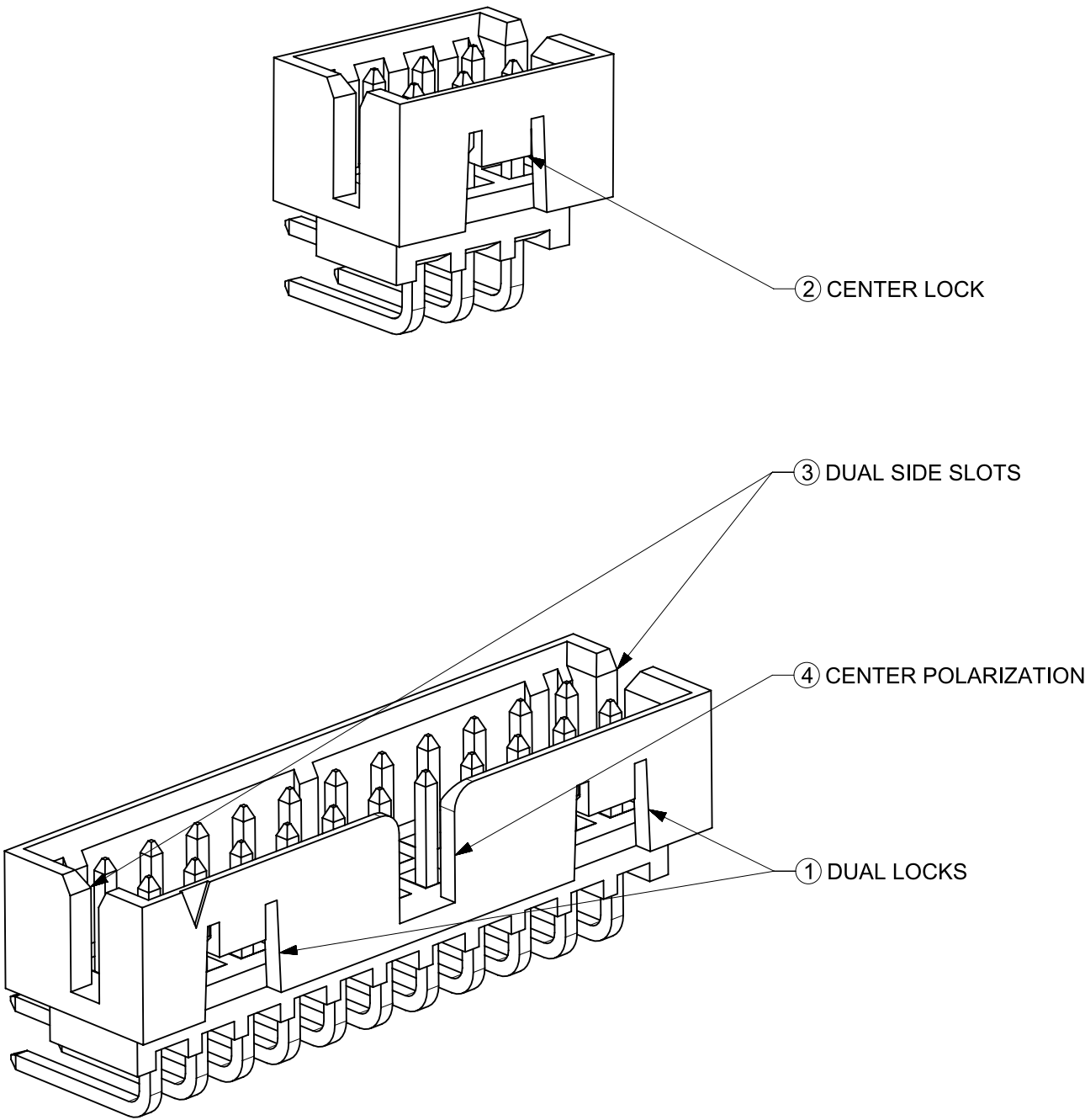


FEATURES SELECTION GUIDE



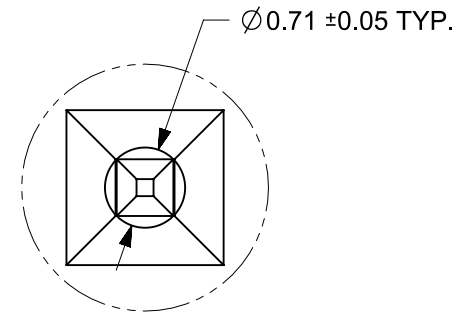
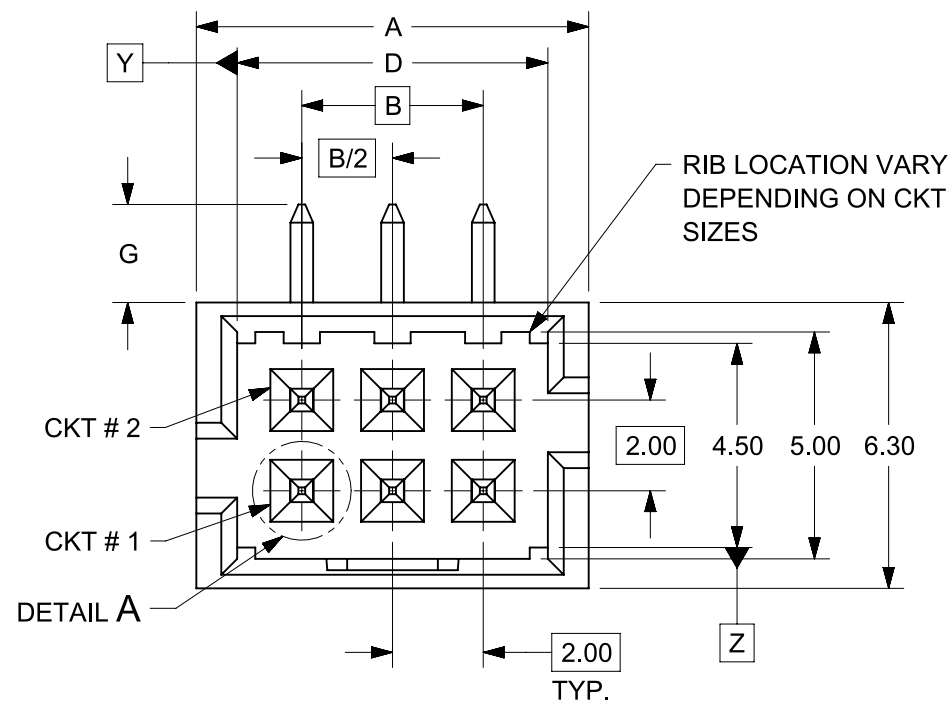
CIRCUIT SIZE	FEATURES				
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	SHEET NO
	① DUAL	② CENTER			
4 TO 6	N.A	N.A	YES	N.A	2 - 3
	N.A	YES	YES	N.A	
8 TO 12	N.A	N.A	YES	YES	4 - 5
	N.A	YES	YES	N.A	
14 TO 50	YES	N.A	YES	YES	6 - 9
	N.A	N.A	YES	YES	

PACKAGING SPECIFICATION TABLE

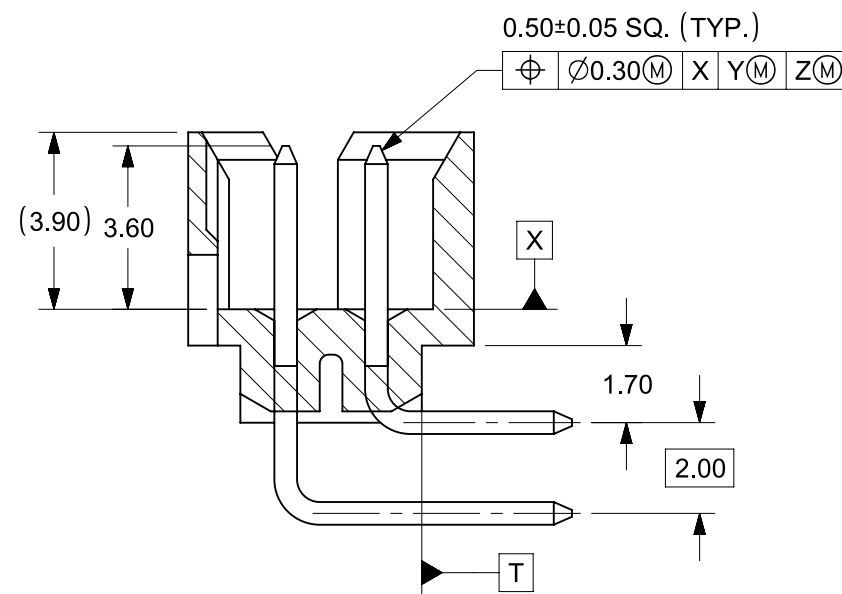
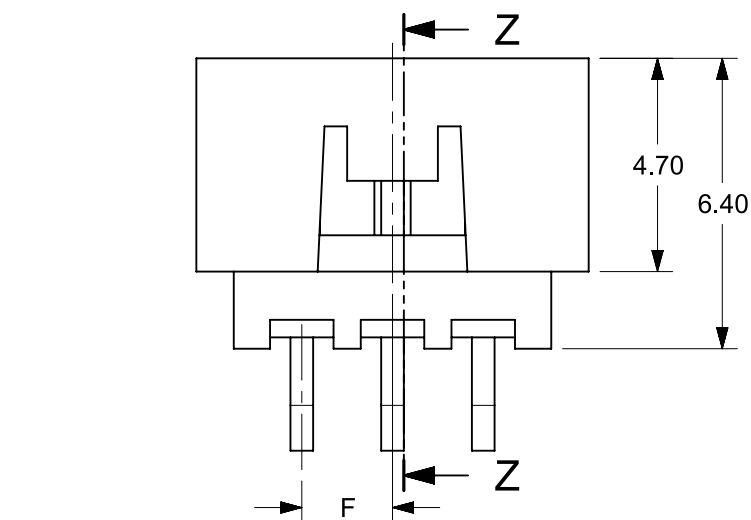
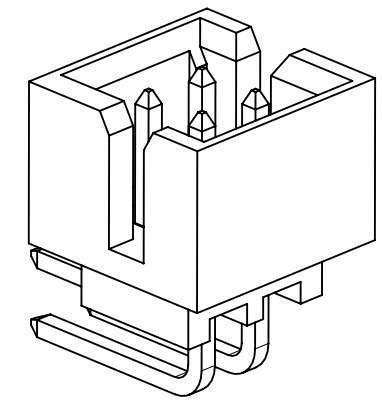
TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87833-0861 87833-1420	PK-87831-002

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

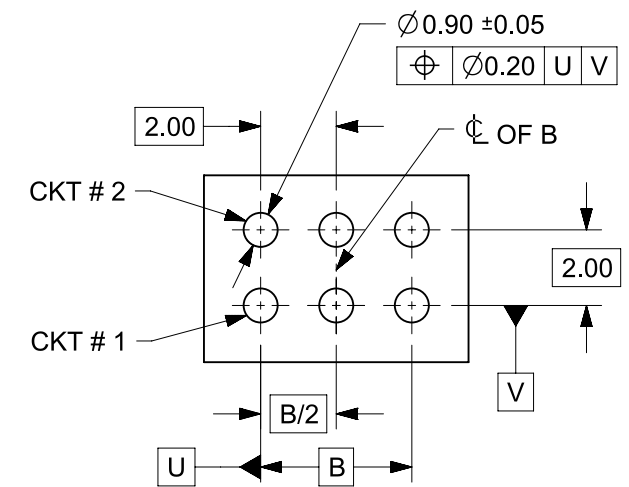
4 TO 6 CIRCUITS



DETAIL A



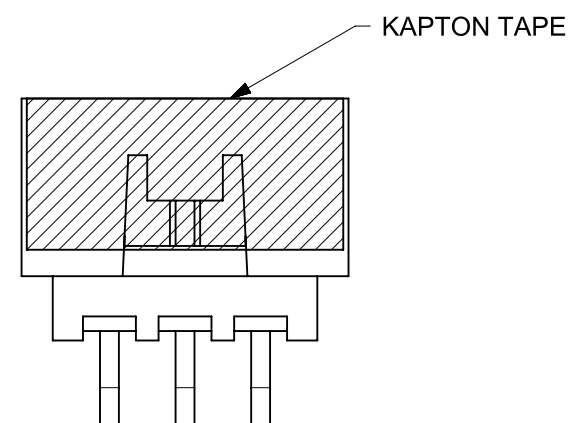
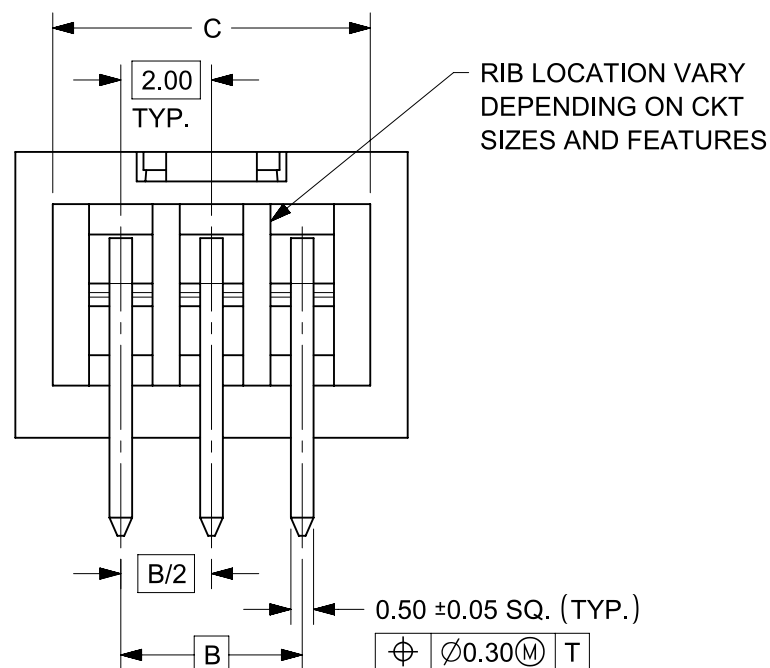
SECTION Z-Z



RECOMMENDED PCB LAYOUT

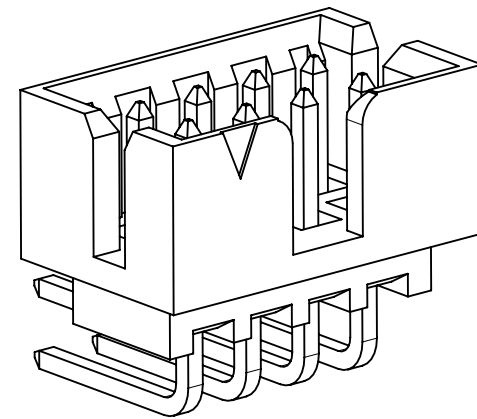
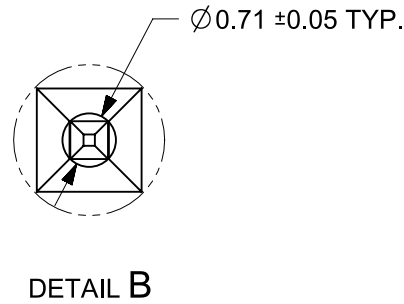
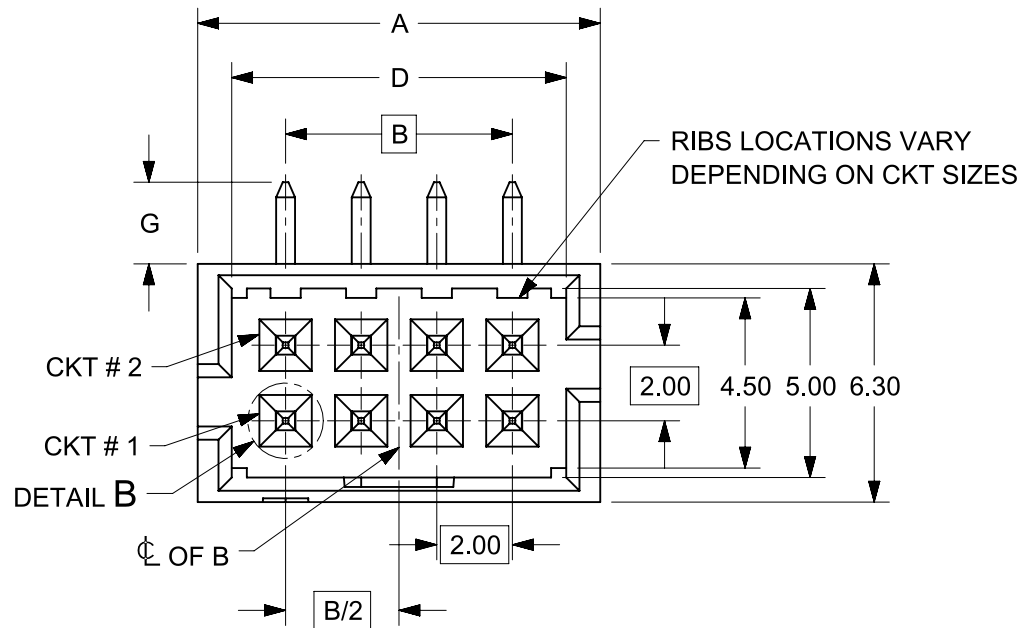
NOTES:

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.

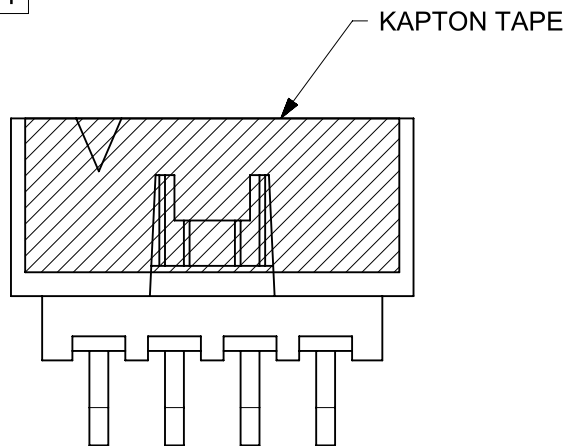
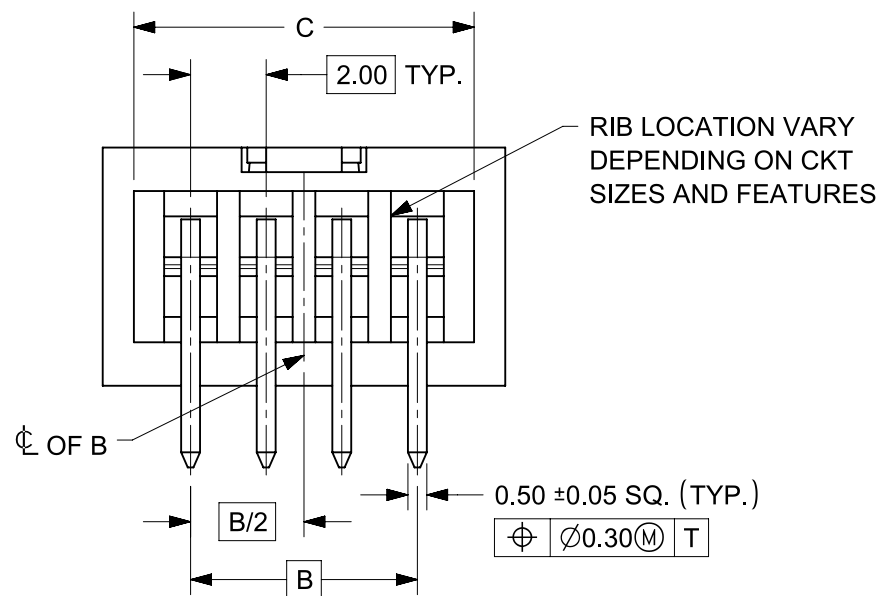
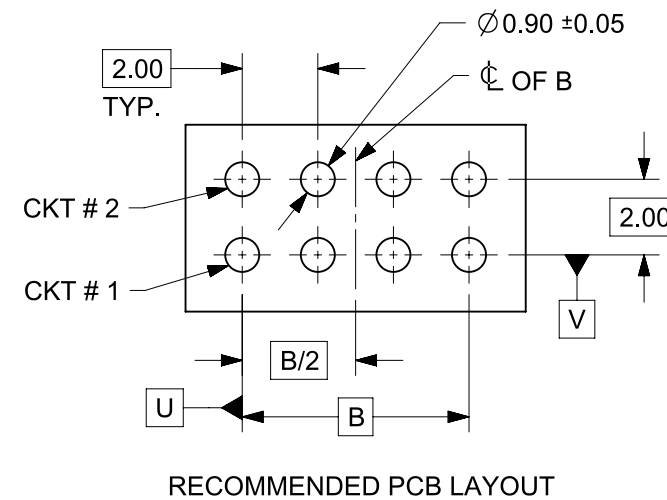
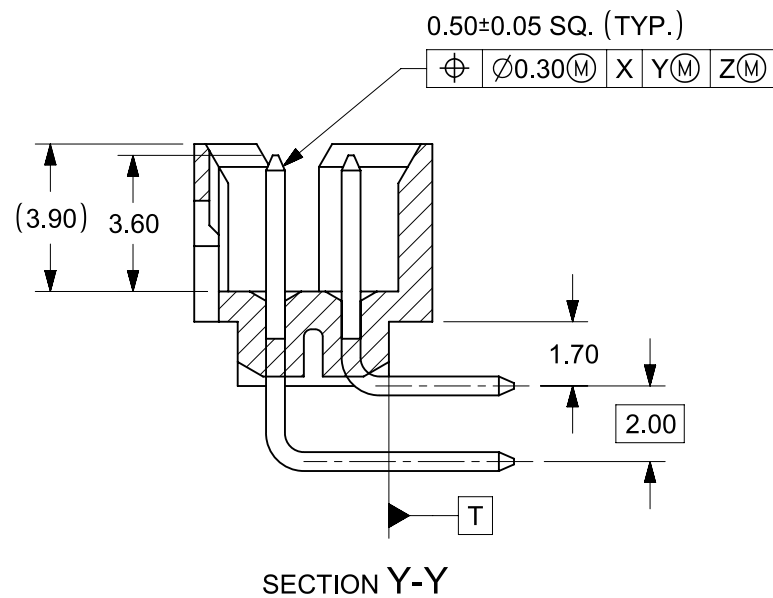
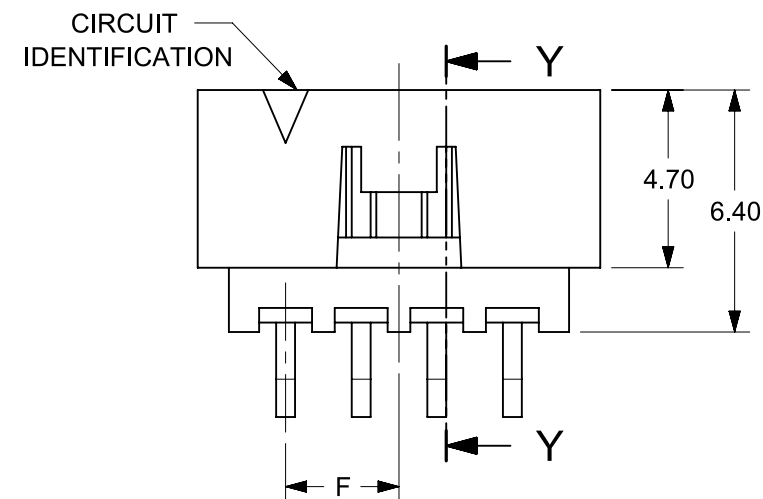


FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
	DIMENSION UNITS		SCALE		CURRENT REV DESC: Adding New Part Numbers			molex		
	mm		5:1							
	GENERAL TOLERANCES (UNLESS SPECIFIED)		MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE							
ANGULAR TOL ± 3°										
4 PLACES ±										
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			PRODUCT CUSTOMER DRAWING				
	2 PLACES ± 0.200					DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
	1 PLACE ±					SD-87833-0001		PSD	001	A15
	0 PLACES ±									
	DRAWING WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER
			A3-SIZE	87833	SEE TABLE	GENERAL MARKET	2 OF 9			

8 TO 12 CIRCUITS



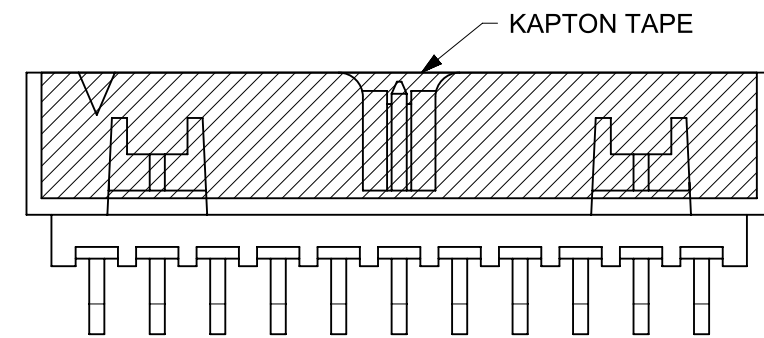
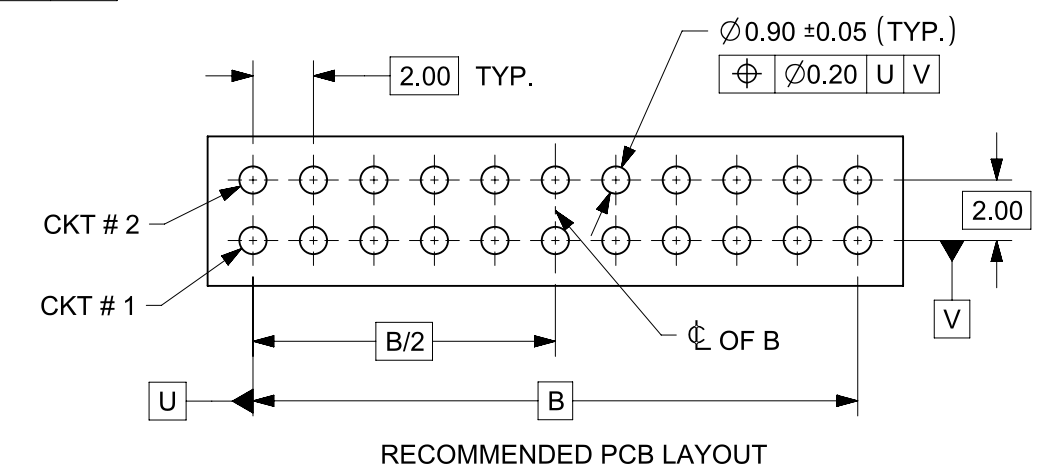
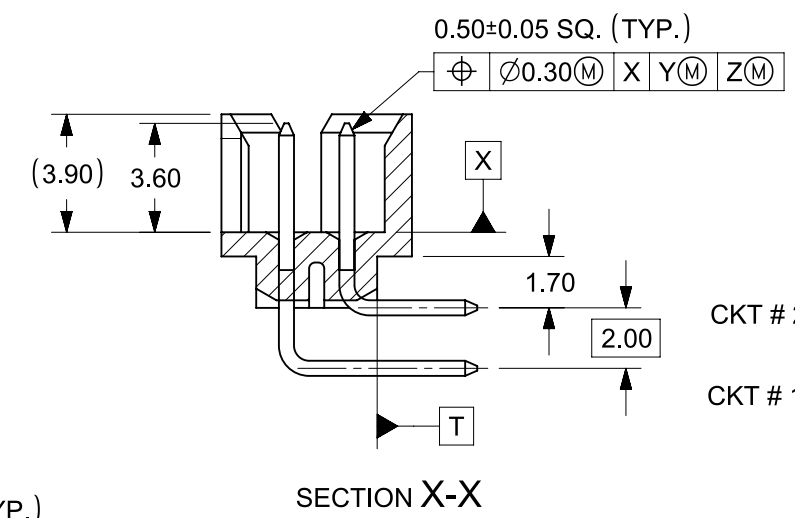
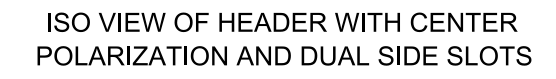
ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



- 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									
	$F_A = 0$		GENERAL TOLERANCES (UNLESS SPECIFIED)				MILLIGRID, 2MM PITCH SHROUDED HEADER R/A, THROUGH HOLE					
	$F_C = 0$											
	$F_P = 0$		ANGULAR TOL ± 3°									
	4 PLACES		±									
	3 PLACES		±		PRODUCT CUSTOMER DRAWING							
	2 PLACES		± 0.200									
	1 PLACE		±									
0 PLACES		±		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION				
DIVISIONAL SYMBOLS		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER		
						A3-SIZE	87833	SEE TABLE	GENERAL MARKET	4 OF 9		
				STATUS: Production		2026-06-03		SD-87833-0001		PSD	001	A15
				DRWN: Meghraj Boodagatti		2026-06-10						
		CHK'D: Meghraj Boodagatti		2026-06-10								
		APPR: Saravanakumar Murugesan		2026-06-10								

DETAIL C



- | | | | | | | | | | | |
|--|---|------------------------|------------|--------|---|--|----------------|---|--------------|--|
| 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 | | | <div>molex</div> <div>MILLIGRID, 2MM PITCH</div> <div>SHROUDED HEADER R/A, THROUGH HOLE</div> | | |
| | mm | | 5:1 | | | | | | | |
| | GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | | | | | | |
| | ANGULAR TOL ± 3° | | | | | | | | | |
| | 4 PLACES | | ± | | PRODUCT CUSTOMER DRAWING | | | | | |
| | 3 PLACES | | ± | | | | | | | |
| | 2 PLACES ± 0.200 | | | | | | | | | |
| | 1 PLACE ± | | 1 PLACE ± | | DOCUMENT NUMBER | | DOC TYPE | DOC PART | REVISION | |
| | 0 PLACES ± | | 0 PLACES ± | | SD-87833-0001 | | PSD | 001 | A15 | |
| 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	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											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																																													
<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>DIMENSION UNITS</td><td>SCALE</td></tr><tr><td>mm</td><td>1:1</td></tr><tr><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td></tr><tr><td>ANGULAR TOL</td><td>± 3°</td></tr><tr><td>4 PLACES</td><td>±</td></tr><tr><td>3 PLACES</td><td>±</td></tr><tr><td>2 PLACES</td><td>± 0.200</td></tr><tr><td>1 PLACE</td><td>±</td></tr><tr><td>0 PLACES</td><td>±</td></tr><tr><td rowspan="10">DIVISIONAL SYMBOLS</td><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td></tr><tr><td colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td>DRAWING</td><td>SERIES</td></tr><tr><td>A3-SIZE</td><td>87833</td></tr><tr><td colspan="2">MATERIAL NUMBER</td></tr><tr><td colspan="2">CUSTOMER</td></tr><tr><td colspan="2">SHEET NUMBER</td></tr><tr><td colspan="2">SEE TABLE</td></tr><tr><td colspan="2">GENERAL MARKET</td></tr><tr><td colspan="2">7 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	mm	1:1	GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL	± 3°	4 PLACES	±	3 PLACES	±	2 PLACES	± 0.200	1 PLACE	±	0 PLACES	±	DIVISIONAL SYMBOLS	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING	SERIES	A3-SIZE	87833	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		SEE TABLE		GENERAL MARKET		7 OF 9	
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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