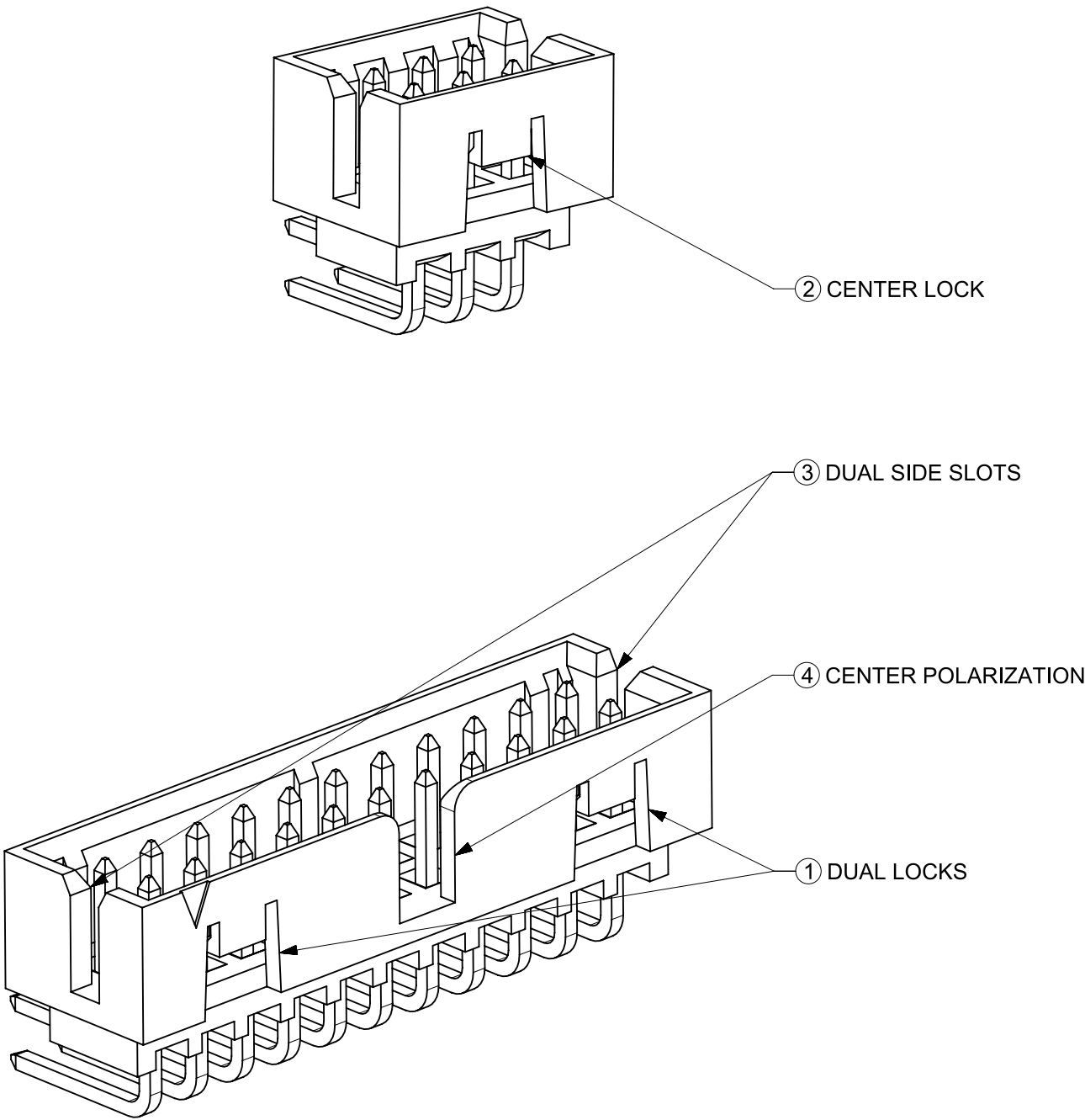


FEATURES SELECTION GUIDE



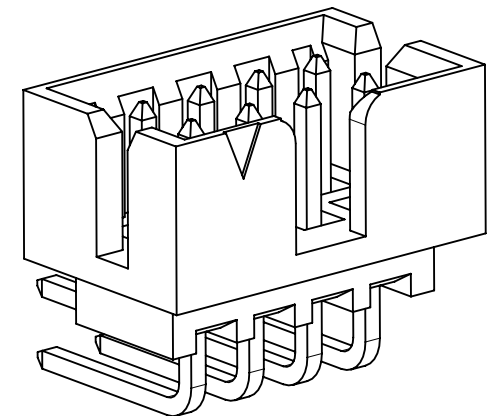
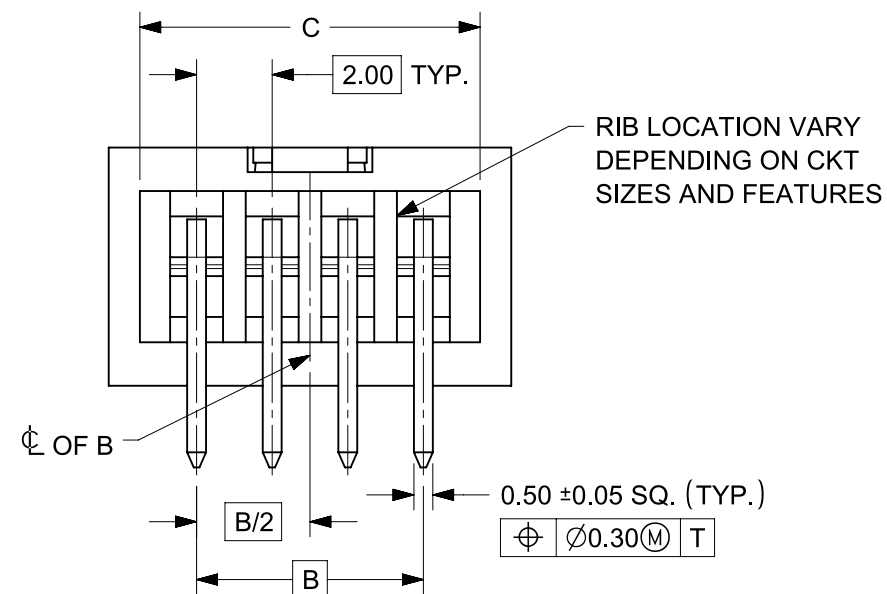
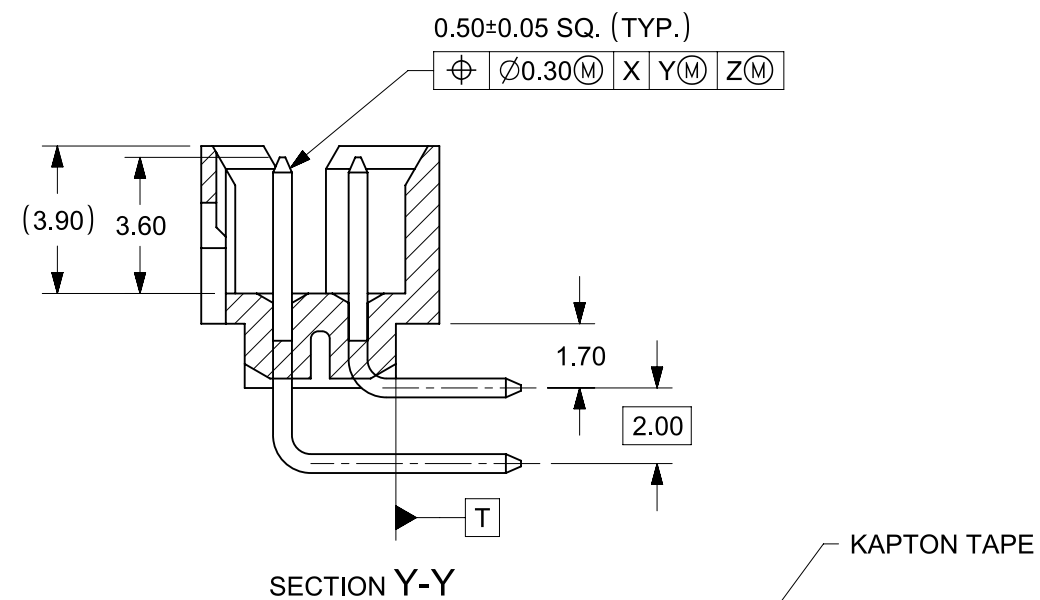
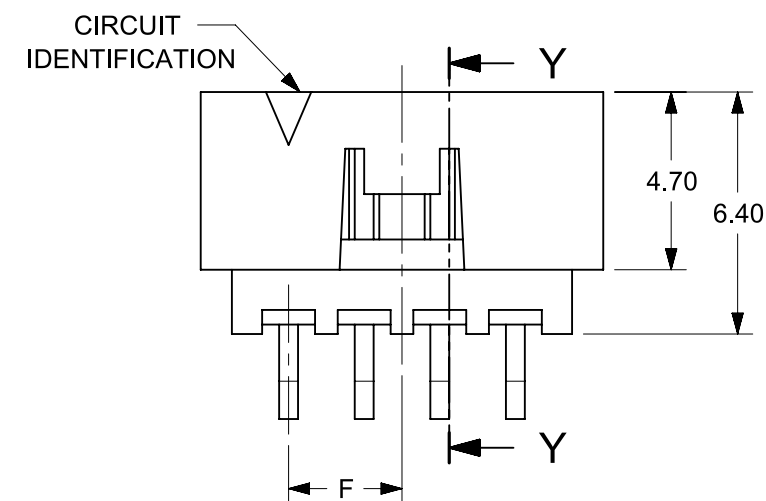
CIRCUIT SIZE	FEATURES				
	FRICTION LOCKS		③ DUAL SIDE SLOTS	④ CENTER POLARIZATION	SHEET NO
	① DUAL	② CENTER			
4 TO 6	N.A	N.A	YES	N.A	2 - 3
	N.A	YES	YES	N.A	
8 TO 12	N.A	N.A	YES	YES	4 - 5
	N.A	YES	YES	N.A	
14 TO 50	YES	N.A	YES	YES	6 - 9
	N.A	N.A	YES	YES	

PACKAGING SPECIFICATION TABLE

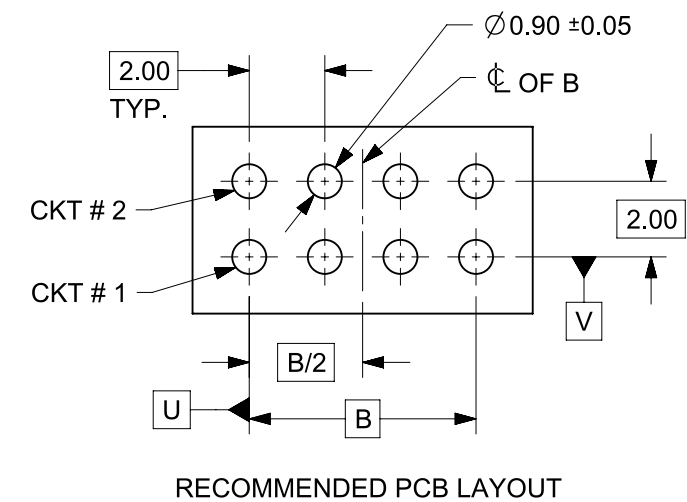
TAPE AND REEL PACKAGING	PK-87831-300
TUBE STANDARD PACKAGING	PK-87831-001
TUBE NON-STANDARD PACKAGING FOR: 87833-0861 87833-1420	PK-87831-002

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

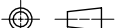
DETAIL B



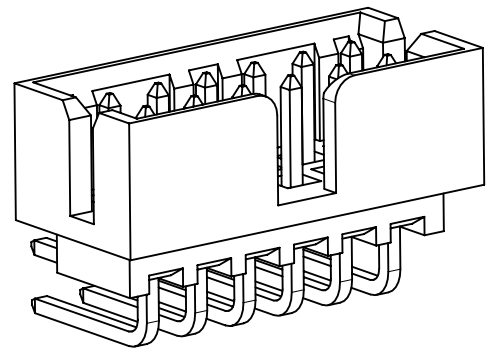
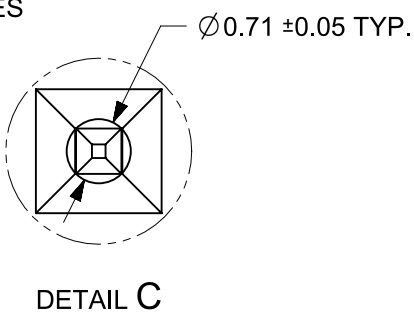
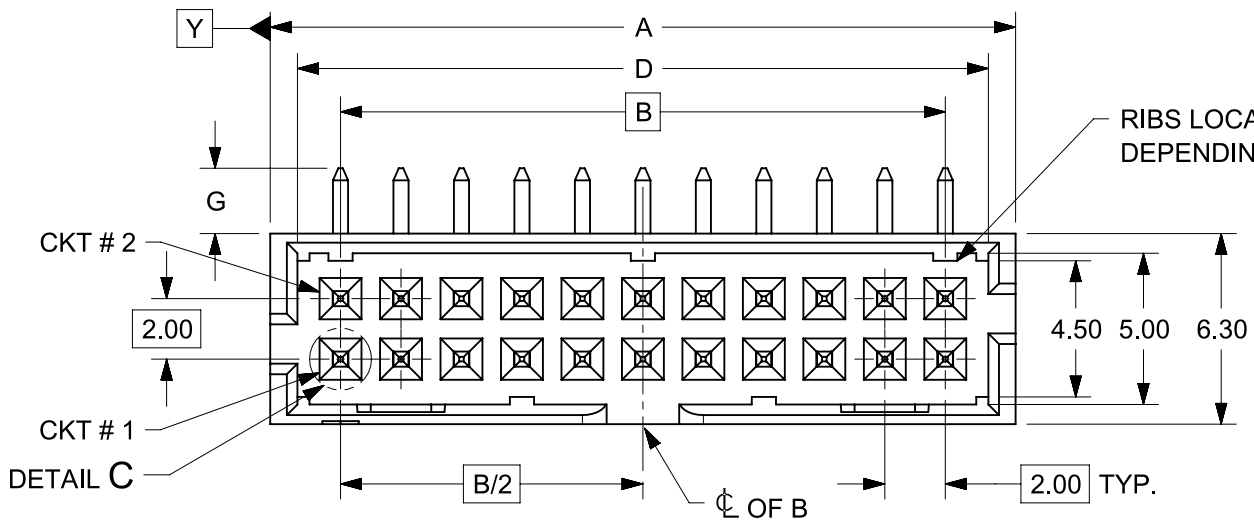
ISO VIEW OF HEADER WITH CENTER
POLARIZATION AND DUAL SIDE SLOTS



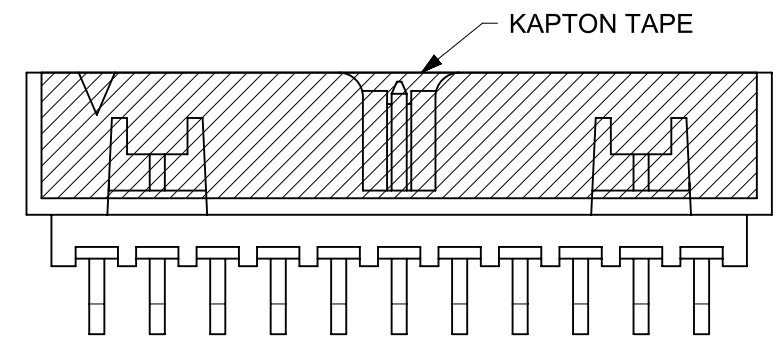
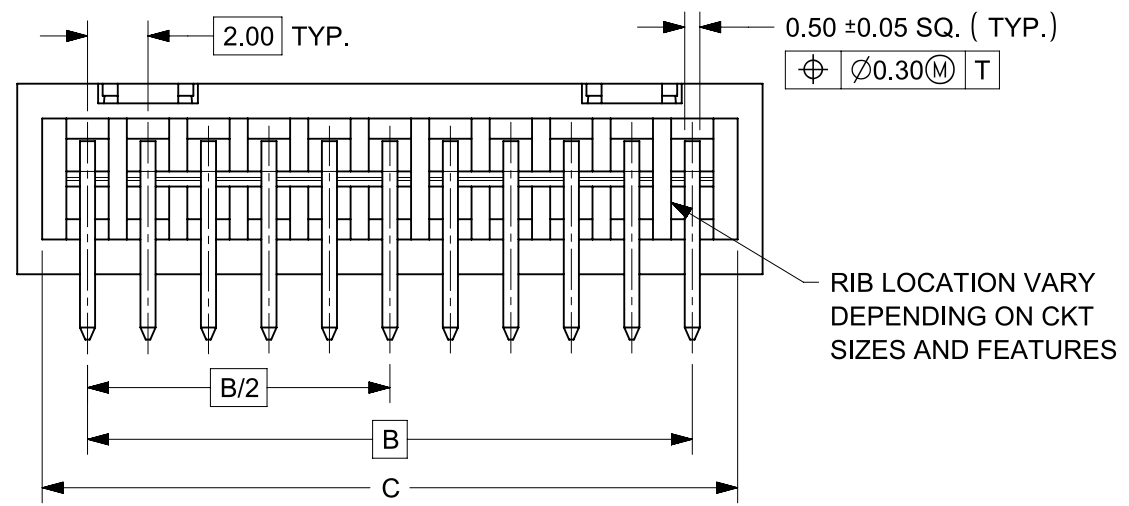
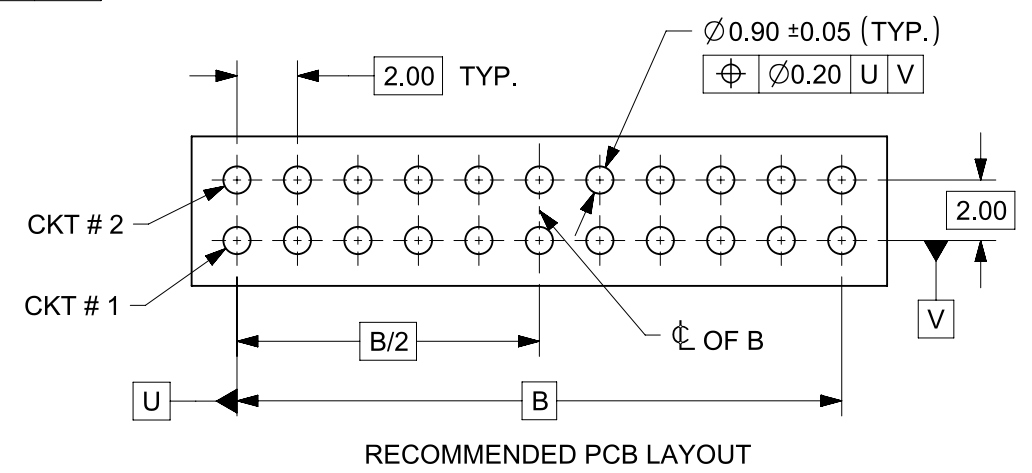
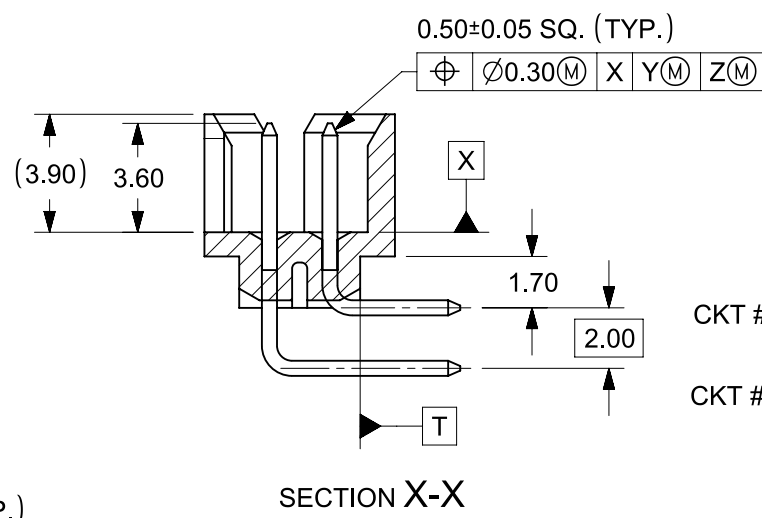
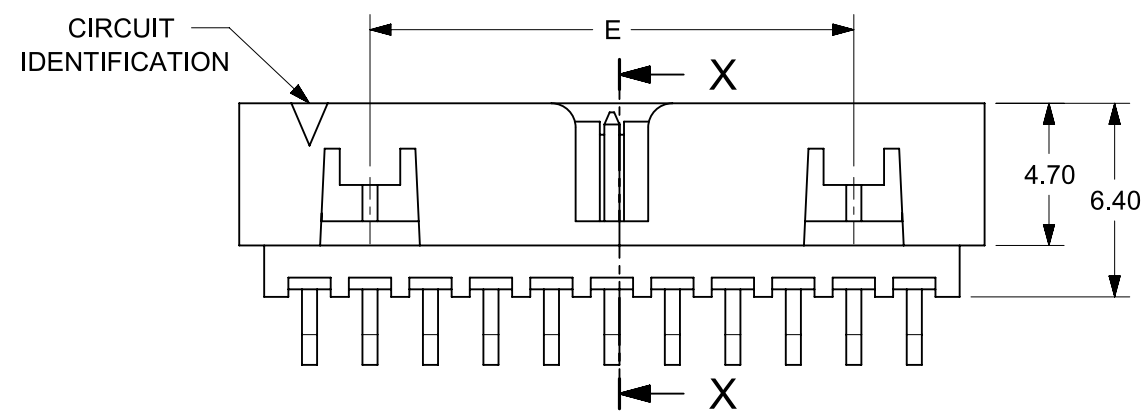
- NOTES:
1. MATERIALS:
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK
PIN: 0.50mm SQ. PHOSPHOR BRONZE.
 2. FINISHES: REFER TO PLATING OPTIONS.
 3. PRODUCT SPECIFICATION: PS-87831-027
 4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
 5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 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	F _A = 0				STATUS: Production DRWN: Meghraj Boodagatti 2026-06-03 CHK'D: Meghraj Boodagatti 2026-06-10 APPR: Saravanakumar Murugesan 2026-06-10			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION					
	F _C = 0							SD-87833-0001		PSD	001	A15					
	F _P = 0																
	4 PLACES ±																
	3 PLACES ±																
	2 PLACES ± 0.200																
1 PLACE ±				THIRD ANGLE PROJECTION			DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		
0 PLACES ±							A3-SIZE		87833		SEE TABLE		GENERAL MARKET		4 OF 9		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																	

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											
F_A = 0 F_C = 0 F_P = 0 DIVISIONAL SYMBOLS	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		±									
	2 PLACES		± 0.200									
	1 PLACE		±									
0 PLACES		±		STATUS: Production			PRODUCT CUSTOMER DRAWING					
DRWN: Meghraj Boodagatti 2026-06-03					DOCUMENT NUMBER			DOC TYPE		DOC PART	REVISION	
CHK'D: Meghraj Boodagatti 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		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.

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

7 OF 9

FORMAT: TC-001-000-003

REVISION: 0

DATE: 2022/08/01

