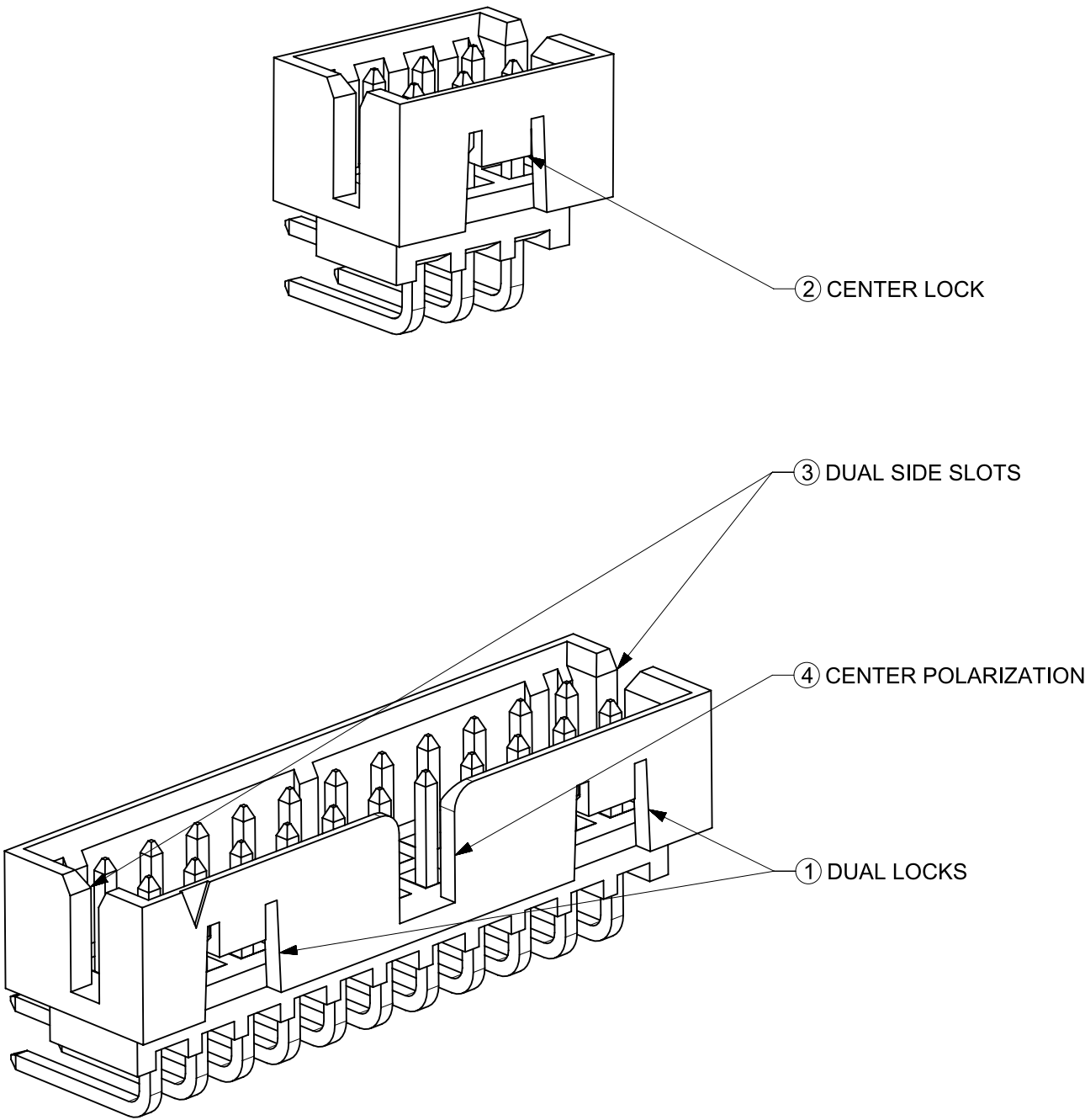


FEATURES SELECTION GUIDE



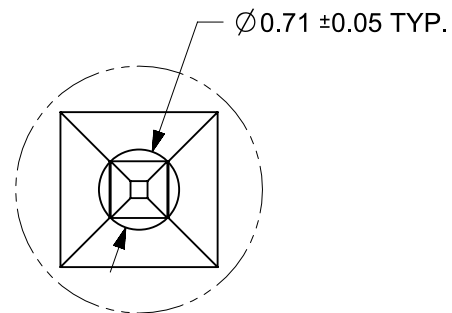
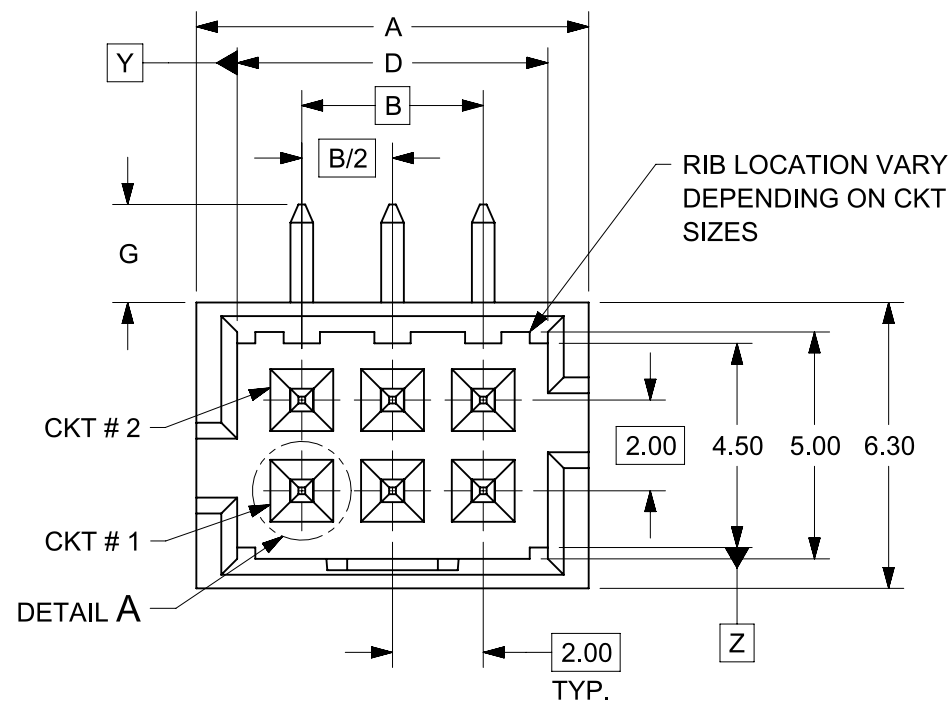
CIRCUIT SIZE	FEATURES				
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	SHEET NO
	① DUAL	② CENTER			
4 TO 6	N.A	N.A	YES	N.A	2 - 3
	N.A	YES	YES	N.A	
8 TO 12	N.A	N.A	YES	YES	4 - 5
	N.A	YES	YES	N.A	
14 TO 50	YES	N.A	YES	YES	6 - 9
	N.A	N.A	YES	YES	

PACKAGING SPECIFICATION TABLE

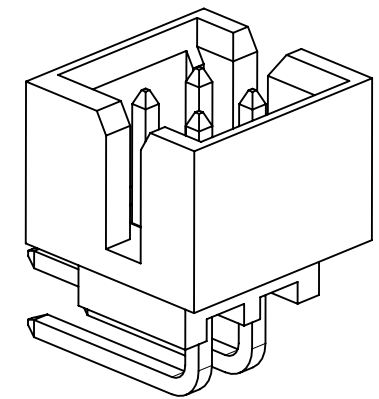
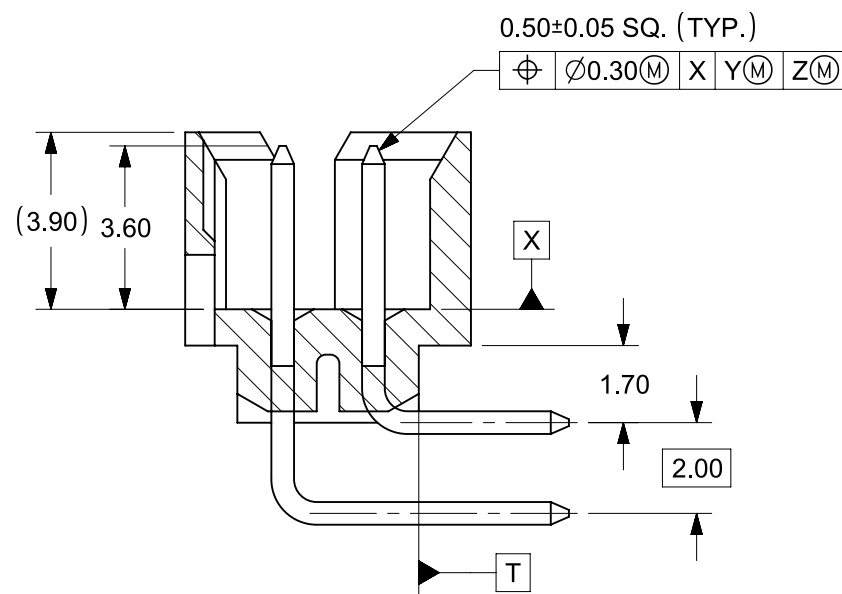
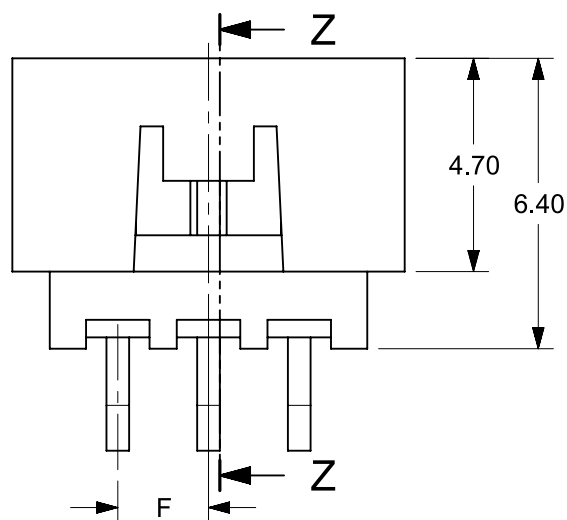
TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87833-0861 87833-1420	PK-87831-002

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

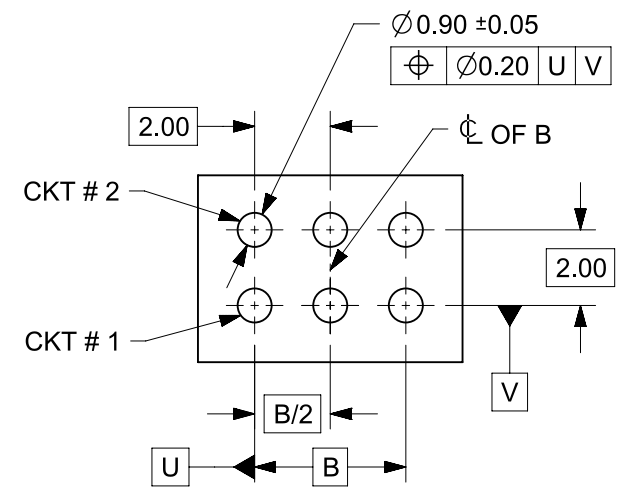
4 TO 6 CIRCUITS



DETAIL A

ISO VIEW OF HEADER
DUAL SIDE SLOTS

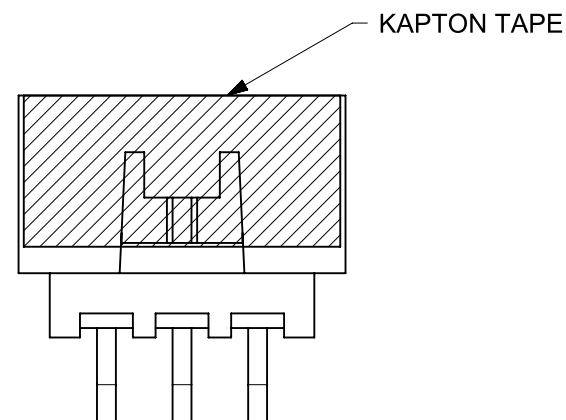
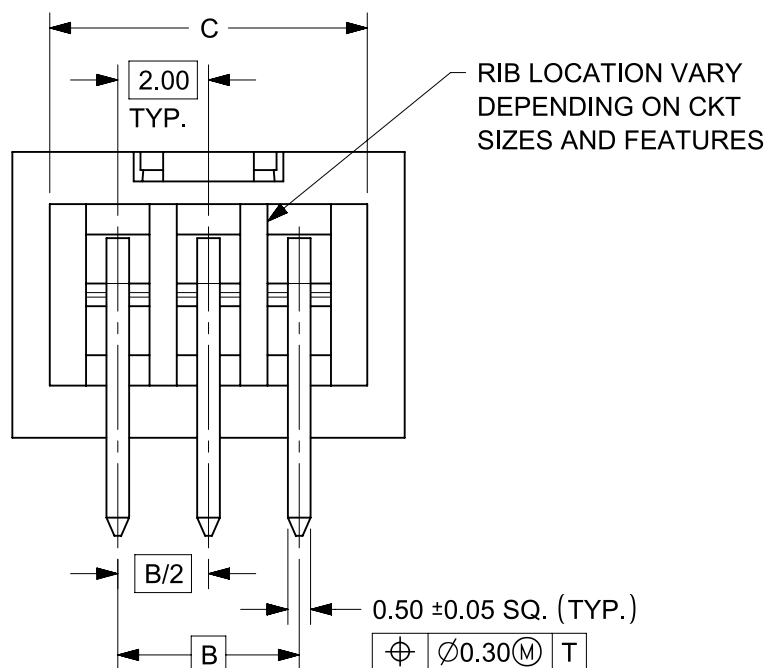
SECTION Z-Z



RECOMMENDED PCB LAYOUT

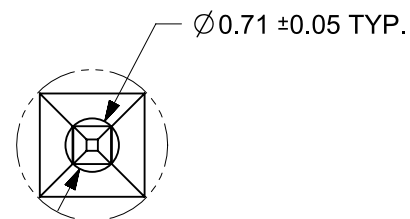
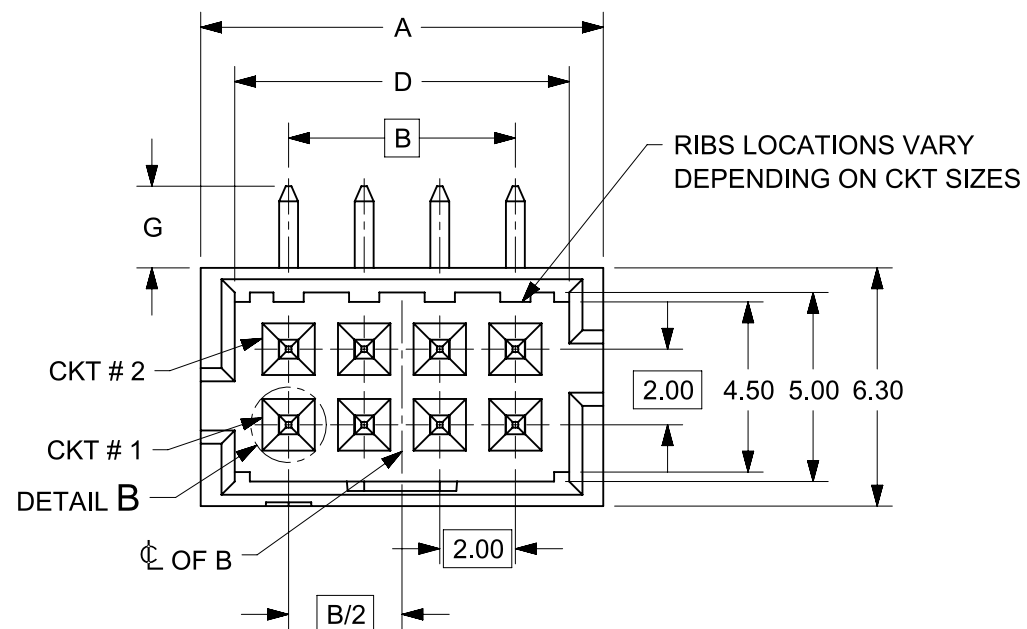
NOTES:

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.

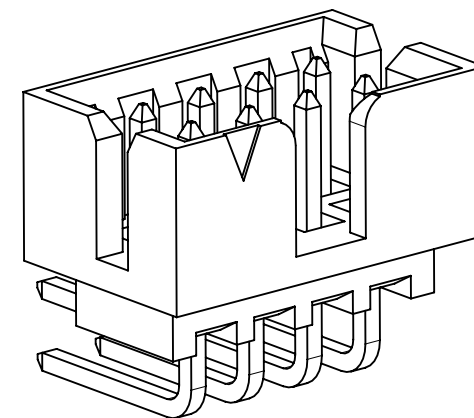


KAPTON TAPE

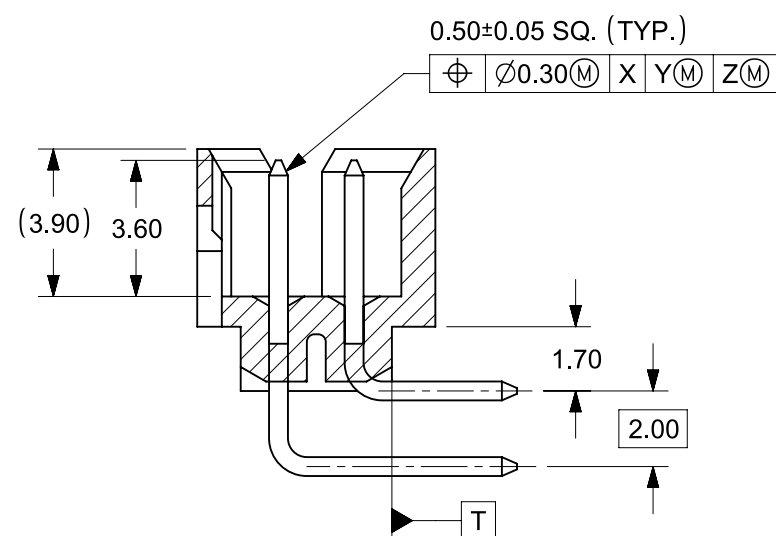
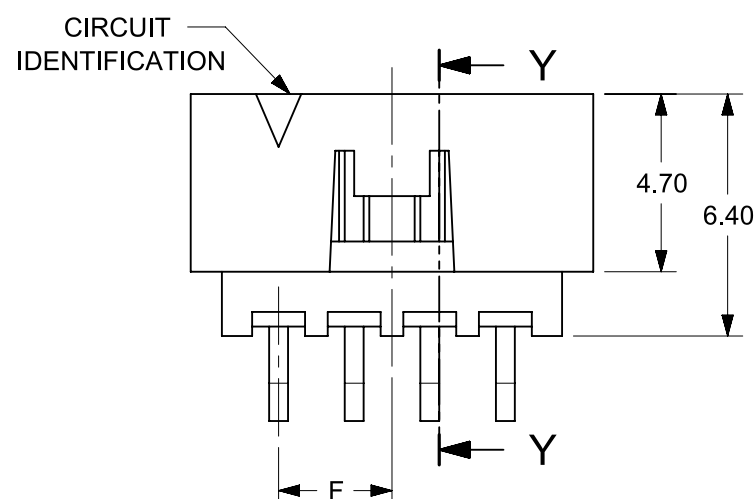
FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	DIMENSION UNITS	SCALE
$\nabla_A = 0$	mm	5:1
$\nabla_C = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)	
$\nabla_P = 0$	ANGULAR TOL ± 3°	
DIVISIONAL SYMBOLS	4 PLACES	±
	3 PLACES	±
	2 PLACES	± 0.200
	1 PLACE	±
	0 PLACES	±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION
STATUS: Production		DRAWING
DRWN: Meghraj Boodagatti		SERIES
CHK'D: Meghraj Boodagatti		2026-06-10
APPR: Saravanakumar Murugesan		2026-06-10
DOCUMENT NUMBER		DOC TYPE
SD-87833-0001		PSD
MATERIAL NUMBER		DOC PART
SEE TABLE		001
CUSTOMER		REVISION
GENERAL MARKET		A15
SHEET NUMBER		2 OF 9



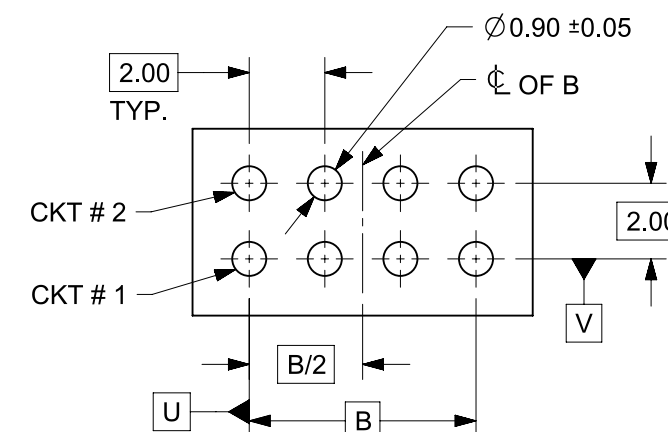
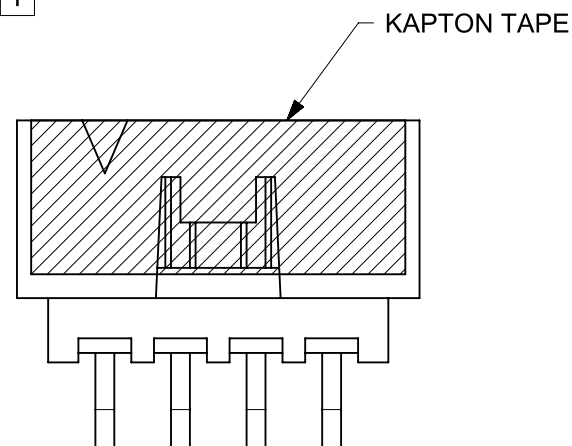
DETAIL B



ISO VIEW OF HEADER WITH CENTER
POLARIZATION AND DUAL SIDE SLOTS



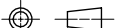
SECTION Y-Y



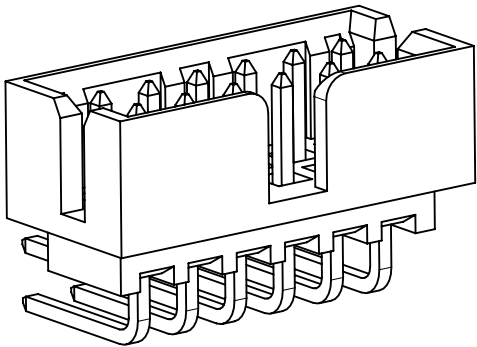
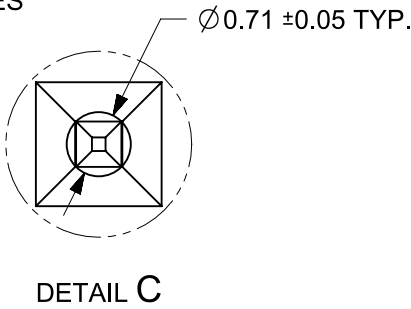
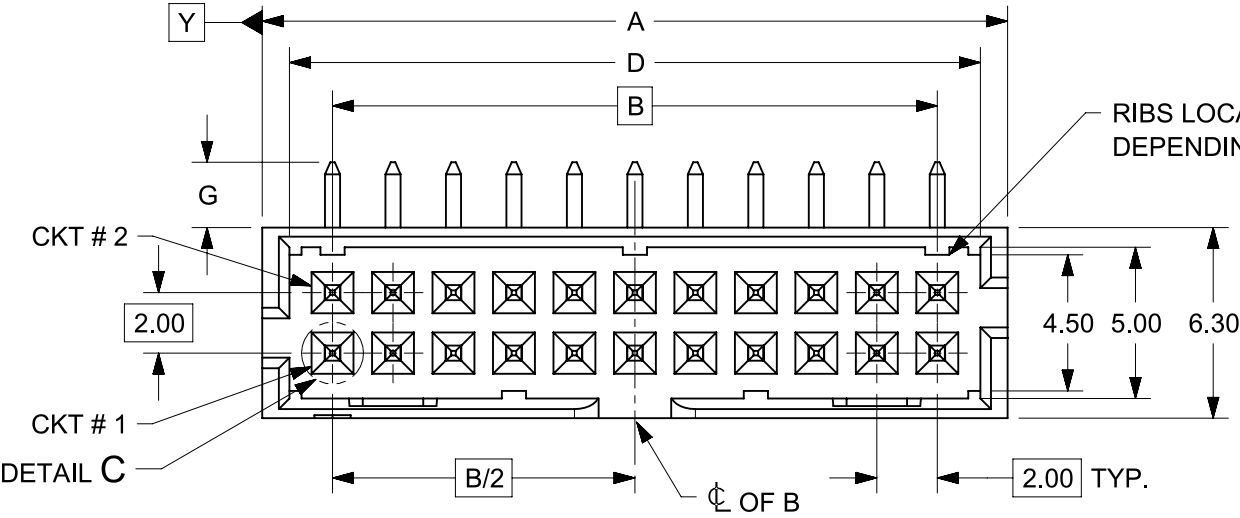
RECOMMENDED PCB LAYOUT

NOTES:

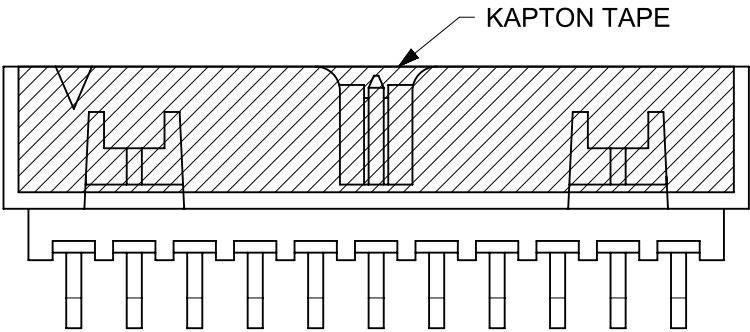
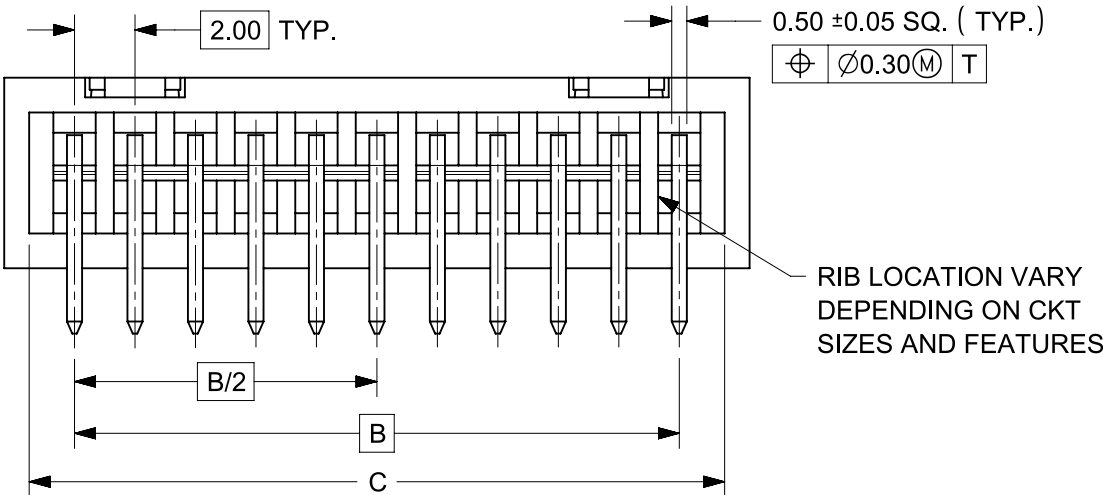
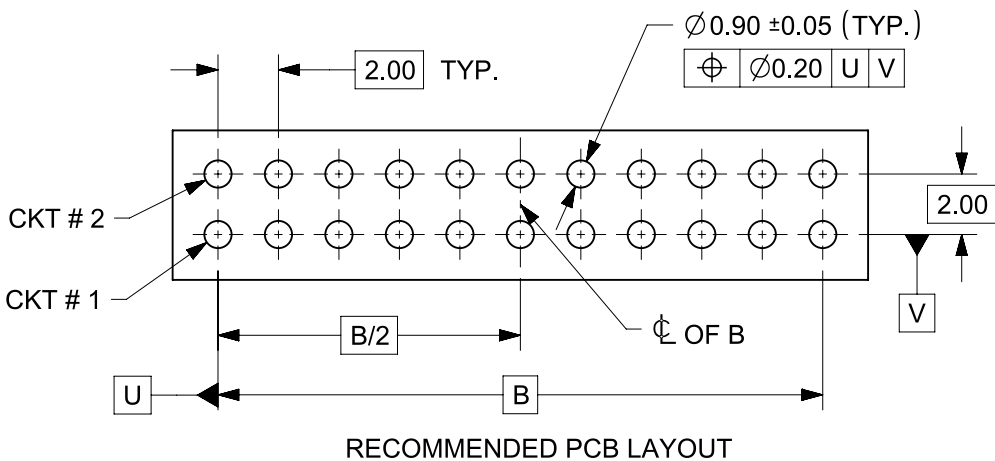
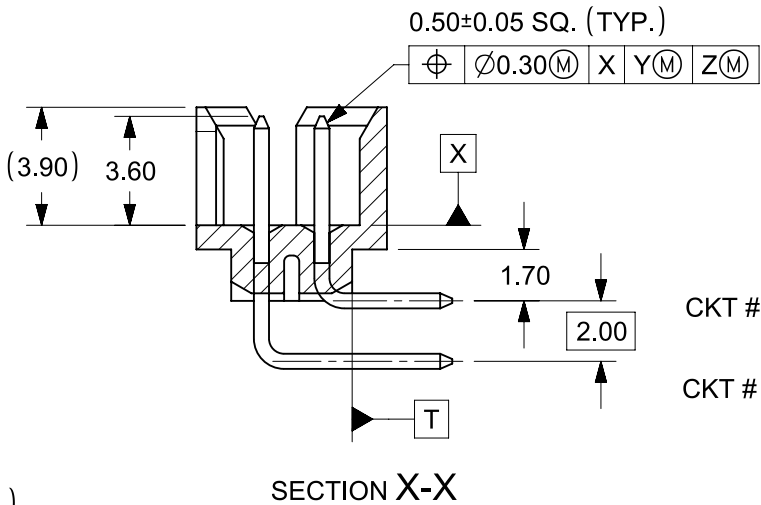
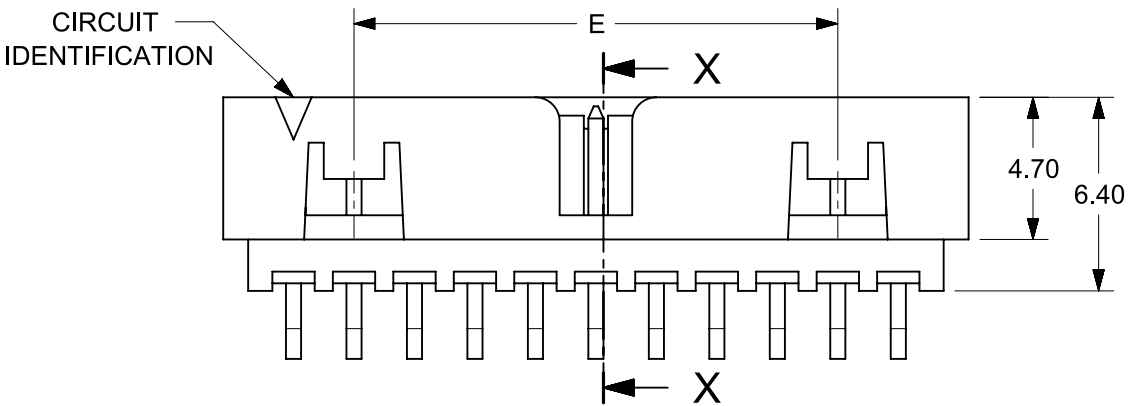
- NOTES:**
- 1. MATERIALS:**
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ. PHOSPHOR BRONZE.
 - 2. FINISHES:** REFER TO PLATING OPTIONS.
 - 3. PRODUCT SPECIFICATION:** PS-87831-027
 - 4. PACKAGING SPECIFICATION:** SEE PACKAGING SPECS TABLE ON SHEET 1
 - 5. MATES WITH:** A. MOLEX CRIMP 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 $F_A = 0$ $F_C = 0$ $F_P = 0$ 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							
	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		PRODUCT CUSTOMER DRAWING										
	1 PLACE		±												
	0 PLACES		±		DOCUMENT NUMBER		DOC TYPE		DOC PART	REVISION					
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	

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.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
FUNCTIONAL SYMBOLS	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		±		PRODUCT CUSTOMER DRAWING							
	2 PLACES		± 0.200									
	1 PLACE		±		DOCUMENT NUMBER				DOC TYPE	DOC PART	REVISION	
	0 PLACES		±		SD-87833-0001				PSD	001	A15	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER	
						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							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.																																																	
<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>FC = 0</td></tr><tr><td>FP = 0</td><td></td></tr><tr><td colspan="2">DIVISIONAL SYMBOLS</td></tr><tr><td colspan="2"></td></tr><tr><td colspan="2"></td></tr><tr><td colspan="2"></td></tr><tr><td colspan="2"></td></tr><tr><td colspan="2"></td></tr><tr><td colspan="2"></td></tr><tr><td colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td colspan="2">DRAWING</td></tr><tr><td colspan="2">SERIES</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></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	FC = 0	FP = 0		DIVISIONAL SYMBOLS														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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SERIES																																																	
MATERIAL NUMBER																																																	
CUSTOMER																																																	
SHEET NUMBER																																																	
10	9	8	7	6	5	4	3	2	1																																								

