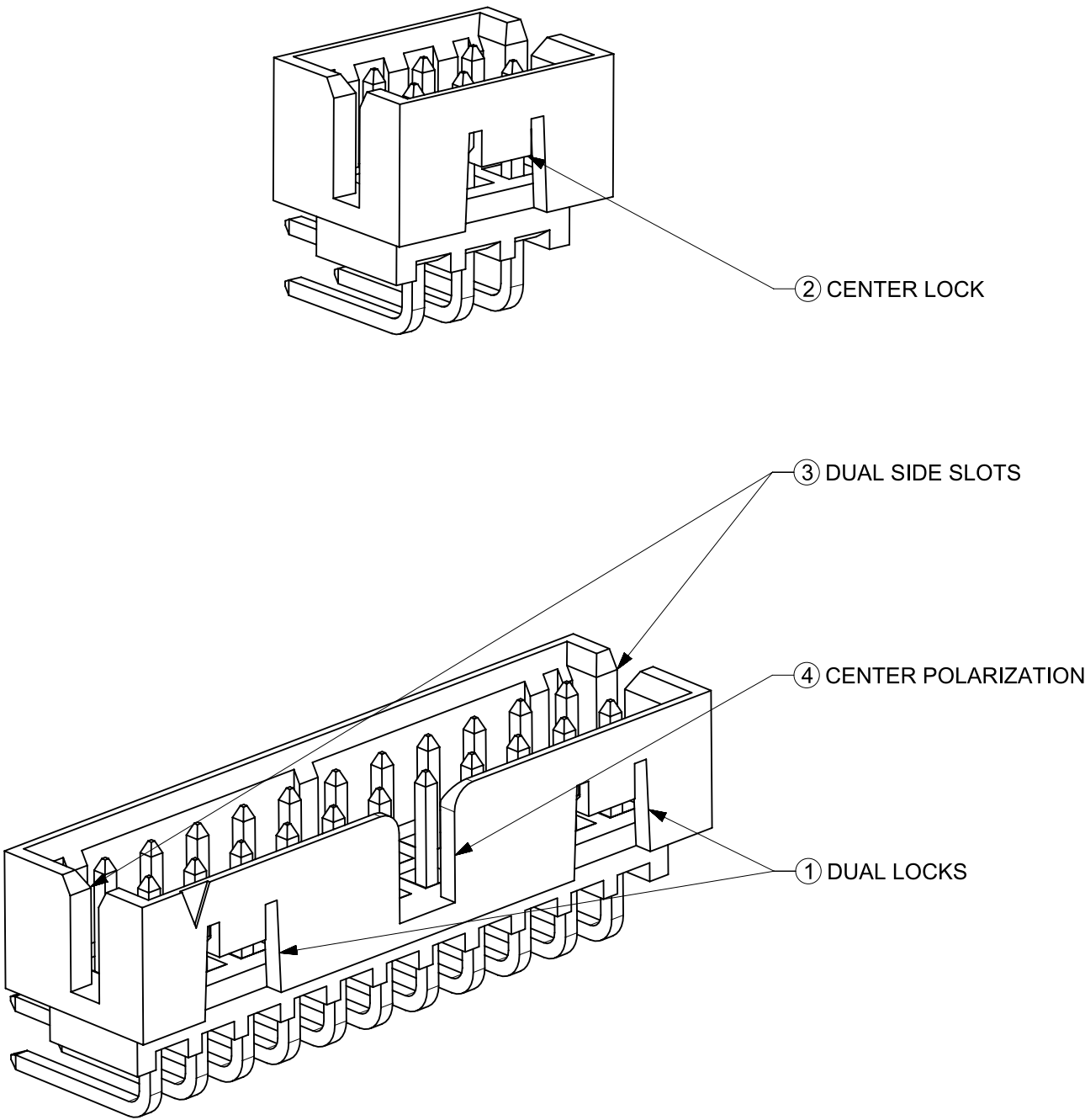


FEATURES SELECTION GUIDE



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									
</										

10	9	8	7	6	5	4	3	2	1																													
4 TO 6 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	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	DIMENSION																													
					DUAL	CENTER			A	B	C	D	E	F	G (SOLDER TAIL)																							
4	87833-0419	N.A	N.A	1	N.A	N.A	YES	N.A	6.65	2.00	5.00	4.85	N.A	N.A	2.16																							
	87833-0420	N.A	N.A	2																																		
	87833-0421	N.A	N.A	3																																		
	87833-5920	N.A	N.A	2	N.A	N.A	YES	N.A						N.A	N.A	3.18																						
	87833-0431	87833-0441	87833-0451	2	N.A	YES	YES	N.A									1.00	2.16																				
	87833-0432	N.A	N.A	3																																		
	87833-0461	N.A	N.A	2	N.A	YES	YES	N.A						1.00	3.18																							
6	87833-0619	N.A	N.A	1	N.A	N.A	YES	N.A	8.65	4.00	7.00	6.85	N.A	N.A	2.16																							
	87833-0620	N.A	87833-0626	2																																		
	87833-0621	N.A	N.A	3																																		
	87833-6420	N.A	N.A	2	N.A	N.A	YES	N.A						N.A	N.A	3.18																						
	87833-0631	87833-0641	87833-0651	2	N.A	YES	YES	N.A									2.00	2.16																				
	87833-0632	N.A	N.A	3																																		
	87833-0661	N.A	N.A	2	N.A	YES	YES	N.A						N.A	N.A	2.92																						
	87833-0624	N.A	N.A	2	N.A	N.A	YES	N.A									2.00	3.18																				
	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="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>FA = 0</td><td>mm1:1</td></tr><tr><td>FC = 0</td><td>GENERAL TOLERANCES (UNLESS SPECIFIED)</td></tr><tr><td>FP = 0</td><td>ANGULAR TOL ± 3°</td></tr><tr><td rowspan="5">DIVISIONAL SYMBOLS</td><td>4 PLACES ±</td></tr><tr><td>3 PLACES ±</td></tr><tr><td>2 PLACES ± 0.200</td></tr><tr><td>1 PLACE ±</td></tr><tr><td>0 PLACES ±</td></tr><tr><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td></tr><tr><td>THIRD ANGLE PROJECTION</td><td>DRAWING</td></tr><tr><td>SERIES</td><td>MATERIAL NUMBER</td></tr><tr><td>CUSTOMER</td><td>SHEET NUMBER</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		FA = 0	mm1:1	FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	FP = 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	CUSTOMER	SHEET NUMBER
FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																																					
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	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																																					
THIRD ANGLE PROJECTION	DRAWING																																					
SERIES	MATERIAL NUMBER																																					
CUSTOMER	SHEET NUMBER																																					

FORMAT: TC-001-000003
REVISION: 0
DATE: 2022/06/01

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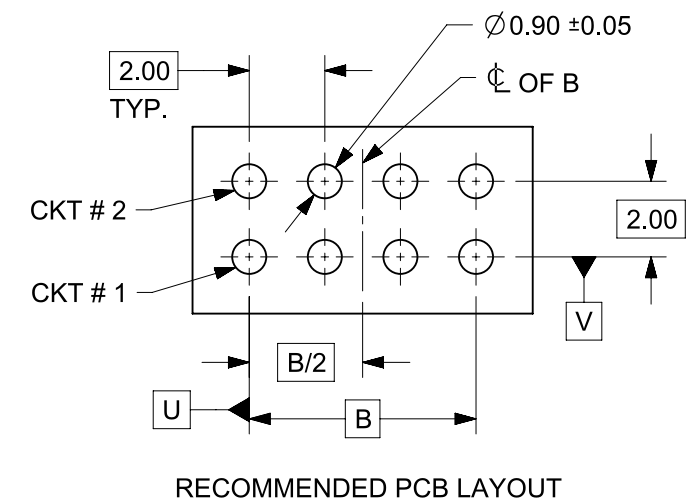
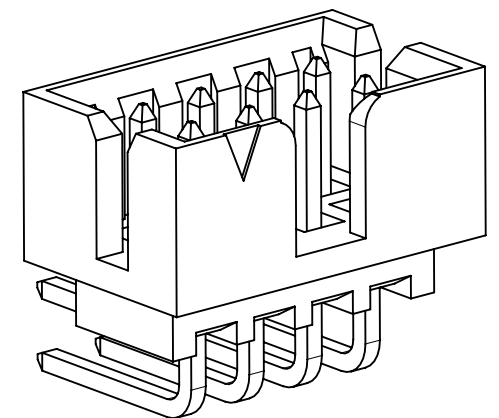
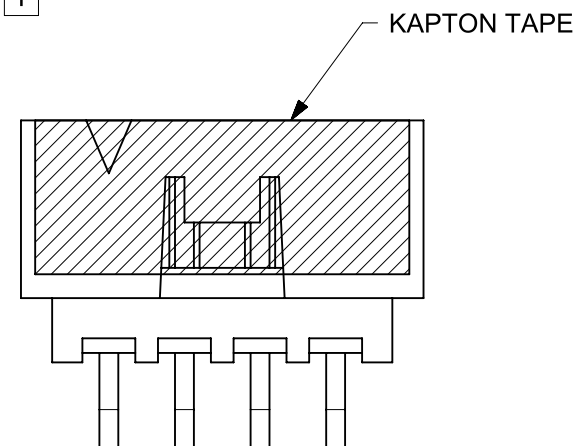
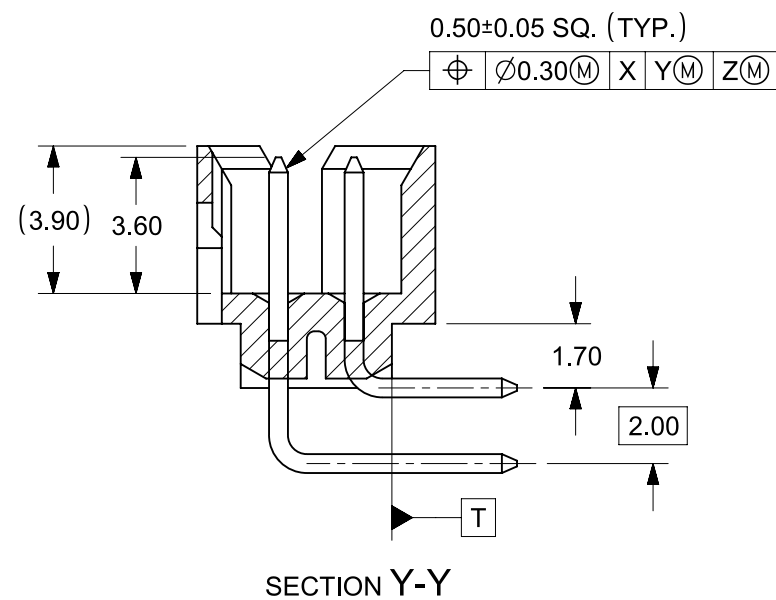
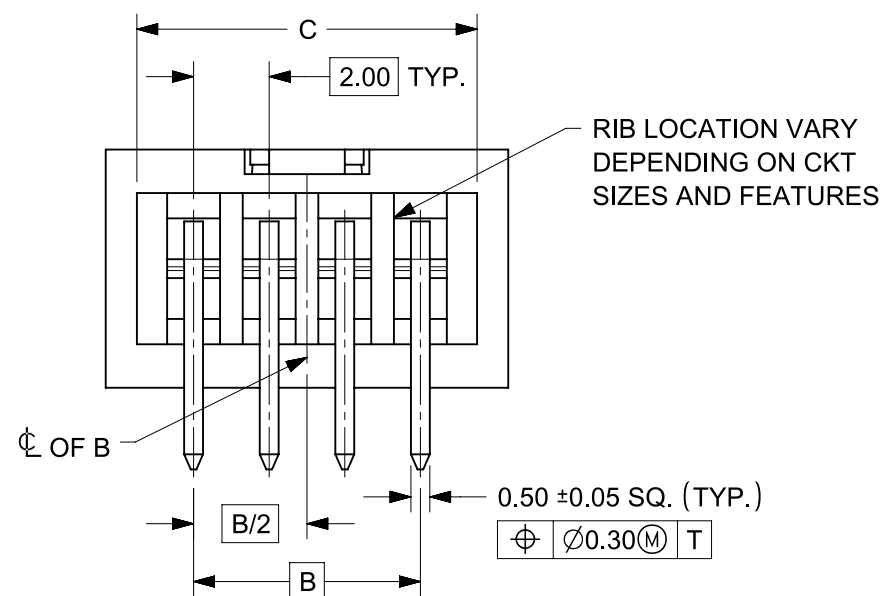
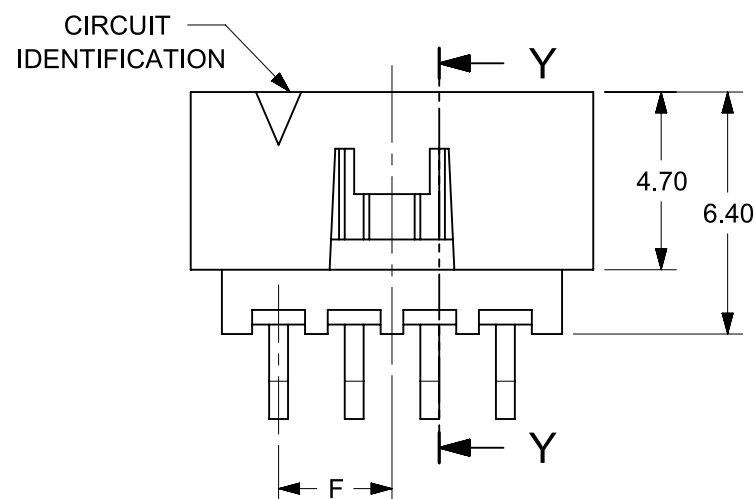
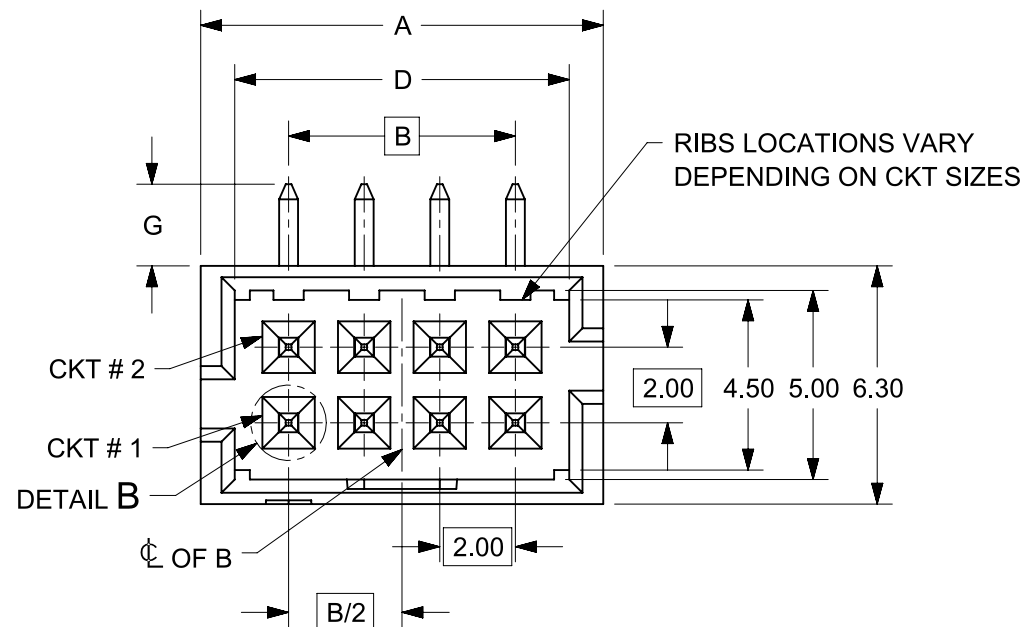
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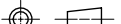
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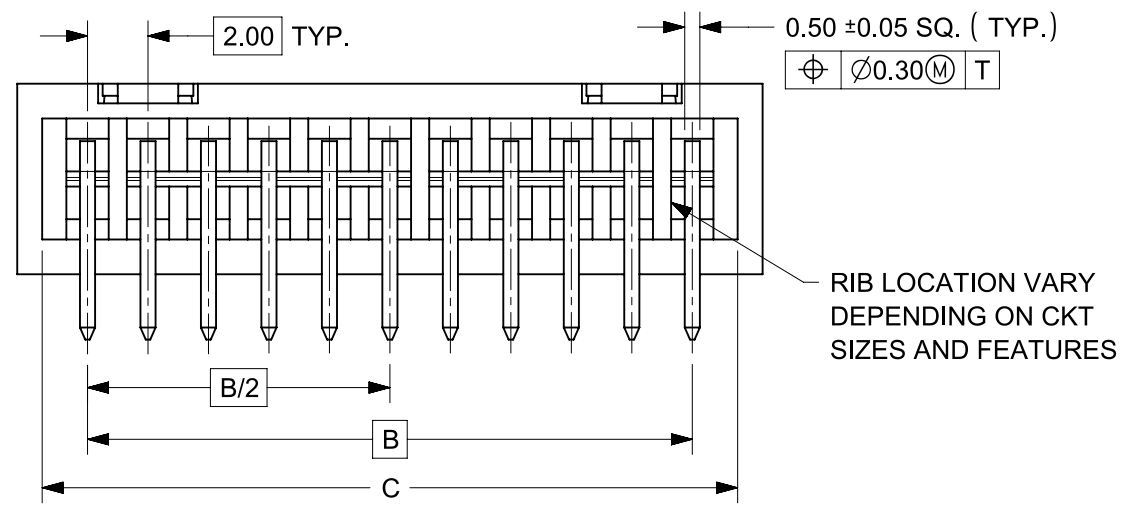
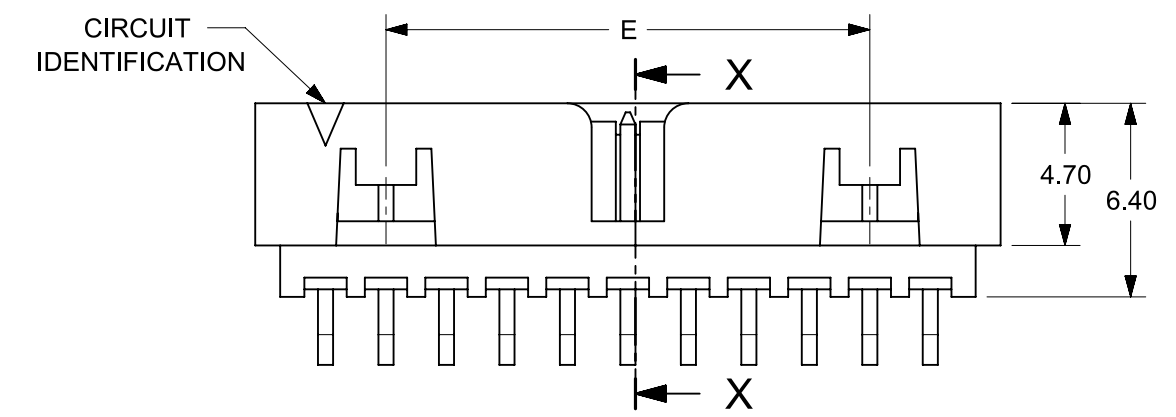
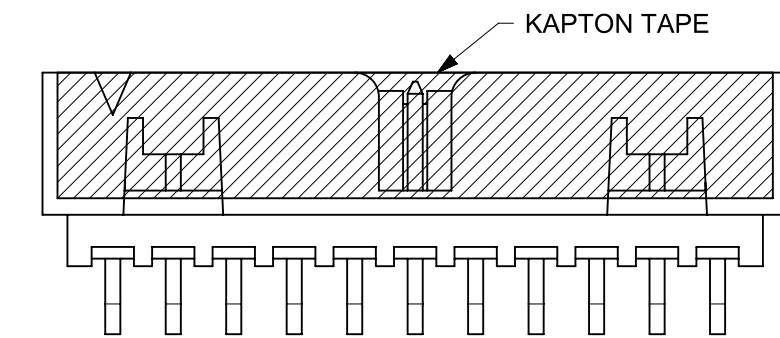
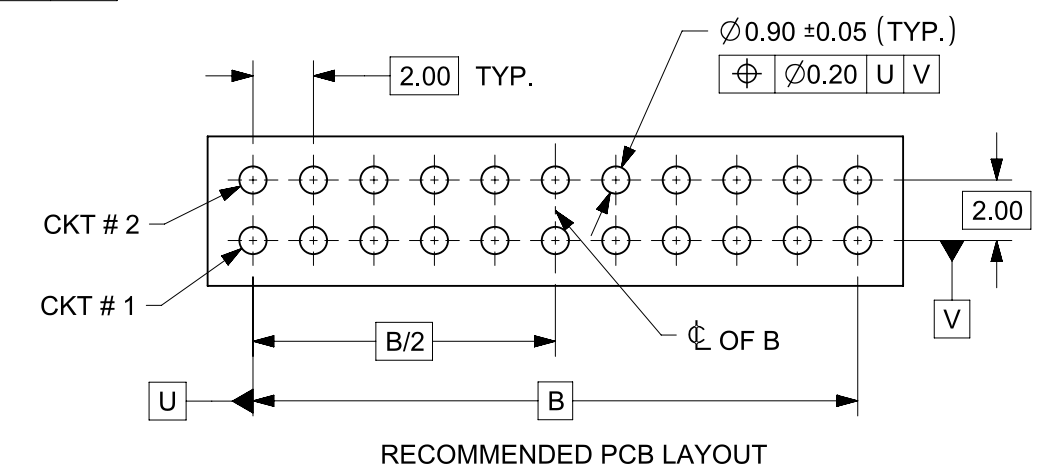
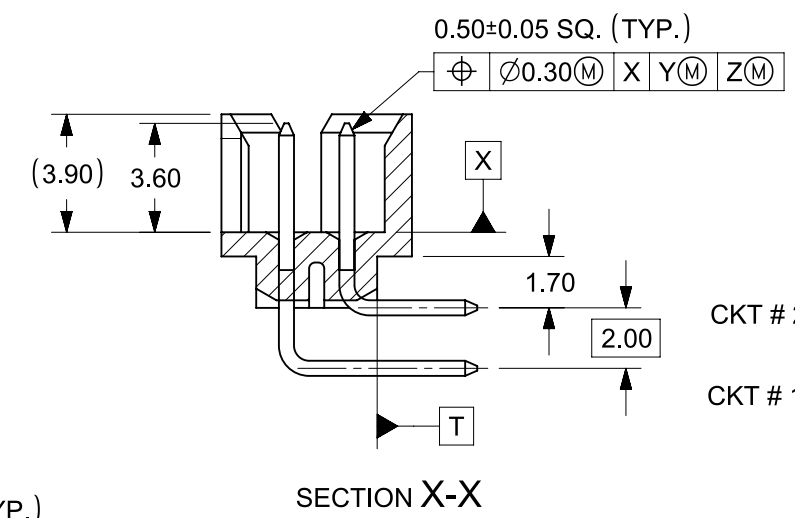
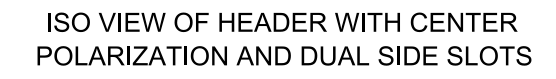
DETAIL B



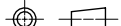
- NOTES:
1. MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ. PHOSPHOR BRONZE.
 2. FINISHES: REFER TO PLATING OPTIONS.
 3. PRODUCT SPECIFICATION: PS-87831-027
 4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
 5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 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, 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 MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE					
F_A = 0	mm		5:1									
F_C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER SD-87833-0001 DOC TYPE PSD DOC PART 001 REVISION A15							
F_D = 0	ANGULAR TOL ± 3°											
4 PLACES		±										
DIVISIONAL SYMBOLS	3 PLACES		±		STATUS: Production DRWN: Meghraj Boodagatti 2026-06-03 CHK'D: Meghraj Boodagatti 2026-06-10 APPR: Saravanakumar Murugesan 2026-06-10		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
	2 PLACES		± 0.200				SEE TABLE		GENERAL MARKET		4 OF 9	
	1 PLACE		±				THIRD ANGLE PROJECTION  A3-SIZE 87833					
	0 PLACES		±									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS												

DETAIL C



- 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, 22 CIRCUITS HEADER IS SHOWN.

FUNCTIONAL SYMBOLS = 0 = 0 = 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		CURRENT REV DESC: Adding New Part Numbers					molex MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE						
	mm		5:1													
	GENERAL TOLERANCES (UNLESS SPECIFIED)															
	ANGULAR TOL		± 3'													
	4 PLACES		±													
	3 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						
	2 PLACES		± 0.200							DOCUMENT NUMBER		DOC TYPE		DOC PART	REVISION	
	1 PLACE		±							SD-87833-0001		PSD		001	A15	
	0 PLACES		±							MATERIAL NUMBER		CUSTOMER			SHEET NUMBER	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING						SERIES		SEE TABLE		GENERAL MARKET		
				A3-SIZE		87833				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	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								3.18					
	87833-5321	N.A	N.A	N.A	3																	
	87833-1436	N.A	N.A	N.A	3													YES	N.A	YES	YES	3.50
	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								3.18					
	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								2.00					
	87833-2436	N.A	N.A	N.A	3	YES	N.A	YES	YES								3.50					
	87833-6920	N.A	N.A	N.A	2	YES	N.A	YES	YES								3.27					

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.

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	CURRENT REV DESC: Adding New Part Numbers	
	STATUS: Production	
	DRWN: Meghraj Boodagatti	
	CHK'D: Meghraj Boodagatti	
	APPR: Saravanakumar Murugesan	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
	THIRD ANGLE PROJECTION	
	DRAWING	
	SERIES	
DOCUMENT NUMBER		
CUSTOMER		
SHEET NUMBER		

FORMAT: TC-001-0003
REVISION: 0
DATE: 2022/06/10

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