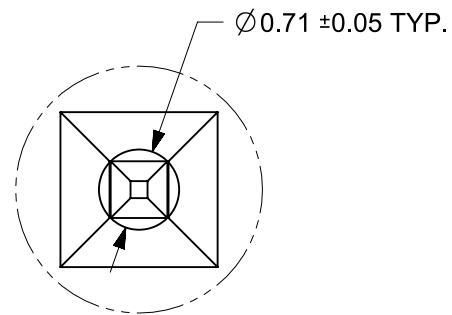
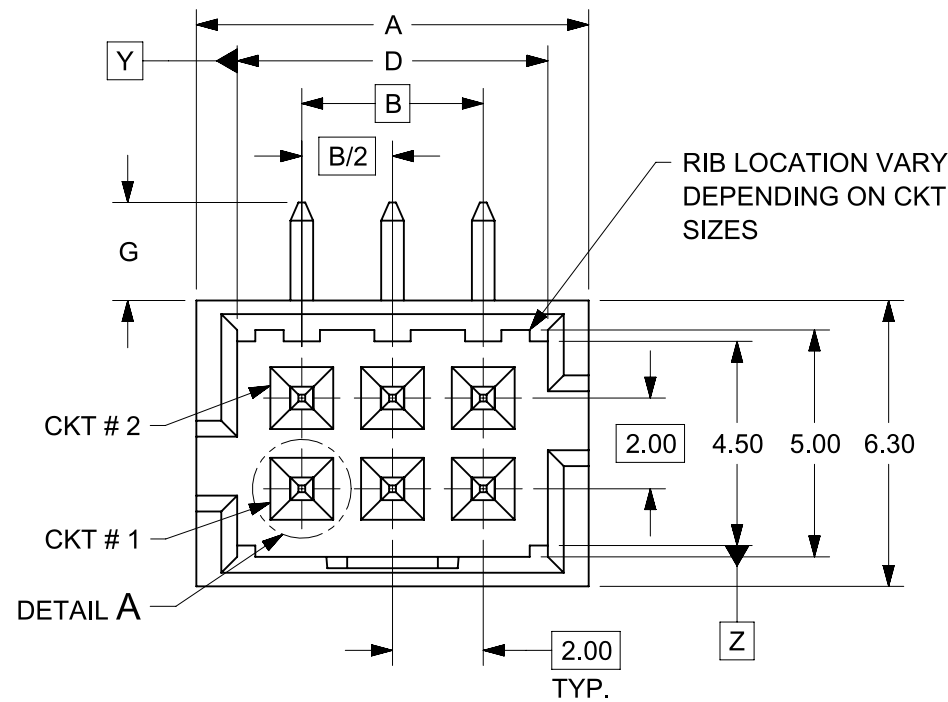
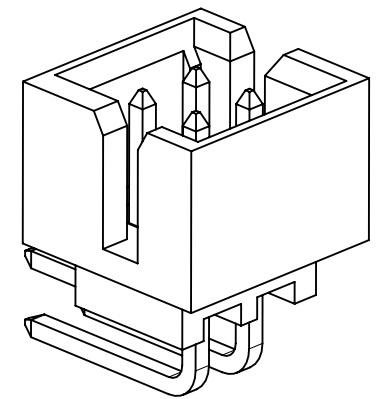


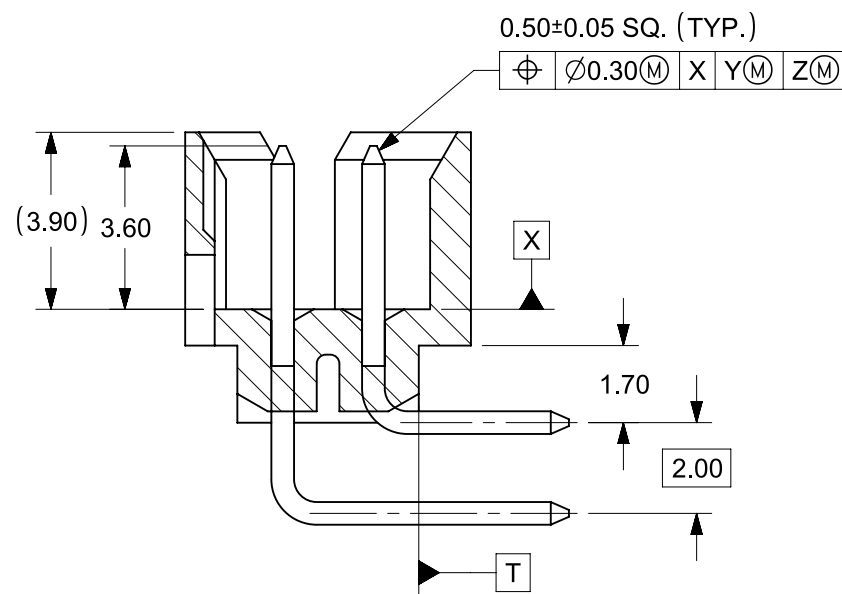
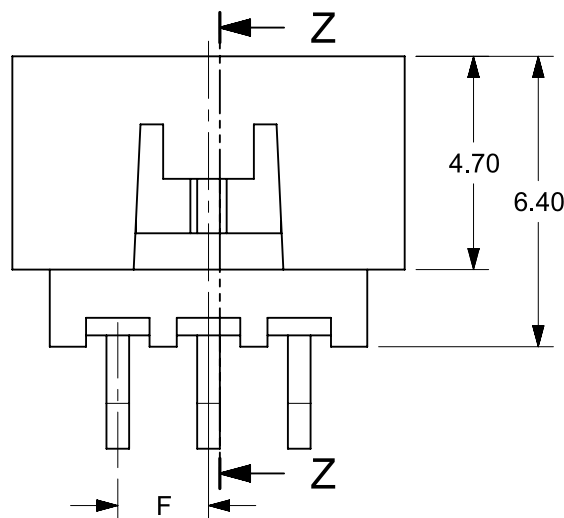
4 TO 6 CIRCUITS



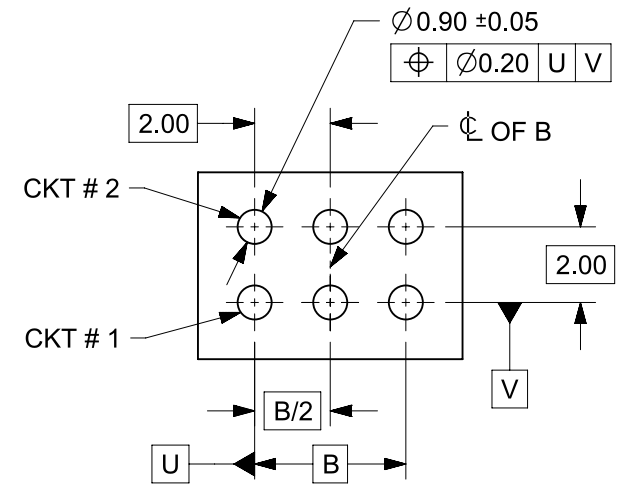
DETAIL A



ISO VIEW OF HEADER
DUAL SIDE SLOTS



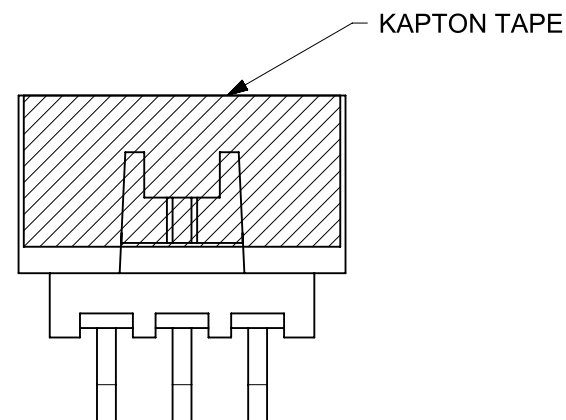
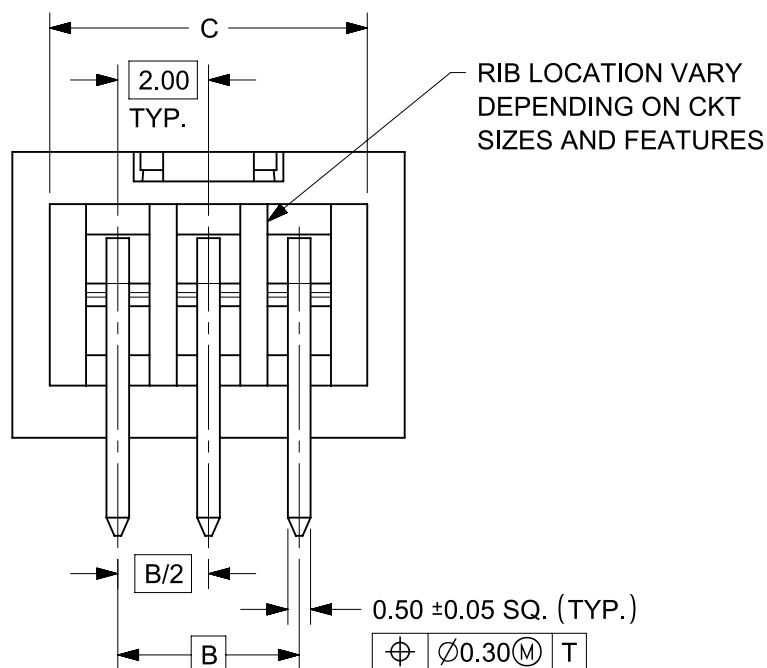
SECTION Z-Z



RECOMMENDED PCB LAYOUT

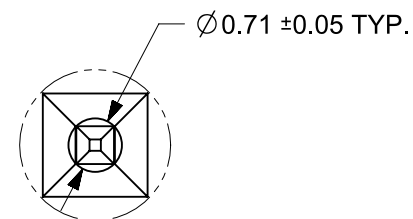
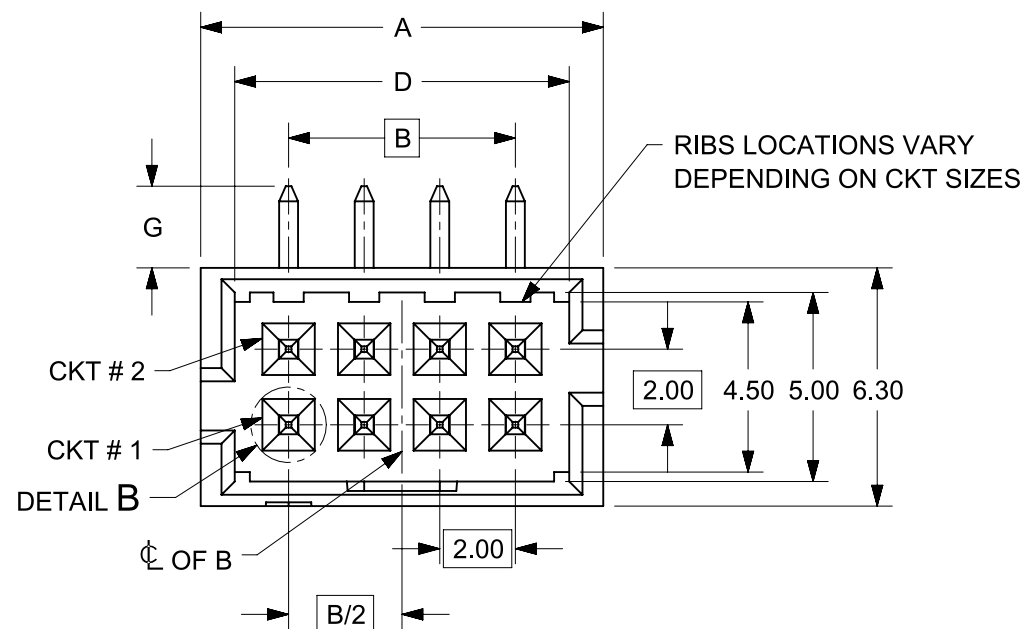
NOTES:

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.

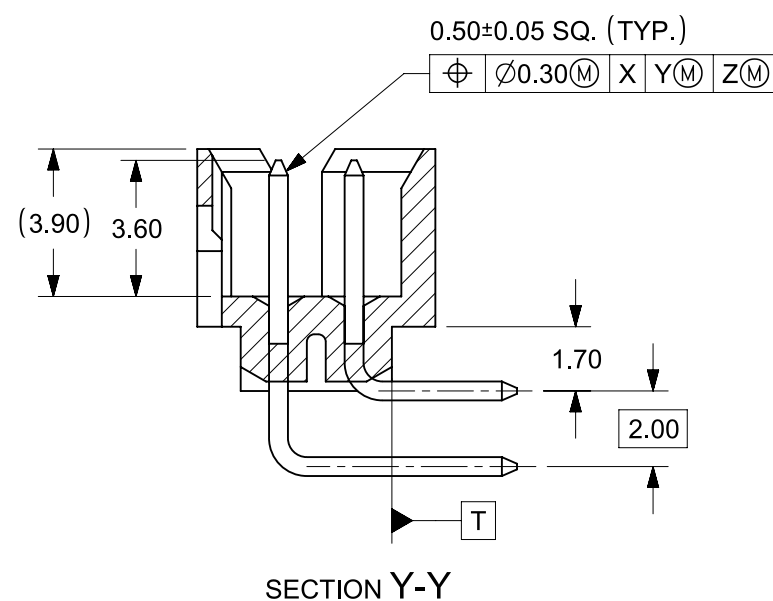
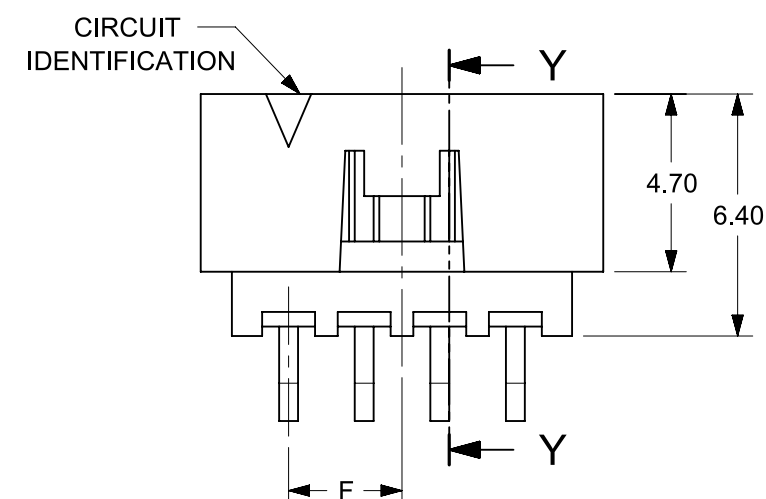
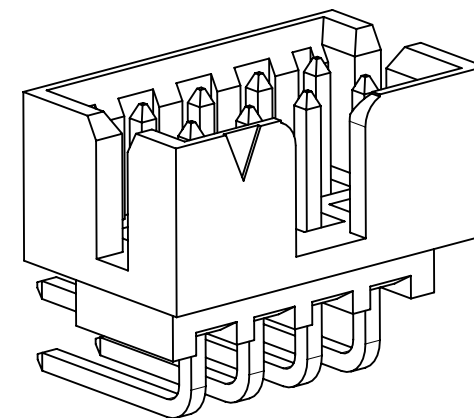


FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: Adding New Part Numbers			
	DIMENSION UNITS	SCALE				
$\nabla_A = 0$	mm	5:1				
$\nabla_C = 0$	GENERAL TOLERANCES (UNLESS 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
			STATUS: Production		DOCUMENT NUMBER	
			DRWN: Meghraj Boodagatti		2026-06-03	
			CHK'D: Meghraj Boodagatti		2026-06-10	
			APPR: Saravanakumar Murugesan		2026-06-10	
			PRODUCT CUSTOMER DRAWING		SHEET NUMBER	
			SD-87833-0001		2 OF 9	
			GENERAL MARKET			

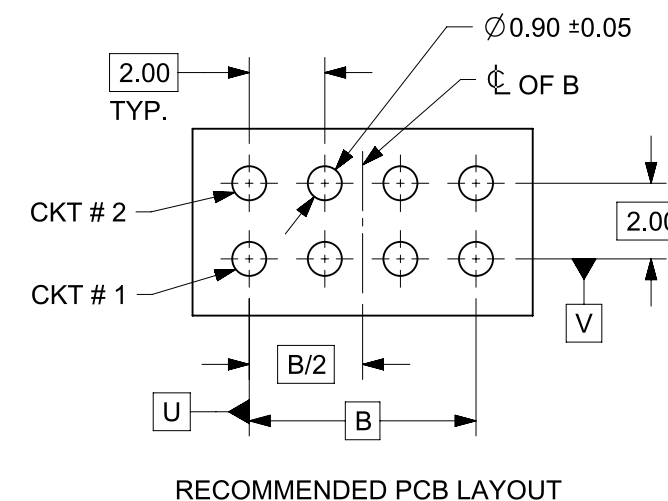
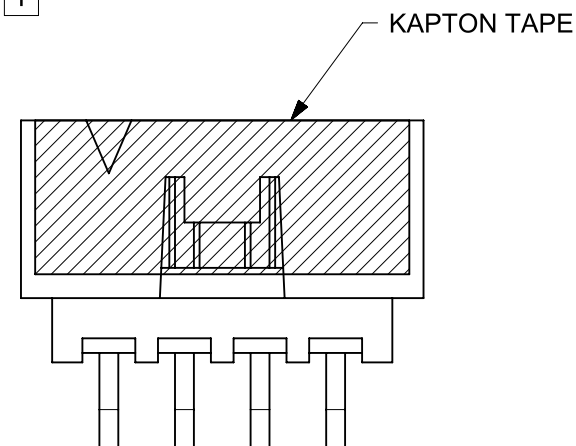
8 TO 12 CIRCUITS



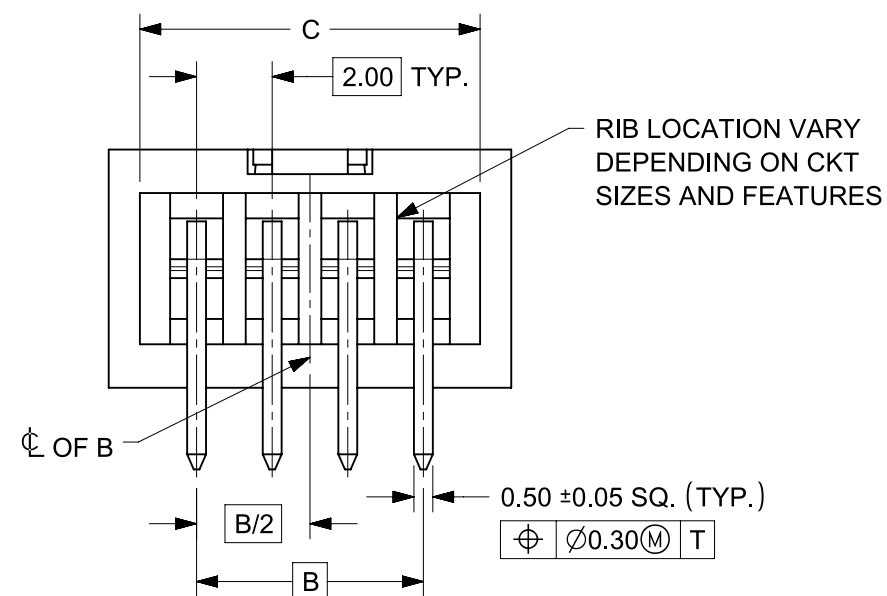
DETAIL B



SECTION Y-Y

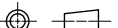


RECOMMENDED PCB LAYOUT

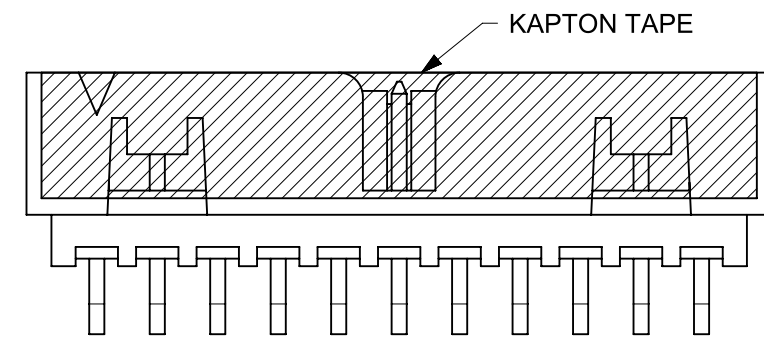
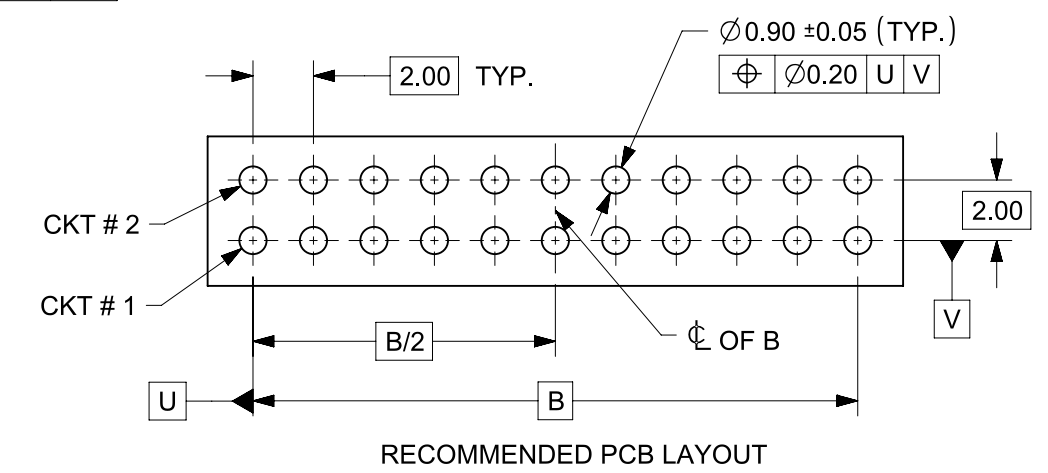
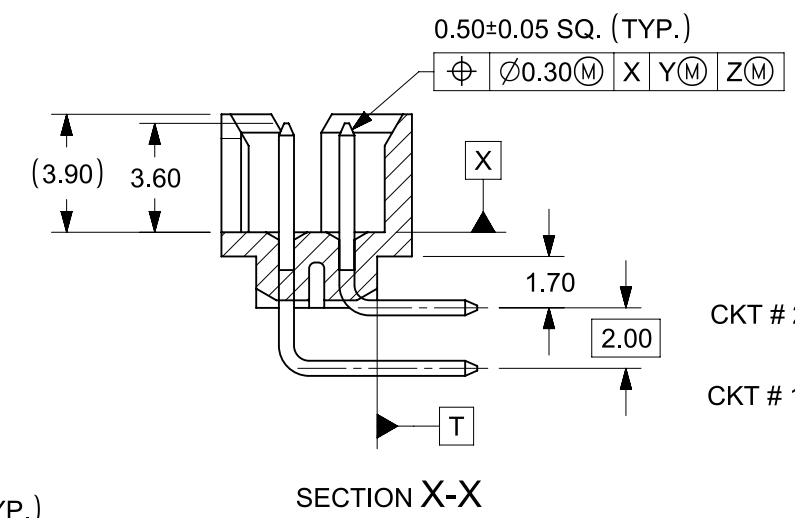
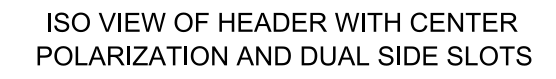


NOTES:

- 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	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'															
DIVISIONAL SYMBOLS	4 PLACES		±		PRODUCT CUSTOMER DRAWING										
	3 PLACES		±												
	2 PLACES		± 0.200												
	1 PLACE		±		STATUS: Production		DRWN: Meghraj Boodagatti 2026-06-03		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION		
	0 PLACES		±		CHK'D: Meghraj Boodagatti 2026-06-10		2026-06-10		SD-87833-0001		PSD	001	A15		
					APPR: Saravanakumar Murugesan 2026-06-10										
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	

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
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
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.

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

THIRD ANGLE PROJECTION

DRAWING

SERIES

87833

STATUS: Production

DRWN: Meghraj Boodagatti

CHK'D: Meghraj Boodagatti

APPR: Saravanakumar Murugesan

2026-06-03

2026-06-10

2026-06-10

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

SD-87833-0001

DOC TYPE

PSD

DOC PART

001

REVISION

A15

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

SHEET NUMBER

7 OF 9

FORMAT: TC-001-0003

REVISION: 0

DATE: 2022/06/01

