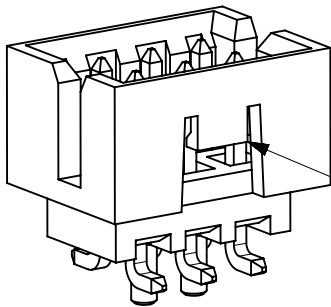
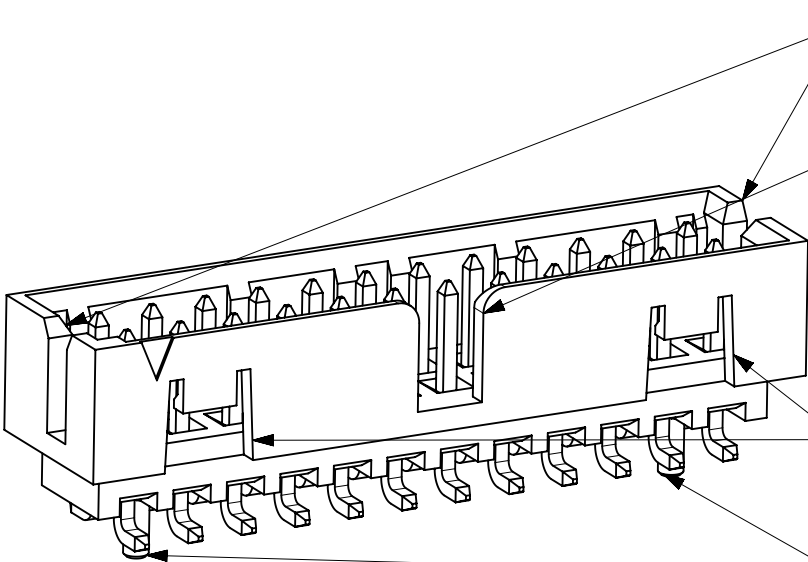


FEATURES SELECTION GUIDE



2 CENTER LOCK



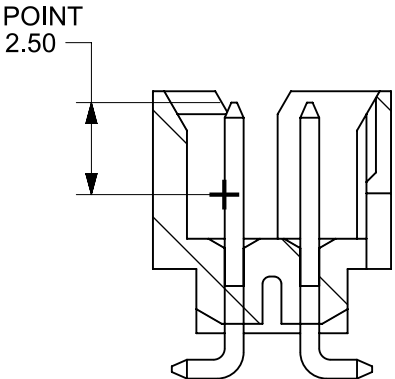
3 DUAL SIDE SLOTS

4 CENTER POLARIZATION

1 DUAL LOCKS

5 PEGS

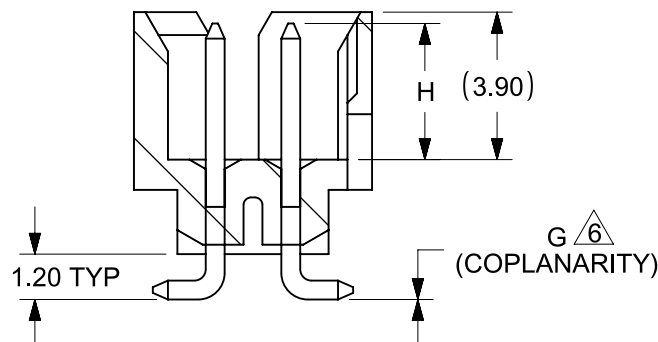
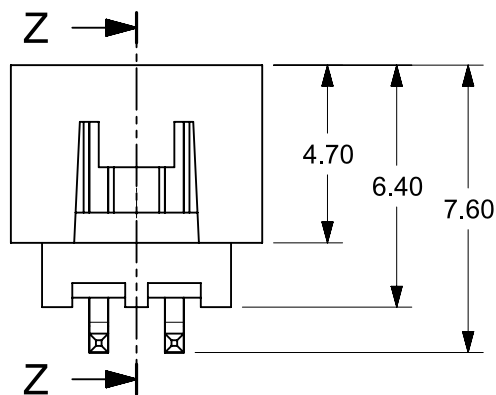
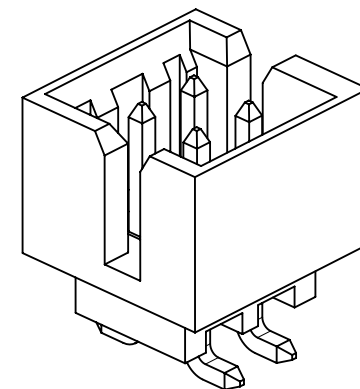
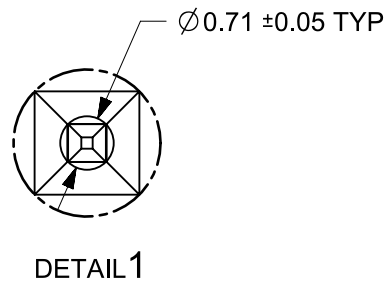
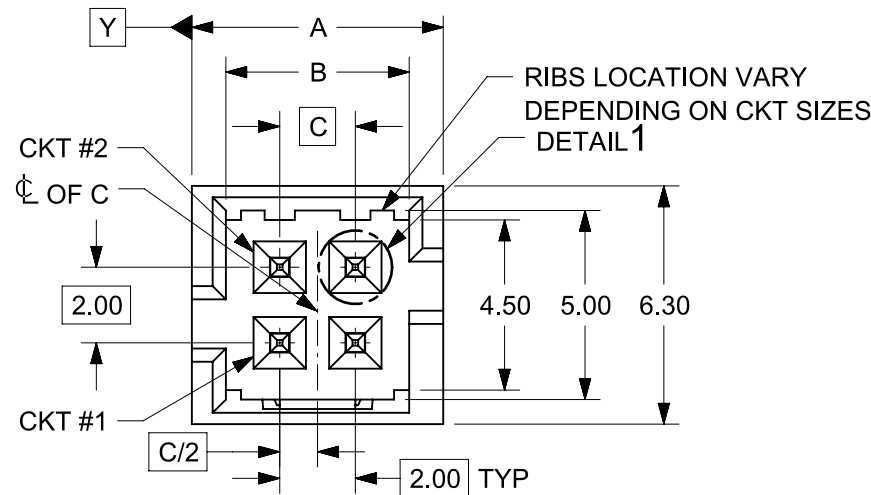
PLATING MEASUREMENT



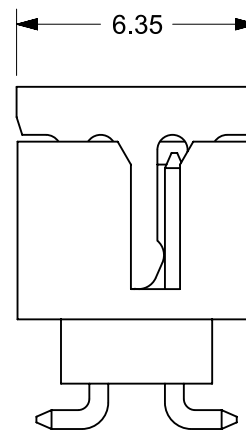
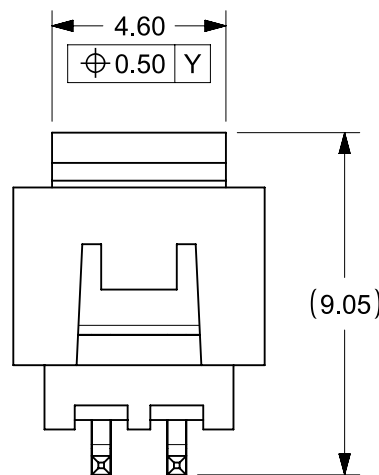
CIRCUIT SIZE	FEATURES					SHEET NO
	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	PEGS	
	① DUAL	② CENTER				
4	N.A	N.A	YES	N.A	N.A	2 - 3
	N.A	YES	YES	N.A	N.A	
6	N.A	N.A	YES	N.A	N.A	4 - 5
	N.A	N.A	YES	N.A	YES	
	N.A	N.A	YES	YES	N.A	
	N.A	YES	YES	N.A	N.A	
	N.A	YES	YES	N.A	YES	
8 TO 12	N.A	N.A	YES	YES	YES	6 - 7
	N.A	N.A	YES	YES	N.A	
	N.A	YES	YES	N.A	N.A	
	N.A	YES	YES	N.A	YES	
14 TO 50	YES	N.A	YES	YES	N.A	8 - 11
	YES	N.A	YES	YES	YES	

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 NUMBER			molex MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER					
	mm	NTS											
		GENERAL TOLERANCES (UNLESS SPECIFIED)											
			MM	INCH									
$\frac{E}{A} = 0$	4 PLACES	±	±	STATUS: Production									
$\frac{E}{F} = 0$	3 PLACES	±	±	DRWN: Meghraj Boodagatti			2026-06-04						
DIVISIONAL SYMBOLS	2 PLACES	±	0.200	CHK'D: Meghraj Boodagatti			2026-06-10						
	1 PLACE	±	±	APPR: Saravanakumar Murugesan			2026-06-10						
	0 PLACES	±	±	INITIAL REVISION:									
	ANGULAR TOL ± 3°			DRWN: GMENARLY			2015-05-22						
			APPR: KHLIM			2015-09-22							
			THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
					A3-SIZE		87832		SD-87832-0001		PSD	001	A25
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
										GENERAL MARKET		1 OF 13	

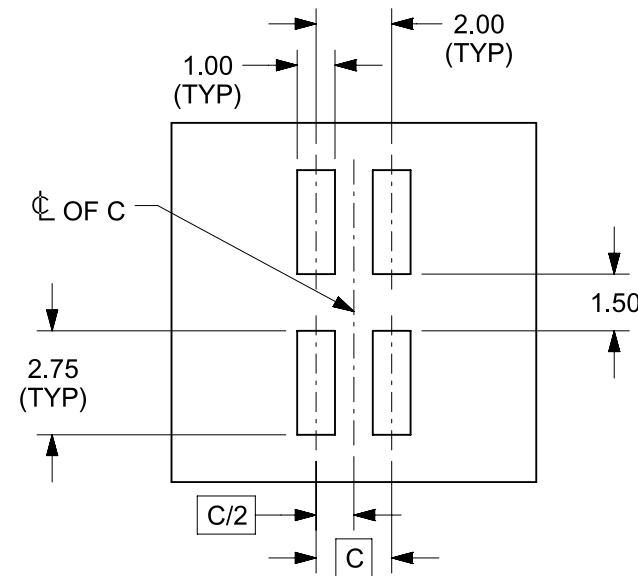
4 CIRCUITS



SECTION Z-Z



VIEW FOR HEADER WITH CAP



RECOMMENDED PCB LAYOUT

NOTES:

1. MATERIALS:
HOUSING & CAP: 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 12
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. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE
7. BEND DEPRESSION ON SMT TAIL IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY
8. TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE

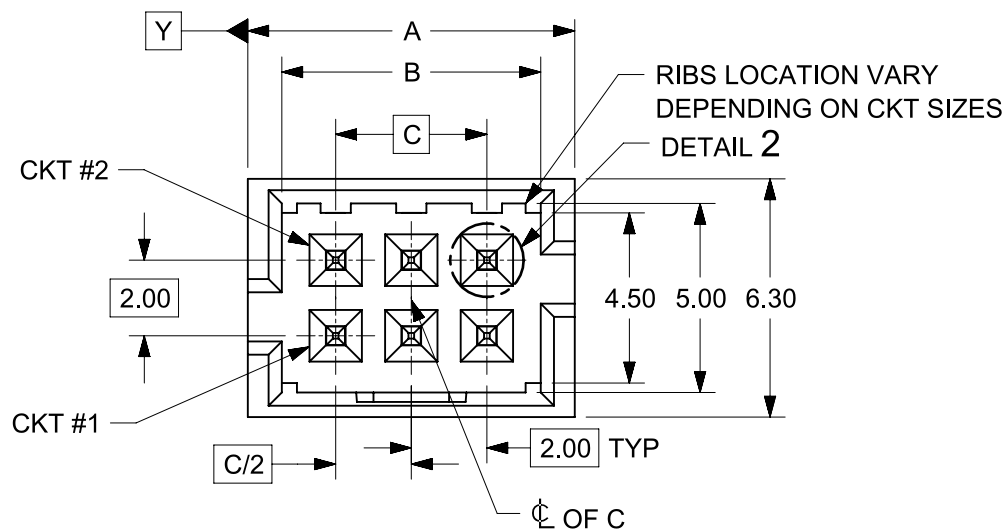
FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
	DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDING NEW PART NUMBER			molex			
	mm		NTS								
F A = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				STATUS: Production DRWN: Meghraj Boodagatti 2026-06-04 CHK'D: Meghraj Boodagatti 2026-06-10 APPR: Saravanakumar Murugesan 2026-06-10 INITIAL REVISION: DRWN: GMENARLY 2015-05-22 APPR: KHLIM 2015-09-22			MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER			
F E = 0		MM	INCH								
F P = 0	4 PLACES	±		±							
DIVISIONAL SYMBOLS	3 PLACES	±		±							
	2 PLACES	±	0.200								
	1 PLACE	±		±							
	0 PLACES	±		±							
	ANGULAR TOL		±	3°				DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
								SD-87832-0001	PSD	001	A25
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER
						A3-SIZE	87832		GENERAL MARKET		2 OF 13

CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	T&R OPTIONS (SEE SHEET 12)	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	PEGS	DIMENSION								
						DUAL	CENTER				A	B	C	D	E	F	G (COPLAN)	H	
4	87832-0460	87832-0462	87832-5162	1	1	N.A	N.A	YES	N.A	N.A	6.65	4.85	2.00	N.A	N.A	5.00	0.10	3.60±0.20	
	87832-0420	87832-0422	87832-5122	1	2														
	87832-0421	87832-0423	87832-5123	1	3														
	87832-0470	87832-0472	87832-5172	1	4														
	87832-0410	87832-0408	87832-0406	1	2	N.A	YES	YES	N.A	N.A							0.10		
			87832-5106	2	2														
	87832-0411	87832-0409	87832-0407	1	3														0.10
	87832-0404	N.A	N.A	N.A	2														

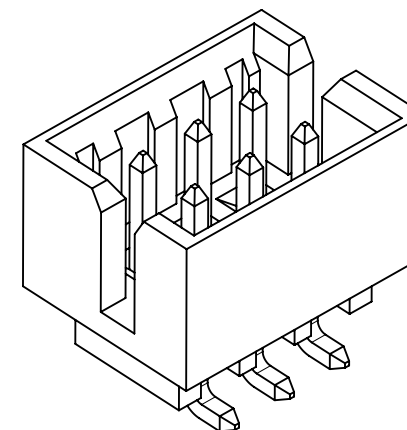
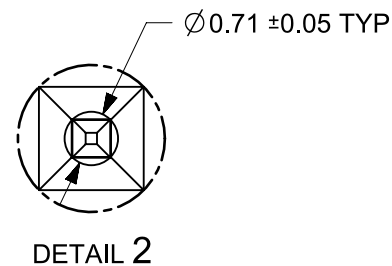
PLATING OPTIONS:

- 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
1.88um/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.
- 4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.

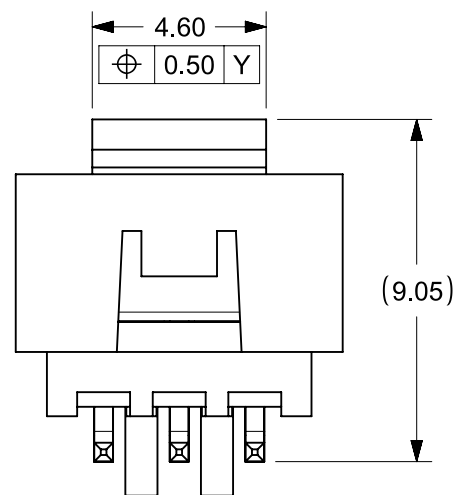
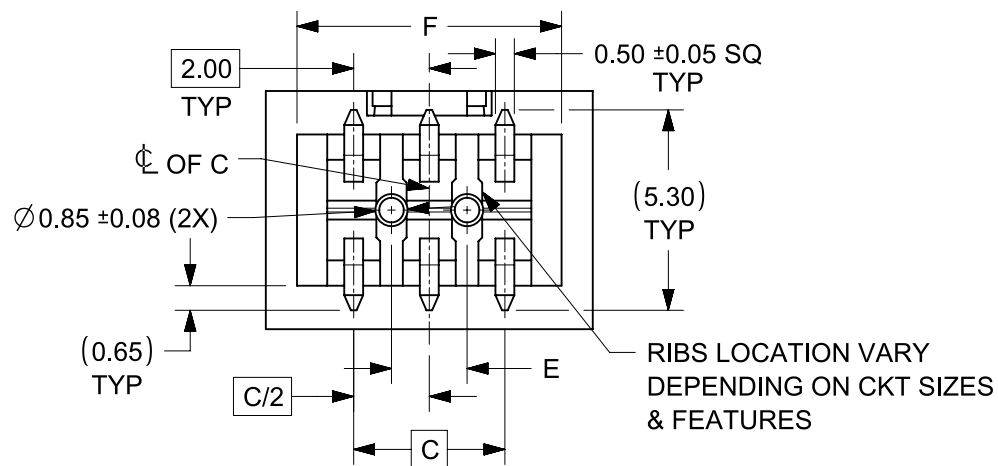
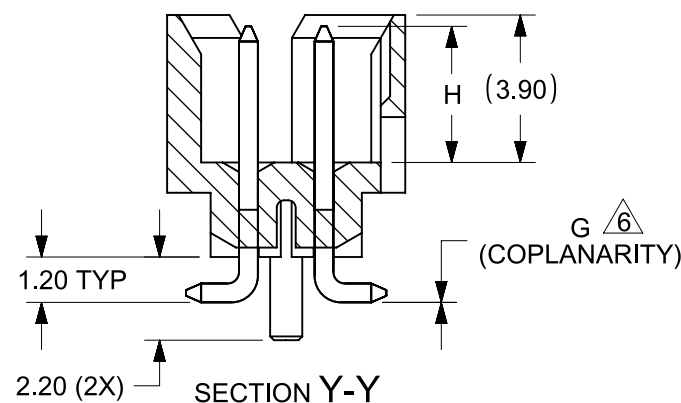
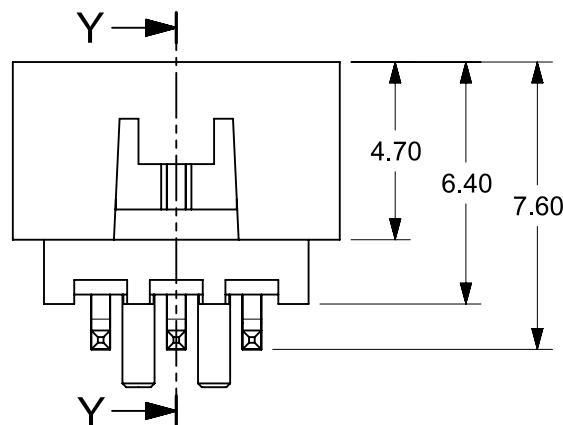
FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
	DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDING NEW PART NUMBER			molex			
	mm		NTS								
	GENERAL TOLERANCES (UNLESS SPECIFIED)				STATUS: Production DRWN: Meghraj Boodagatti 2026-06-04 CHK'D: Meghraj Boodagatti 2026-06-10 APPR: Saravanakumar Murugesan 2026-06-10 INITIAL REVISION: DRWN: GMENARLY 2015-05-22 APPR: KHLIM 2015-09-22			PRODUCT CUSTOMER DRAWING			
	MM		INCH								
	4 PLACES	±	±								
	3 PLACES	±	±								
	DIVISIONAL SYMBOLS	2 PLACES	±	0.200	±	DOCUMENT NUMBER SD-87832-0001 MATERIAL NUMBER CUSTOMER GENERAL MARKET			DOC TYPE PSD	DOC PART 001	REVISION A25
		1 PLACE	±	±							
0 PLACES		±	±								
ANGULAR TOL		±	3°								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 							



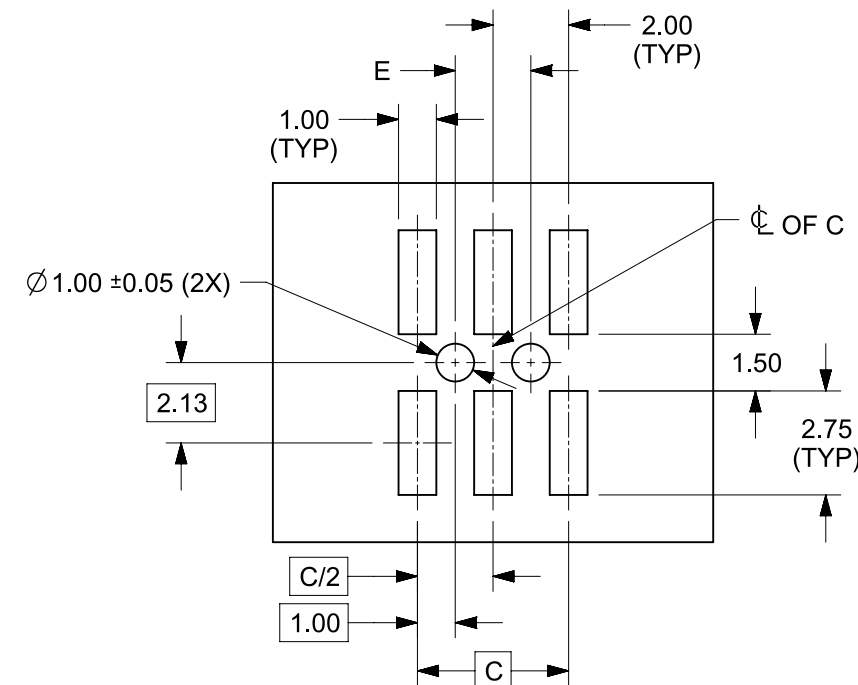
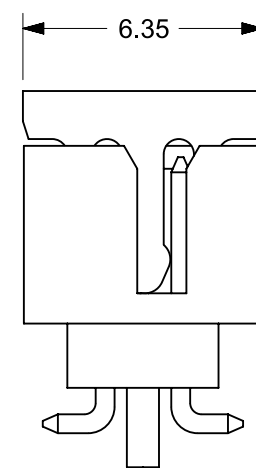
6 CIRCUITS



VIEW FOR HEADER WITH ONLY DUAL SLOTS



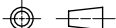
VIEW FOR HEADER WITH CAP



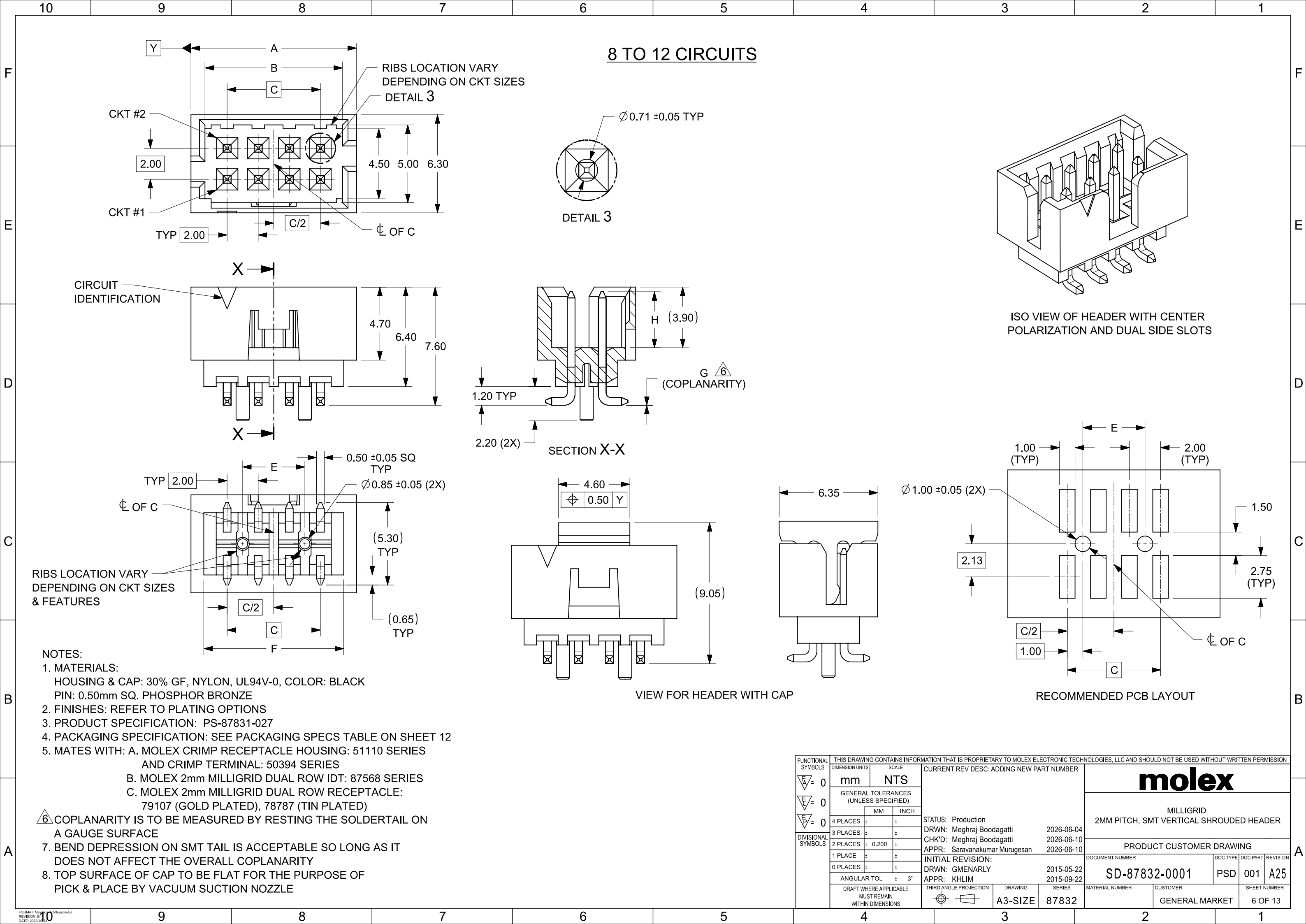
RECOMMENDED PCB LAYOUT

NOTES:

- MATERIALS:
HOUSING & CAP: 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 12
 - 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)
- COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE
- BEND DEPRESSION ON SMT TAIL IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY
 - TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE

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 NUMBER								
F_A = 0	mm		NTS		molex								
F_C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)												
DIVISIONAL SYMBOLS		MM	INCH		STATUS: Production								
	4 PLACES	±	±										
	3 PLACES	±	±		DRWN: Meghraj Boodagatti 2026-06-04								
	2 PLACES	± 0.200	±										
	1 PLACE	±	±		CHK'D: Meghraj Boodagatti 2026-06-10								
	0 PLACES	±	±										
ANGULAR TOL ± 3°				APPR: Saravanakumar Murugesan 2026-06-10									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS													
THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
		A3-SIZE		87832		SD-87832-0001		PSD		001		A25	
MATERIAL NUMBER				CUSTOMER				SHEET NUMBER					
				GENERAL MARKET				4 OF 13					

10	9	8	7	6	5	4	3	2	1										
6 CIRCUITS																			
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	ASSY P/N WITHOUT CAP IN T&R	T&R OPTIONS (SEE SHEET 12)	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATIO N	PEGS	DIMENSION							
							DUAL	CENTER				A	B	C	D	E	F	G (COPLAN)	H
6	87832-0660	87832-0662	87832-5262		1	1	N.A	N.A	YES	N.A	YES	8.65	6.85	4.00	N.A	2.00	7.00	0.10	3.60±0.20
	87832-0620	87832-0622	87832-5222	87832-5230	1	2													
	87832-0621	87832-0623	87832-5223		1	3													
	87832-0670	87832-0672	87832-5272		1	4													
	87832-0612	87832-0616	87832-0614		1	2	N.A	N.A	YES	N.A	N.A							0.10	3.60±0.20
	87832-0613	87832-0617	87832-0615		1	3	N.A	N.A	YES	YES	N.A								
	87832-0624	87832-0626	87832-0628		1	2	N.A	YES	YES	N.A	N.A							0.10	3.60±0.15
	87832-0625	87832-0627	87832-0629		1	3													
	87832-0610	87832-0608	87832-0606		1	2	N.A	YES	YES	N.A	YES							0.10	3.60±0.20
	87832-0611	87832-0609	87832-0607		1	3													
	87832-0604	N.A	N.A		N.A	2	N.A	YES	YES	N.A	YES							0.10	3.60±0.20



10	9	8	7	6	5	4	3	2	1																																		
8 TO 12 CIRCUITS																																											
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	ASSY P/N WITHOUT CAP IN T&R	T&R OPTIONS (SEE SHEET 12)	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZ ATION	PEGS	DIMENSION																															
							DUAL	CENTER				A	B	C	D	E	F	G (COPLAN)	H																								
A24 8	87832-0860	87832-0862	87832-5362		1	1	N.A	N.A	YES	YES	YES	10.65	8.85	6.00	N.A	4.00	9.00	0.10	3.60±0.20																								
	87832-0820	87832-0822	87832-5322	87832-5330	1	2																																					
	87832-0821	87832-0823	87832-5323		1	3																																					
	87832-0870	87832-0872	87832-5372		1	4																																					
	87832-0812	87832-0816	87832-0814		1	2	N.A	N.A	YES	YES	N.A							0.10	3.60±0.20																								
	87832-0824	87832-0826	87832-0828		1	2	N.A	YES	YES	N.A	N.A							0.10	3.60±0.15																								
	87832-0825	87832-0827	87832-0829		1	3	N.A	YES	YES	N.A	YES							0.10	3.60±0.20																								
	87832-0810	87832-0808	87832-0806		1	2																																					
	87832-0811	87832-0809	87832-0807		1	3																																					
	87832-0804	N.A	N.A		N.A	2	N.A	YES	YES	N.A	YES							0.10	3.60±0.20																								
10	87832-1060	87832-1062	87832-5462		1	1	N.A	N.A	YES	YES	YES	12.65	10.85	8.00	N.A	6.00	11.00	0.10	3.60±0.20																								
	87832-1020	87832-1022	87832-5422	87832-5430	1	2																																					
	87832-1021	87832-1023	87832-5423		1	3																																					
			87832-9423		2																																						
	87832-1070	87832-1072	87832-5472		1	4	N.A	N.A	YES	YES	N.A							0.10	3.60±0.20																								
	87832-1012	87832-1016	87832-1014		1	2																																					
	87832-1019	87832-1045	87832-1035		1	1																																					
	87832-1024	87832-1026	87832-1028		1	2	N.A	YES	YES	N.A	N.A									0.10	3.60±0.15																						
	N.A	N.A	87832-1055		1	1																																					
	87832-1025	87832-1027	87832-1029		1	3	N.A	YES	YES	N.A	YES							0.10	3.60±0.20																								
	87832-1010	87832-1008	87832-1006		1	2																																					
	87832-1011	87832-1009	87832-1007		1	3																																					
	87832-1004	N.A	N.A		N.A	2	N.A	YES	YES	N.A	YES									0.10	3.60±0.20																						
12	87832-1260	87832-1262	87832-5562		1	1	N.A	N.A	YES	YES	YES	14.65	12.85	10.00	N.A	8.00	13.00	0.10	3.60±0.20																								
	87832-1220	87832-1222	87832-5522		1	2																																					
	87832-1221	87832-1223	87832-5523		1	3																																					
			87832-9623		2																																						
	87832-1270	87832-1272	87832-5572		1	4	N.A	YES	YES	N.A	N.A							0.10	3.60±0.15																								
	87832-1224	87832-1226	87832-1228		1	2																																					
	87832-1225	87832-1227	87832-1229		1	3																																					
	87832-1210	87832-1208	87832-1206		1	2	N.A	YES	YES	N.A	YES									0.10	3.60±0.20																						
	87832-1211	87832-1209	87832-1207		1	3																																					
	87832-1204	N.A	N.A		N.A	2	N.A	YES	YES	N.A	YES							0.10	3.60±0.20																								
87832-1212	N.A	N.A		N.A	2	N.A	N.A	YES	YES	N.A																																	
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. 4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.																																											
FUNCTIONAL SYMBOLS FA= 0 FB= 0 FC= 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 NTS GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>MM</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>±</td><td>±</td></tr><tr><td>3 PLACES</td><td>±</td><td>±</td></tr><tr><td>2 PLACES</td><td>± 0.200</td><td>±</td></tr><tr><td>1 PLACE</td><td>±</td><td>±</td></tr><tr><td>0 PLACES</td><td>±</td><td>±</td></tr><tr><td>ANGULAR TOL</td><td>± 3°</td><td></td></tr><tr><td>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td></td><td></td></tr></table> THIRD ANGLE PROJECTION A3-SIZE 87832 STATUS: Production DRWN: Meghraj Boodagatti2026-06-04 CHK'D: Meghraj Boodagatti2026-06-10 APPR: Saravanakumar Murugesan2026-06-10 INITIAL REVISION: DRWN: GMENARLY2015-05-22 APPR: KHLIM2015-09-22 DOCUMENT NUMBER SD-87832-0001 DOC TYPE PSD DOC PART 001 REVISION A25 MATERIAL NUMBER CUSTOMER GENERAL MARKET SHEET NUMBER 7 OF 13																					MM	INCH	4 PLACES	±	±	3 PLACES	±	±	2 PLACES	± 0.200	±	1 PLACE	±	±	0 PLACES	±	±	ANGULAR TOL	± 3°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
	MM	INCH																																									
4 PLACES	±	±																																									
3 PLACES	±	±																																									
2 PLACES	± 0.200	±																																									
1 PLACE	±	±																																									
0 PLACES	±	±																																									
ANGULAR TOL	± 3°																																										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																																											

FUNCTIONAL SYMBOLS

FA

=

0

FB

=

0

FC

=

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

mm

NTS

GENERAL TOLERANCES (UNLESS SPECIFIED)

MM

INCH

4 PLACES

±

±

3 PLACES

±

±

2 PLACES

±

0.200

±

1 PLACE

±

±

0 PLACES

±

±

ANGULAR TOL

±

3°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADDING NEW PART NUMBER

STATUS: Production

DRWN: Meghraj Boodagatti

CHK'D: Meghraj Boodagatti

APPR: Saravanakumar Murugesan

2026-06-04

2026-06-10

2026-06-10

INITIAL REVISION:

DRWN: GMENARLY

APPR: KHLIM

2015-05-22

2015-09-22

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

A3-SIZE

87832

GENERAL TOLERANCES (UNLESS SPECIFIED)

MM

INCH

4 PLACES

±

±

3 PLACES

±

±

2 PLACES

±

0.200

±

1 PLACE

±

±

0 PLACES

±

±

ANGULAR TOL

±

3°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADDING NEW PART NUMBER

STATUS: Production

DRWN: Meghraj Boodagatti

CHK'D: Meghraj Boodagatti

APPR: Saravanakumar Murugesan

2026-06-04

2026-06-10

2026-06-10

INITIAL REVISION:

DRWN: GMENARLY

APPR: KHLIM

2015-05-22

2015-09-22

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

A3-SIZE

87832

GENERAL TOLERANCES (UNLESS SPECIFIED)

MM

INCH

4 PLACES

±

±

3 PLACES

±

±

2 PLACES

±

0.200

±

1 PLACE

±

±

0 PLACES

±

±

ANGULAR TOL

±

3°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADDING NEW PART NUMBER

STATUS: Production

DRWN: Meghraj Boodagatti

CHK'D: Meghraj Boodagatti

APPR: Saravanakumar Murugesan

2026-06-04

2026-06-10

2026-06-10

INITIAL REVISION:

DRWN: GMENARLY

APPR: KHLIM

2015-05-22

2015-09-22

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

A3-SIZE

87832

GENERAL TOLERANCES (UNLESS SPECIFIED)

MM

INCH

4 PLACES

±

±

3 PLACES

±

±

2 PLACES

±

0.200

±

1 PLACE

±

±

0 PLACES

±

±

ANGULAR TOL

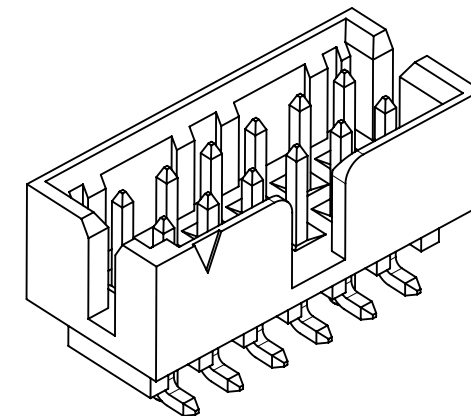
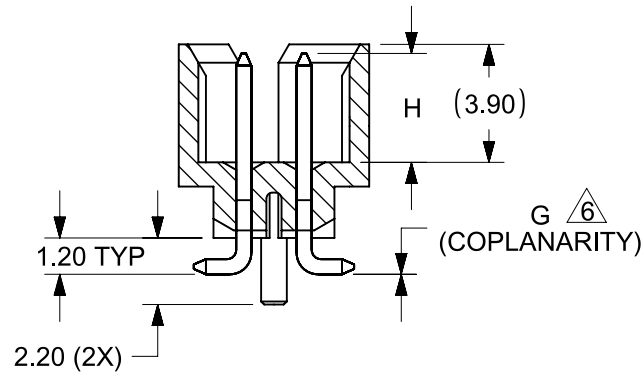
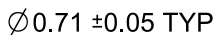
±

3°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADD

$\varnothing 0.71 \pm 0.05$ TYP



- 6 COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE

molex

MILLIGRID
2MM PITCH, SMT VERTICAL SHROUDED HEADER

PRODUCT CUSTOMER DRAWING

SD-87832-0001

PSD	001	A25
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CUSTOMER	
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EET NUMBER

GENERAL MARKET

8 OF 13

10	9	8	7	6	5	4	3	2	1																								
14 TO 24 CIRCUITS																																	
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	ASSY P/N WITHOUT CAP IN T&R	T&R OPTIONS (SEE SHEET 12)	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZA TION	PEGS	DIMENSION							So (T&R)														
							DUAL	CENTER				A	B	C	D	E	F	G (COPLAN)		H													
14	87832-1460	87832-1462	87832-5662		1	1	YES	N.A	YES	YES	YES	16.65	14.85	12.00	8.00	10.00	15.0 0	0.15	3.60±0.20														
	87832-1420	87832-1422	87832-5622	87832-5630	1	2																											
	87832-1421	87832-1423	87832-5623		1	3																											
			87832-9523		2																												
	87832-1470	87832-1472	87832-5672		1	4																											
87832-1412	87832-1416	87832-1414		1	2	YES	N.A	YES	YES	N.A							0.15	3.60±0.20															
16	87832-1660	87832-1662	87832-5762		1	1	YES	N.A	YES	YES	YES	18.65	16.85	14.00	10.00	12.00	17.0 0	0.15	3.60±0.20														
	87832-1620	87832-1622	87832-5722		1	2																											
	87832-1621	87832-1623	87832-5723		1	3																											
	87832-1670	87832-1672	87832-5772	87832-5730	1	4																											
	87832-1612	87832-1616	87832-1614		1	2	YES	N.A	YES	YES	N.A												0.15	3.60±0.20	28.40								
	87832-1619	87832-1645	87832-1635		1	1																											
18	87832-1860	87832-1862	87832-5862		1	1	YES	N.A	YES	YES	YES	20.65	18.85	16.00	12.00	14.00	19.0 0	0.15	3.60±0.20														
	87832-1820	87832-1822	87832-5822	87832-5830	1	2																											
	87832-1821	87832-1823	87832-5823		1	3																											
	87832-1870	87832-1872	87832-5872		1	4																											
	87832-1812	87832-1816	87832-1814		3	2	YES	N.A	YES	YES	N.A												0.15	3.60±0.20									
	87832-1813	87832-1817	87832-1815		3	3	YES	N.A	YES	YES	N.A												0.15	3.60±0.20									
20	87832-2060	87832-2062	87832-5962		1	1	YES	N.A	YES	YES	YES	22.65	20.85	18.00	14.00	16.00	21.0 0	0.15	3.60±0.20														
	87832-2020	87832-2022	87832-5922	87832-5930	1	2																											
	87832-2021	87832-2023	87832-5923		1	3																											
	87832-2070	87832-2072	87832-5972		1	4																											
			87832-9672		2																												
87832-2012	87832-2016	87832-2014		1	2	YES	N.A	YES	YES	N.A							0.15	3.60±0.20	40.40														
22	87832-2260	87832-2262	87832-6062		1	1	YES	N.A	YES	YES	YES	24.65	22.85	20.00	16.00	18.00	23.0 0	0.15	3.60±0.20														
	87832-2220	87832-2222	87832-6022	87832-6030	1	2																											
	87832-2221	87832-2223	87832-6023	87832-6031	1	3																											
	87832-2270	87832-2272	87832-6072		1	4																											
24	87832-2460	87832-2462	87832-6162		1	1	YES	N.A	YES	YES	YES	26.65	24.85	22.00	18.00	20.00	25.0 0	0.15	3.60±0.20														
	87832-2420	87832-2422	87832-6122	87832-6130	1	2																											
	87832-2421	87832-2423	87832-6123		1	3																											
	87832-2470	87832-2472	87832-6172		1	4																											
	87832-2412	87832-2416	87832-2414		1	2	YES	N.A	YES	YES	N.A													0.15	3.60±0.20								
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 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. 4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.																																	
FUNCTIONAL SYMBOLS THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION FUNCTIONAL SYMBOLS 4 PLACES ± 0 3 PLACES ± 0 2 PLACES ± 0 1 PLACE ± 0 0 PLACES ± 0 DIVISIONAL SYMBOLS 4 PLACES ± 0 3 PLACES ± 0 2 PLACES ± 0 1 PLACE ± 0 0 PLACES ± 0 ANGULAR TOL ± 3° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS SCALE mm NTS GENERAL TOLERANCES (UNLESS SPECIFIED) MM INCH STATUS: Production DRWN: Meghraj Boodagatti CHK'D: Meghraj Boodagatti APPR: Saravanakumar Murugesan 2026-06-04 2026-06-10 2026-06-10 INITIAL REVISION: DRWN: GMENARLY APPR: KHLIM 2015-05-22 2015-09-22 THIRD ANGLE PROJECTION DRAWING A3-SIZE SERIES 87832 DOCUMENT NUMBER SD-87832-0001 DOC TYPE PSD DOC PART 001 REVISION A25 MATERIAL NUMBER CUSTOMER 9 OF 13																																	
10	9	8	7	6	5	4	3	2	1																								

10	9	8	7	6	5	4	3	2	1												
26 TO 38 CIRCUITS																					
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	ASSY P/N WITHOUT CAP IN T&R	T&R OPTIONS (SEE SHEET 12)	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZATION	PEGS	DIMENSION									
							DUAL	CENTER				A	B	C	D	E	F	G (COPLAN)	H		
26	87832-2660	87832-2662	87832-6262		1	1	YES	N.A	YES	YES	YES	28.65	26.85	24.00	20.00	22.00	27.00	0.15	3.60±0.20		
	87832-2620	87832-2622	87832-6222		1	2															
	87832-2621	87832-2623	87832-6223		1	3															
	87832-2670	87832-2672	87832-6272		1	4															
	87832-2612	87832-2616	N.A		N.A	2	YES	N.A	YES	YES	N.A							0.15	3.60±0.20		
	87832-2619	87832-2645	87832-2635		1	1															
28	87832-2860	87832-2862	87832-6362		1	1	YES	N.A	YES	YES	YES	30.65	28.85	26.00	22.00	24.00	29.00	0.15	3.60±0.20		
	87832-2820	87832-2822	87832-6322		1	2															
	87832-2821	87832-2823	87832-6323		1	3															
	87832-2870	87832-2872	87832-6372		1	4															
	N.A	87832-2816	N.A		1	2	YES	N.A	YES	YES	N.A									0.15	3.60±0.20
	N.A	87832-2819	N.A		1	1															
30	87832-3060	87832-3062	87832-6462		1	1	YES	N.A	YES	YES	YES	32.65	30.85	28.00	24.00	26.00	31.00	0.15	3.60±0.20		
	87832-3020	87832-3022	87832-6422		1	2															
	87832-3021	87832-3023	87832-6423		1	3															
	87832-3070	87832-3072	87832-6472		1	4															
	87832-3012	87832-3016	87832-3014		3	2	YES	N.A	YES	YES	N.A							0.15	3.60±0.20		
32	87832-3260	87832-3262	87832-6562		1	1	YES	N.A	YES	YES	YES	34.65	32.85	30.00	26.00	28.00	33.00	0.15	3.60±0.20		
	87832-3220	87832-3222	87832-6522		1	2															
	87832-3221	87832-3223	87832-6523		1	3															
	87832-3270	87832-3272	87832-6572		1	4															
34	87832-3460	87832-3462	87832-6662	87832-6630	1	1	YES	N.A	YES	YES	YES	36.65	34.85	32.00	28.00	30.00	35.00	0.15	3.60±0.20		
	87832-3420	87832-3422	87832-6622		1	2															
	87832-3421	87832-3423	87832-6623		1	3															
	87832-3470	87832-3472	87832-6672		1	4															
	87832-3412	87832-3416	87832-3414		3	2	YES	N.A	YES	YES	N.A							0.15	3.60±0.20		
	87832-3419	87832-3445	87832-3435		3	1															
36	87832-3660	87832-3662	N.A		N.A	1	YES	N.A	YES	YES	YES	38.65	36.85	34.00	30.00	32.00	37.00	0.15	3.60±0.20		
	87832-3620	87832-3622	N.A		N.A	2															
	87832-3621	87832-3623	87832-3673		N.A	3															
	87832-3670	87832-3672	N.A		N.A	4															
38	87832-3860	87832-3862	N.A		N.A	1	YES	N.A	YES	YES	YES	40.65	38.85	36.00	32.00	34.00	39.00	0.15	3.60±0.20		
	87832-3820	87832-3822	87832-6822		N.A	2															
	87832-3821	87832-3823	87832-3874		N.A	3															
	87832-3870	87832-3872	N.A		N.A	4															
<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. 4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.																					
FUNCTIONAL SYMBOLS THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION 0 FA 0 FE 0 FP DIVISIONAL SYMBOLS DIMENSION UNITS mm SCALE NTS GENERAL TOLERANCES (UNLESS SPECIFIED) MM INCH 4 PLACES ± ± 3 PLACES ± ± 2 PLACES ± 0.200 ± 1 PLACE ± ± 0 PLACES ± ± ANGULAR TOL ± 3° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS CURRENT REV DESC: ADDING NEW PART NUMBER STATUS: Production DRWN: Meghraj Boodagatti CHK'D: Meghraj Boodagatti APPR: Saravanakumar Murugesan 2026-06-04 2026-06-10 2026-06-10 INITIAL REVISION: DRWN: GMENARLY APPR: KHLIM 2015-05-22 2015-09-22 THIRD ANGLE PROJECTION DRAWING A3-SIZE SERIES 87832 DOCUMENT NUMBER SD-87832-0001 CUSTOMER GENERAL MARKET SHEET NUMBER 10 OF 13 mo lex MILLIGRID 2MM PITCH, SMT VERTICAL SHROUDED HEADER PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER DOC TYPE DOC PART REVISION SD-87832-0001 PSD 001 A25																					
10	9	8	7	6	5	4	3	2	1												

10		9		8		7		6		5		4		3		2		1				
40 TO 50 CIRCUITS																						
F	CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	ASSY P/N WITHOUT CAP IN T&R	VOID PIN LOCATION	T&R OPTIONS (SEE SHEET 12)	PLATING OPTIONS	FRICTION LOCKS		DUAL SIDE SLOTS	CENTER POLARIZA TION	PEGS	DIMENSION							F	
									DUAL	CENTER				A	B	C	D	E	F	G (COPLAN)		H
40		87832-4060	87832-4062	87832-6962		-	1	1	YES	N.A	YES	YES	YES	42.65	40.85	38.00	34.00	36.00	41.00	0.15	3.60±0.20	
		87832-4020	87832-4022	87832-6922		-	1	2														
		87832-4021	87832-4023	87832-6923		-	1	3														
		87832-4070	87832-4072	87832-6972		-	1	4														
		87832-4012	87832-4016	N.A		-	N.A	2	YES	N.A	YES	YES	N.A									
E		87832-6925			-	N.A	3															
42		87832-4260	87832-4262	N.A		-	N.A	1	YES	N.A	YES	YES	YES	44.65	42.85	40.00	36.00	38.00	43.00	0.15	3.60±0.20	
		87832-4220	87832-4222	87832-4230		-	N.A	2														
		87832-4221	87832-4223	N.A		-	N.A	3														
		87832-4270	87832-4272	N.A		-	N.A	4														
44		87832-4460	87832-4462	87832-7162		-	1	1	YES	N.A	YES	YES	YES	46.65	44.85	42.00	38.00	40.00	45.00	0.15	3.60±0.20	
		87832-4420	87832-4422	87832-7122		-	1	2														
		87832-4421	87832-4423	87832-7123		-	1	3														
		87832-4470	87832-4472	87832-7172		-	1	4														
	D		87832-4413	87832-4417	87832-4415		-	3	3	YES	N.A	YES	YES							N.A		
46		87832-4660	87832-4662	87832-7262		-	1	1	YES	N.A	YES	YES	YES	48.65	46.85	44.00	40.00	42.00	47.00	0.15	3.60±0.20	
		87832-4620	87832-4622	87832-7222	87832-7230	-	1	2														
		87832-4621	87832-4623	N.A		-	N.A	3														
		87832-4670	87832-4672	87832-7272		-	1	4														
48		87832-4860	87832-4862	N.A		-	N.A	1	YES	N.A	YES	YES	YES	50.65	48.85	46.00	42.00	44.00	49.00	0.15	3.60±0.20	
		87832-4820	87832-4822	N.A		-	N.A	2														
		87832-4821	87832-4823	N.A		-	N.A	3														
		87832-4870	87832-4872	N.A		-	N.A	4														
50		87832-5060	87832-5062	87832-7462		-	1	1	YES	N.A	YES	YES	YES	52.65	50.85	48.00	44.00	46.00	51.00	0.15	3.60±0.20	
		87832-5020	87832-5022	87832-7422		-	1	2														
		87832-5021	87832-5023	87832-7423		-	1	3														
		87832-5070	87832-5072	87832-7472		-	1	4														
			87832-5032			9,10,11,12,17,18,39,40	1	1														
		87832-5033			18,17,33,34	1	1															
		87832-5012	87832-5016	N.A		-	N.A	2	YES	N.A	YES	YES	N.A								0.15	3.60±0.20
B																					B	
A																					A	
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. 4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.																						
10		9		8		7		6		5		4		3		2		1				
FORMAT: Meghraj C:\b-prod\A3 REVISION: B DATE: 2023/10/22																						

F



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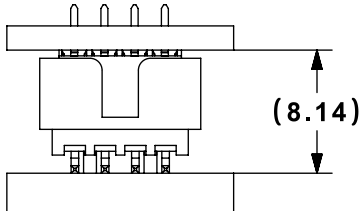
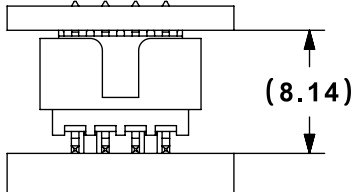
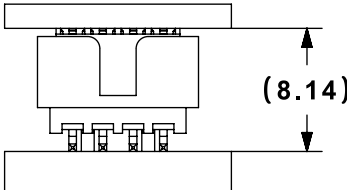
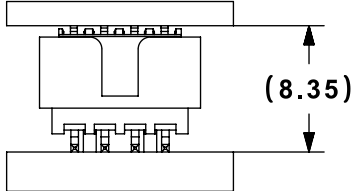
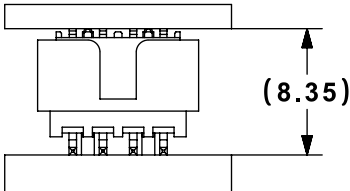
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BOARD TO BOARD (BTB) DISTANCE

HEADER	MATES WITH (RECEPTACLE)	BTB DIST.	PICTORIAL VIEW
87832	79107	8.14	
	78787	8.14	
	79108	8.14	
	79109	8.35	
	78788	8.35	

FUNCTIONAL SYMBOLS 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 NUMBER				molex						
	mm		NTS												
	GENERAL TOLERANCES (UNLESS SPECIFIED)				STATUS: Production DRWN: Meghraj Boodagatti2026-06-04 CHK'D: Meghraj Boodagatti2026-06-10 APPR: Saravanakumar Murugesan2026-06-10 INITIAL REVISION: DRWN: DRWN BYXXXX/XX/XX APPR: APPR BYXXXX/XX/XX										
		MM	INCH												
	4 PLACES	±	±												
	3 PLACES	±	±												
	2 PLACES	± 0.200	±												
	1 PLACE	±	±	PRODUCT CUSTOMER DRAWING											
	0 PLACES	±	±												
ANGULAR TOL			±	3°	DOCUMENT NUMBER				DOC TYPE	DOC PART	REVISION				
					SD-87832-0001				PSD	001	A25				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE		87832				GENERAL MARKET		13 OF 13	