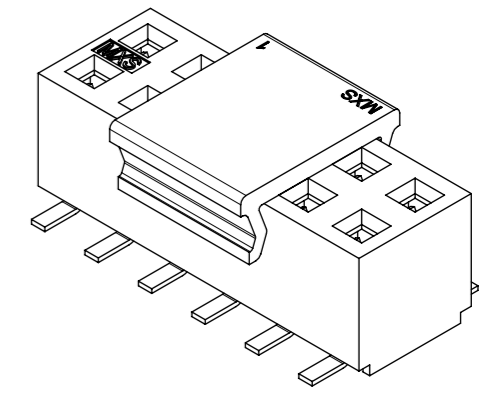
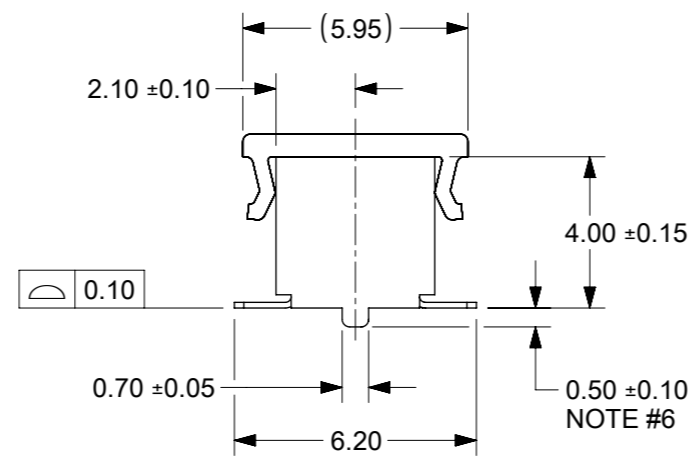
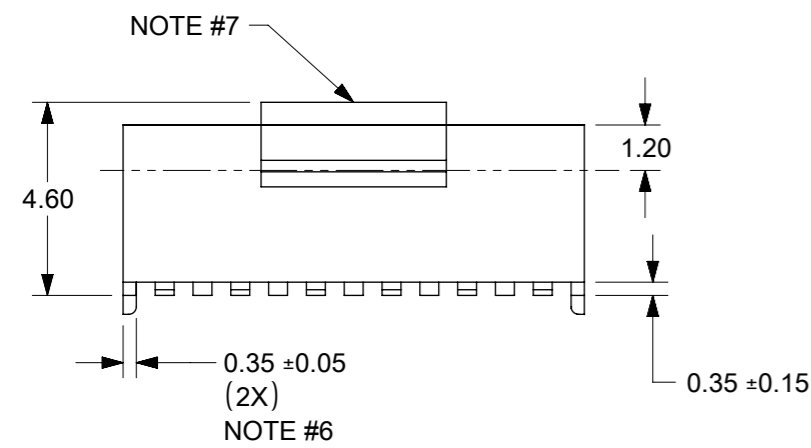


ISOMETRIC VIEW WITHOUT CAP

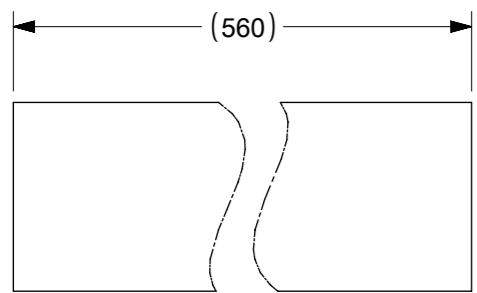


ISOMETRIC VIEW WITH CAP

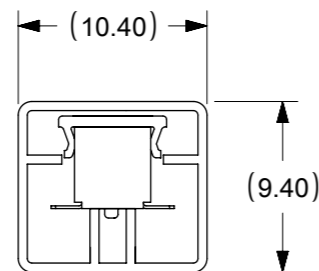


NOTES:

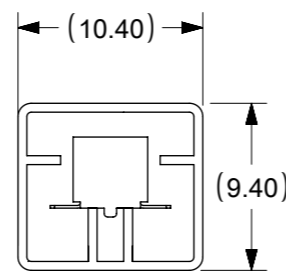
- PLATING FINISH :
 - 0.76µm MIN. GOLD IN CONTACT AREA
1.27µm MIN TIN IN SOLDER TAIL AREA
BOTH OVER 1.27µm MIN NICKEL OVERALL
 - 0.38µm MIN GOLD IN CONTACT AREA
1.27µm MIN TIN IN SOLDER TAIL AREA
BOTH OVER 1.27µm MIN NI OVERALL
 - 0.05µm MIN. GOLD IN CONTACT AREA
1.90µm MIN TIN IN SOLDER TAIL AREA
BOTH OVER 1.27µm MIN NICKEL OVERALL
- MATERIAL:
 - HOUSING : NYLON 4/6, 94V-0, COLOUR BLACK
 - CAP : NYLON, GLASS FILLED, COLOUR BLACK
 - TERMINAL : COPPER ALLOY
 - EMBOSS TAPE : CLEAR POLYSTYRENE
 - COVER TAPE : CLEAR POLYESTER
- PRODUCT SPECIFICATION PS-87380 APPLIES
- COPLANARITY OF SOLDER TAILS ARE TO BE MEASURED BY RESTING THE PART ON A FLAT GAUGE SURFACE
- OTHER PLATING OPTIONS AVAILABLE. PLEASE CONTACT FACTORY
- PEG, PCB HOLE AND CAP ARE OPTIONAL. SEE PART TABLE FOR PART CONFIGURATON
- POSITION OF CAP TO BE LOCATED AT CENTER OF DIM A REGARDLESS OF CKT SIZES.
- 12 CKT SIZE SHOWN FOR ILLUSTRATION ONLY. SEE CHART FOR ALL AVAILABLE PART SIZES. 22 CKT ILLUSTRATED FOR TAPE/REEL VERSION ON SHT 2.
- FOR PACKING QTY PER REEL REFER TO TABLE A IN SHT 2.
- PARTS SHALL BE PACKED IN MOISTURE BARRIER BAG.



CONNECTOR ORIENTATION IN TUBE

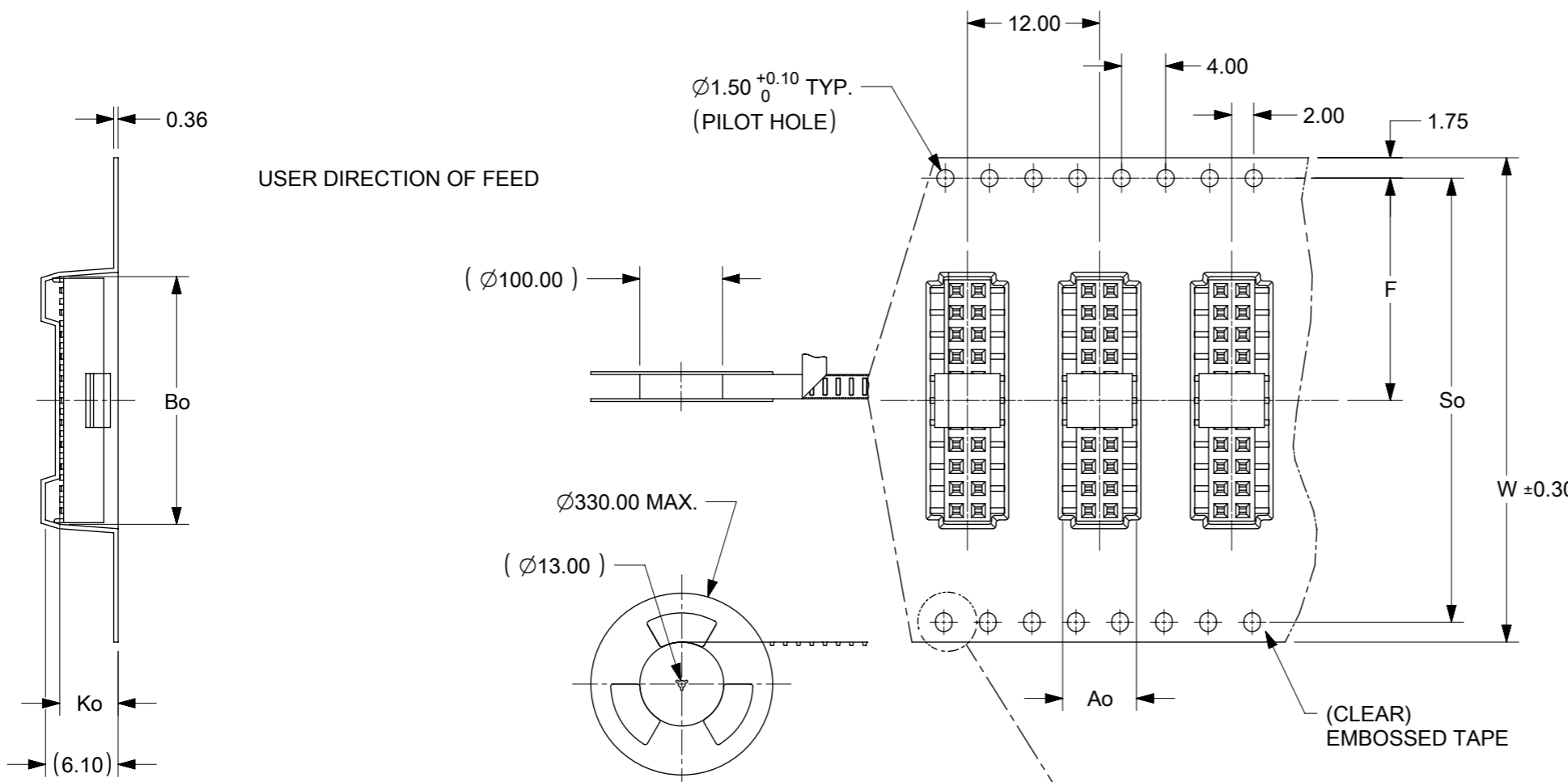


PART WITH CAP IN TUBE

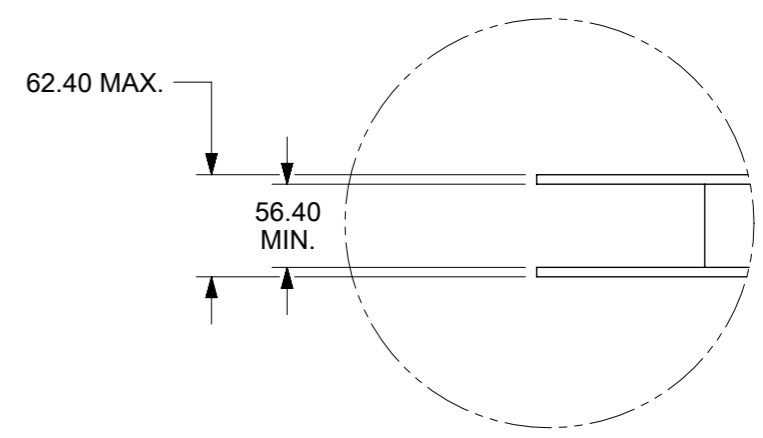


PART W/O CAP IN TUBE

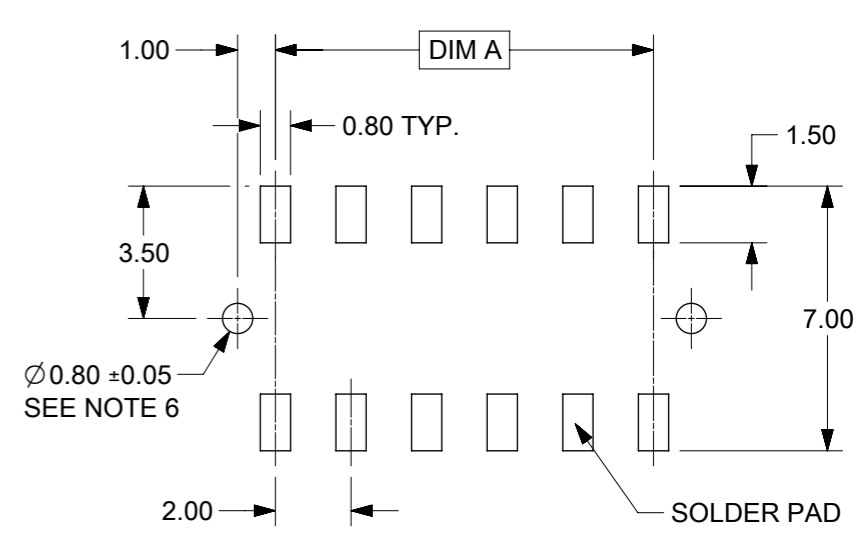
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		molex
	DIMENSION UNITS	SCALE			
▽ = 0	mm	NTS			PRODUCT CUSTOMER DRAWING
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				
▽ = 0	ANGULAR TOL ± 3.0°				DOCUMENT NUMBER
▽ = 0	4 PLACES ±			873810001-SD	
▽ = 0	3 PLACES ±				DOC TYPE
▽ = 0	2 PLACES ± 0.2			DOC PART	
▽ = 0	1 PLACE ±			REVISION	
▽ = 0	0 PLACES ±				
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES
▽ = 0			A3-SIZE	87381	MATERIAL NUMBER
					CUSTOMER
					GENERAL MARKET
					SHEET NUMBER
					1 OF 7



TAPE & REEL ORIENTATION (22 CKT SHOWN FOR REF)
NTS

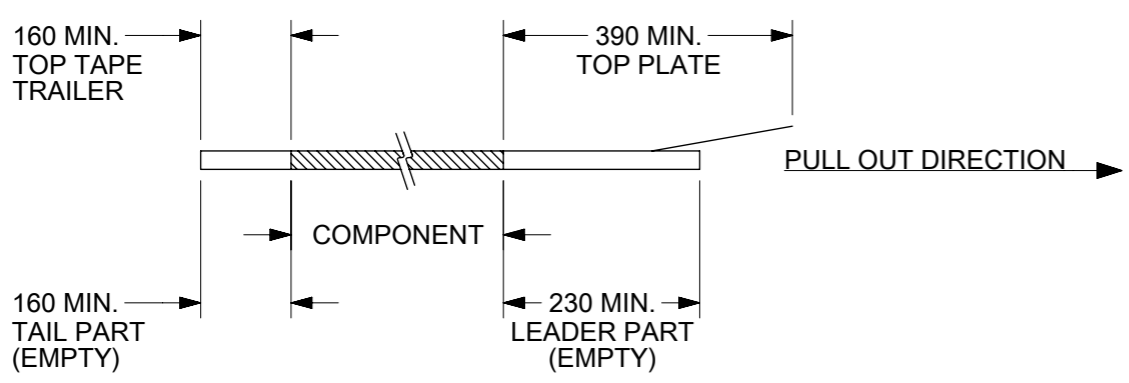


DETAIL A

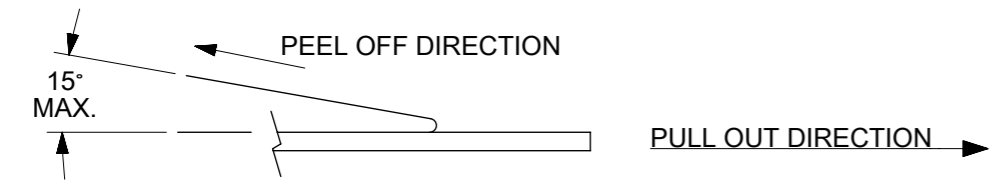


RECOMENDED PCB LAYOUT

NOTES:
1. LEADER AND TRAILER TAPE



2. PEELING OFF FORCE OF THE TOP TAPE: 20-80gf.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



3. PACKAGING STANDARD IS AS PER EIA-481.
4. TAPE & REEL QUANTITY = SEE TABLE A FOR QTY / REEL.

TABLE A


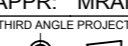
PART NO IN T&R	QTY/REEL
87381-9013	500
87381-9016	800
87381-9030	800
87381-9027	800
87381-9028	800

SYMBOLS				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
▽ = 0	mm	SCALE	NTS	CURRENT REV DESC:			
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			Molex			
▽ = 0	ANGULAR TOL ± 3.0°			MGRID TOP ENTRY RECEPTACLE 4MM HEIGHT, SMT.			
▽ = 0	4 PLACES	±		EC NO: 736158	2023/01/23		
▽ = 0	3 PLACES	±		DRWN: DANUSA	2023/01/25		
▽ = 0	2 PLACES	± 0.2		CHK'D: DANUSA	2023/02/03		
▽ = 0	1 PLACE	±		APPR: MRAMAKRISHNA	INITIAL REVISION:		
▽ = 0	0 PLACES	±		DRWN: SCS02	2018/08/07		
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER
▽ = 0				⊕	A3-SIZE	87381	873810001-SD
				CUSTOMER		SHEET NUMBER	
				GENERAL MARKET		2 OF 7	

9	8		7	6		5	4		3		2	1	
CKT. SIZE	PART W/O CAP IN TUBE	PART NO. WITH CAP IN TUBE	PART NO. WITH CAP IN T&R	PLATING FINISH	PEG	A	B	W	So	Ao	F	Bo	Ko
E 04	---	87381-0405	---	1	NO	2.00	4.00	---	---	---	---	---	---
	---	87381-0409	---	2									
	---	87381-0415	---	1	YES								
	---	87381-0419	---	2									
06	87381-0607	87381-0605	---	1	NO	4.00	6.00	24.00	---	7.00	11.50	6.50	4.80
	87381-0608	87381-0609	---	2									
	87381-0637	---	---	3									
	87381-0617	87381-0615	87381-9012	1	YES								
	87381-0618	87381-0619	87381-9013	2									
	87381-0638	---	87381-9011	3									
D 08	87381-0807	87381-0805	---	1	NO	6.00	8.00	24.00	---	7.00	11.50	8.50	4.80
	87381-0808	87381-0809	---	2									
	87381-0837	---	---	3									
	87381-0817	87381-0815	---	1	YES								
	87381-0818	87381-0819	87381-9016	2									
	87381-0838	---	---	3									
C 10	87381-1007	87381-1005	---	1	NO	8.00	10.00	24.00	---	7.00	11.50	10.50	4.80
	87381-1008	87381-1009	---	2									
	87381-1037	---	---	3									
	87381-1017	87381-1015	87381-9030	1	YES								
	87381-1018	87381-1019	---	2									
	87381-1038	---	---	3									
12	87381-1207	87381-1205	---	1	NO	10.00	12.00	---	---	---	---	---	---
	87381-1208	87381-1209	---	2									
	87381-1237	---	---	3									
	87381-1217	87381-1215	---	1	YES								
	87381-1218	87381-1219	---	2									
	87381-1238	---	---	3									
B 14	87381-1407	87381-1405	---	1	NO	12.00	14.00	---	---	---	---	---	---
	87381-1408	87381-1409	---	2									
	87381-1437	---	---	3									
	87381-1417	87381-1415	---	1	YES								
	87381-1418	87381-1419	---	2									
	87381-1438	---	---	3									

<p>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</p>													
SYMBOLS = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0		DIMENSION UNITS: mm SCALE: NTS		CURRENT REV DESC: EC NO: 736158 DRWN: DANUSA 2023/01/23 CHK'D: DANUSA 2023/01/25 APPR: MRAMAKRISHNA 2023/02/03						MGRID TOP ENTRY RECEPTACLE 4MM HEIGHT, SMT.		PRODUCT CUSTOMER DRAWING	
GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 3.0° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.2 1 PLACE ± 0 PLACES ±		INITIAL REVISION: DRWN: SCS02 2018/08/07 APPR: MRAMAKRISHNA 2019/07/09				DOCUMENT NUMBER: 873810001-SD DOC TYPE: PSD DOC PART: 000 REVISION: A2		MATERIAL NUMBER: 87381 CUSTOMER: GENERAL MARKET SHEET NUMBER: 3 OF 7		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION DRAWING: SERIES: A3-SIZE			
DOCUMENT STATUS: P1 RELEASE DATE: 2023/02/03 08:12:09													

9	8	7	6	5	4	3	2	1											
CKT. SIZE	PART W/O CAP IN TUBE	PART NO. WITH CAP IN TUBE	PART NO. WITH CAP IN T&R	PLATING FINISH	PEG	A	B	W	So	Ao	F	Bo	Ko						
E 16	87381-1607	87381-1605	---	1	NO	14.00	16.00	TBD	TBD	TBD	TBD	TBD	TBD						
	87381-1608	87381-1609	---	2															
	87381-1637	---	---	3															
	87381-1617	87381-1615	87381-1627	1	YES														
	87381-1618	87381-1619	---	2															
	87381-1638	---	---	3															
18	87381-1807	87381-1805	---	1	NO	16.00	18.00	---	---	---	---	---	---						
	87381-1808	87381-1809	---	2															
	87381-1837	---	---	3															
	87381-1817	87381-1815	87381-1820	(A2) 1	YES														
	87381-1818	87381-1819	---	2															
	87381-1838	---	---	3															
D 20	87381-2007	87381-2005	---	1	NO	18.00	20.00	---	---	---	---	---	---						
	87381-2008	87381-2009	---	2															
	87381-2037	---	---	3															
	87381-2017	87381-2015	---	1	YES														
	87381-2018	87381-2019	---	2															
	87381-2038	---	---	3															
C 22	87381-2207	87381-2205	---	1	NO	20.00	22.00	---	---	---	---	---	---						
	87381-2208	87381-2209	---	2															
	87381-2237	---	---	3															
	87381-2217	87381-2215	---	1	YES														
	87381-2218	87381-2219	---	2															
	87381-2238	---	---	3															
B 24	87381-2407	87381-2405	---	1	NO	22.00	24.00	---	---	---	---	---	---						
	87381-2408	87381-2409	---	2															
	87381-2437	---	---	3															
	87381-2417	87381-2415	---	1	YES														
	87381-2418	87381-2419	---	2															
	87381-2438	---	---	3															
A 26	87381-2607	87381-2605	---	1	NO	24.00	26.00	---	---	---	---	---	---						
	87381-2608	87381-2609	---	2															
	87381-2637	---	---	3															
	87381-2617	87381-2615	87381-2620	(A1) 1	YES									44	40.40	6.60	20.20	26.35	5.60
	87381-2618	87381-2619	---	2															
	87381-2638	---	---	3															

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC:		 <p>MGRID TOP ENTRY RECEPTACLE 4MM HEIGHT, SMT.</p> <p>PRODUCT CUSTOMER DRAWING</p>	
	▽ = 0	DIMENSION UNITS	SCALE		EC NO: 736158 DRWN: DANUSA 2023/01/23 CHK'D: DANUSA 2023/01/25 APPR: MRAMAKRISHNA 2023/02/03
	▽ = 0	mm	NTS		
	▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			INITIAL REVISION: DRWN: SCS02 2018/08/07 APPR: MRAMAKRISHNA 2019/07/09
	▽ = 0	ANGULAR TOL ± 3.0°			
	▽ = 0	4 PLACES ±			DOCUMENT NUMBER 873810001-SD
	▽ = 0	3 PLACES ±			
	▽ = 0	2 PLACES ± 0.2			DOC TYPE
	▽ = 0	1 PLACE ±			DOC PART
	▽ = 0	0 PLACES ±			REVISION
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 		
▽ = 0	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	87381	PSD	000	A2
			GENERAL MARKET		4 OF 7

DOCUMENT STATUS | P1 | RELEASE DATE | 2023/02/03 08:12:09

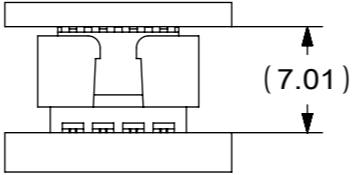
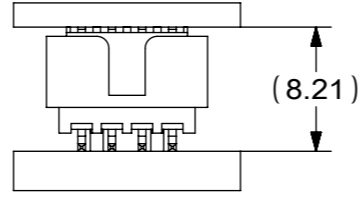
9	8	7	6	5	4	3	2	1					
CKT. SIZE	PART W/O CAP IN TUBE	PART NO. WITH CAP IN TUBE	PART NO. WITH CAP IN T&R	PLATING FINISH	PEG	A	B	W	So	Ao	F	Bo	Ko
E 28	87381-2807	87381-2805	---	1	NO	30.00	28.00	---	---	---	---	---	---
	87381-2808	87381-2809	---	2									
	87381-2837	---	---	3									
	87381-2817	87381-2815	---	1									
	87381-2818	87381-2819	---	2									
	87381-2838	---	---	3									
D 30	87381-3007	87381-3005	---	1	NO	28.00	30.00	56.00	52.40	7.00	26.20	30.50	4.80
	87381-3008	87381-3009	---	2									
	87381-3037	---	---	3									
	87381-3017	87381-3015	87381-9015	1									
	87381-3018	87381-3019	---	2									
	87381-3038	---	---	3									
D 32	87381-3207	87381-3205	---	1	NO	30.00	32.00	---	---	---	---	---	---
	87381-3208	87381-3209	---	2									
	87381-3237	---	---	3									
	87381-3217	87381-3215	---	1									
	87381-3218	87381-3219	---	2									
	87381-3238	---	---	3									
C 34	87381-3407	87381-3405	---	1	NO	32.00	34.00	---	---	---	---	---	---
	87381-3408	87381-3409	---	2									
	87381-3437	---	---	3									
	87381-3417	87381-3415	---	1									
	87381-3418	87381-3419	---	2									
	87381-3438	---	---	3									
B 36	87381-3607	87381-3605	---	1	NO	34.00	36.00	---	---	---	---	---	---
	87381-3608	87381-3609	---	2									
	87381-3637	---	---	3									
	87381-3617	87381-3615	---	1									
	87381-3618	87381-3619	---	2									
	87381-3638	---	---	3									
B 38	87381-3807	87381-3805	---	1	NO	36.00	38.00	---	---	---	---	---	---
	87381-3808	87381-3809	---	2									
	87381-3837	---	---	3									
	87381-3817	87381-3815	---	1									
	87381-3818	87381-3819	---	2									
	87381-3838	---	---	3									



SYMBOLS = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	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	CURRENT REV DESC: EC NO: 736158 DRWN: DANUSA 2023/01/23 CHK'D: DANUSA 2023/01/25 APPR: MRAMAKRISHNA 2023/02/03	 MGRID TOP ENTRY RECEPTACLE 4MM HEIGHT, SMT.	
	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 3.0°	INITIAL REVISION: DRWN: SCS02 2018/08/07 APPR: MRAMAKRISHNA 2019/07/09		PRODUCT CUSTOMER DRAWING
	4 PLACES ± 3 PLACES ± 2 PLACES ± 0.2 1 PLACE ± 0 PLACES ±	DOCUMENT NUMBER: 873810001-SD DOC TYPE: PSD DOC PART: 000 REVISION: A2		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION DRAWING: A3-SIZE SERIES: 87381 MATERIAL NUMBER: 87381 CUSTOMER: GENERAL MARKET SHEET NUMBER: 5 OF 7			

9	8	7	6	5	4	3	2	1					
CKT. SIZE	PART W/O CAP IN TUBE	PART NO. WITH CAP IN TUBE	PART NO. WITH CAP IN T&R	PLATING FINISH	PEG	A	B	W	So	Ao	F	Bo	Ko
E 40	87381-4007	87381-4005	---	1	NO	38.00	40.00	---	---	---	---	---	---
	87381-4008	87381-4009	---	2									
	87381-4037	---	---	3									
	87381-4017	87381-4015	---	1	YES								
	87381-4018	87381-4019	---	2									
	87381-4038	---	---	3									
42	87381-4207	87381-4205	---	1	NO	40.00	42.00	---	---	---	---	---	---
	87381-4208	87381-4209	---	2									
	87381-4237	---	---	3									
	87381-4217	87381-4215	---	1	YES								
	87381-4218	87381-4219	---	2									
	87381-4238	---	---	3									
D 44	87381-4407	87381-4405	---	1	NO	42.00	44.00	---	---	---	---	---	---
	87381-4408	87381-4409	---	2									
	87381-4437	---	---	3									
	87381-4417	87381-4415	---	1	YES								
	87381-4418	87381-4419	---	2									
	87381-4438	---	---	3									
C 46	87381-4607	87381-4605	---	1	NO	44.00	46.00	---	---	---	---	---	---
	87381-4608	87381-4609	---	2									
	87381-4637	---	---	3									
	87381-4617	87381-4615	---	1	YES								
	87381-4618	87381-4619	---	2									
	87381-4638	---	---	3									
48	87381-4807	87381-4805	---	1	NO	46.00	48.00	---	---	---	---	---	---
	87381-4808	87381-4809	---	2									
	87381-4837	---	---	3									
	87381-4817	87381-4815	---	1	YES								
	87381-4818	87381-4819	---	2									
	87381-4838	---	---	3									
B 50	87381-5007	87381-5005	---	1	NO	48.00	50.00	72.00	68.40	7.00	34.20	50.50	4.80
	87381-5008	87381-5009	---	2									
	87381-5037	---	---	3									
	87381-5017	87381-5015	87381-9028	1	YES								
	87381-5018	87381-5019	87381-9027	2									
	87381-5038	---	---	3									

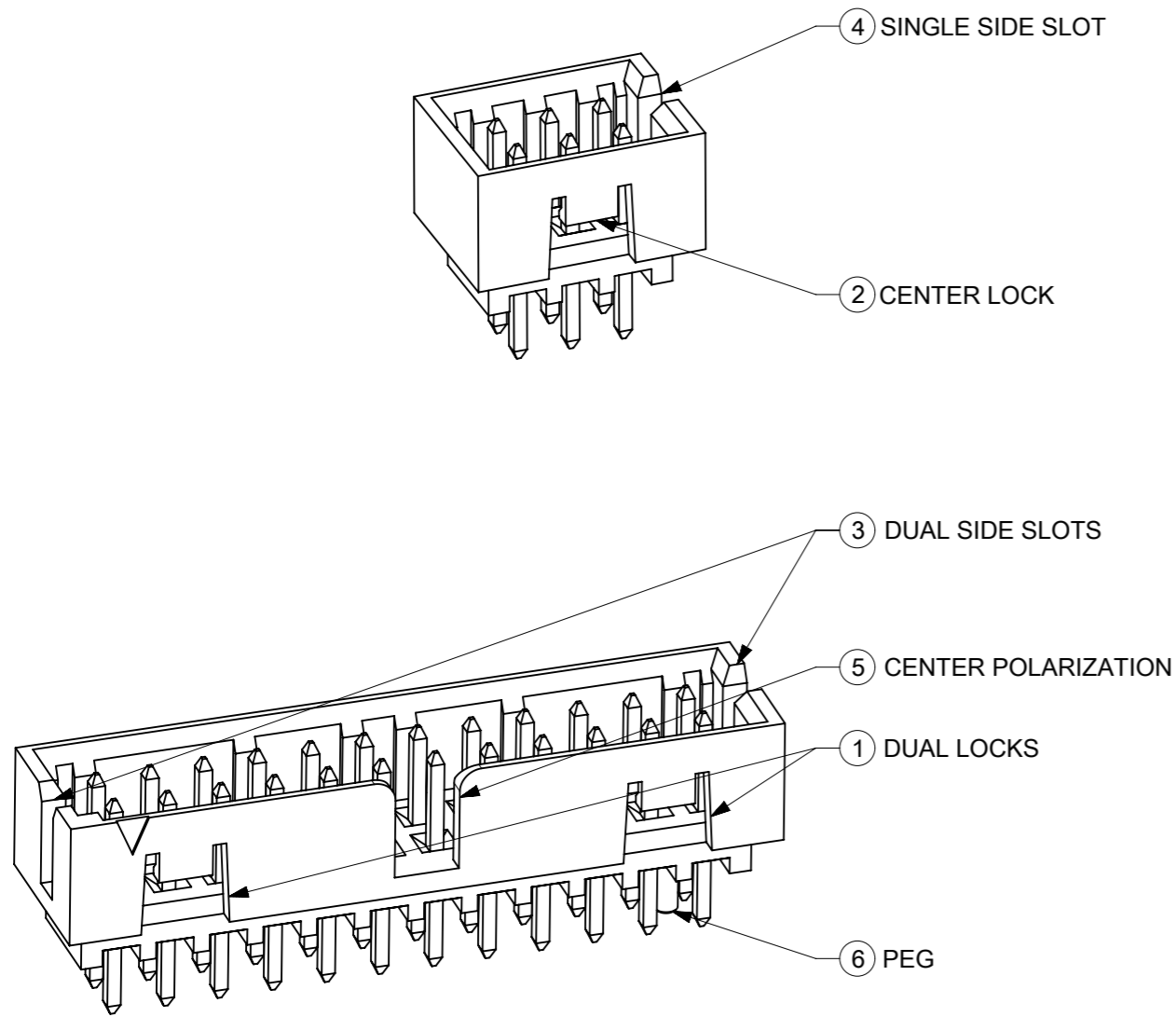
<p>SYMBOLS</p> <table border="1"> <tr> <td></td> <td>= 0</td> <td>mm</td> <td>NTS</td> </tr> <tr> <td></td> <td>= 0</td> <td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td> </tr> <tr> <td></td> <td>= 0</td> <td colspan="2">ANGULAR TOL ± 3.0°</td> </tr> <tr> <td></td> <td>= 0</td> <td>4 PLACES</td> <td>±</td> </tr> <tr> <td></td> <td>= 0</td> <td>3 PLACES</td> <td>±</td> </tr> <tr> <td></td> <td>= 0</td> <td>2 PLACES</td> <td>± 0.2</td> </tr> <tr> <td></td> <td>= 0</td> <td>1 PLACE</td> <td>±</td> </tr> <tr> <td></td> <td>= 0</td> <td>0 PLACES</td> <td>±</td> </tr> <tr> <td></td> <td>= 0</td> <td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td> </tr> <tr> <td></td> <td>= 0</td> <td colspan="2">THIRD ANGLE PROJECTION</td> </tr> </table>											= 0	mm	NTS		= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			= 0	ANGULAR TOL ± 3.0°			= 0	4 PLACES	±		= 0	3 PLACES	±		= 0	2 PLACES	± 0.2		= 0	1 PLACE	±		= 0	0 PLACES	±		= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			= 0	THIRD ANGLE PROJECTION		<p>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</p> <p>CURRENT REV DESC:</p> <p>EC NO: 736158 DRWN: DANUSA 2023/01/23 CHK'D: DANUSA 2023/01/25 APPR: MRAMAKRISHNA 2023/02/03</p> <p>INITIAL REVISION: DRWN: SCS02 2018/08/07 APPR: MRAMAKRISHNA 2019/07/09</p> <p>DRAWING: A3-SIZE SERIES: 87381 MATERIAL NUMBER: 873810001-SD CUSTOMER: GENERAL MARKET SHEET NUMBER: 6 OF 7</p>										<p>molex</p> <p>MGRID TOP ENTRY RECEPTACLE 4MM HEIGHT, SMT.</p> <p>PRODUCT CUSTOMER DRAWING</p> <p>DOCUMENT NUMBER: 873810001-SD DOC TYPE: PSD DOC PART: 000 REVISION: A2</p>									
	= 0	mm	NTS																																																																		
	= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)																																																																			
	= 0	ANGULAR TOL ± 3.0°																																																																			
	= 0	4 PLACES	±																																																																		
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	= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																																																																			
	= 0	THIRD ANGLE PROJECTION																																																																			
<p>DOCUMENT STATUS: P1 RELEASE DATE: 2023/02/03 08:12:09</p>																																																																					

BOARD TO BOARD (BTB) DISTANCE

RECEPTACLE	MATES WITH(HEADER)	BTB DISTANCE	PICTORIAL VIEW
87381	87831	7.01	
	87832	8.21	

SYMBOLS ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC:		 MGRID TOP ENTRY RECEPTACLE 4MM HEIGHT, SMT.				
	DIMENSION UNITS	SCALE	EC NO: 736158 DRWN: DANUSA 2023/01/23 CHK'D: DANUSA 2023/01/25 APPR: MRAMAKRISHNA 2023/02/03					
	mm	NTS	INITIAL REVISION: DRWN: SCS02 2018/08/07 APPR: MRAMAKRISHNA 2019/07/09					
	GENERAL TOLERANCES (UNLESS SPECIFIED)		PRODUCT CUSTOMER DRAWING			DOCUMENT NUMBER: 873810001-SD DOC TYPE: PSD DOC PART: 000 REVISION: A2		
	ANGULAR TOL ± 3.0°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NUMBER: 87381 CUSTOMER: GENERAL MARKET SHEET NUMBER: 7 OF 7		
	4 PLACES ±		THIRD ANGLE PROJECTION			DRAWING: A3-SIZE SERIES: 87381		
	3 PLACES ±					GENERAL MARKET		
	2 PLACES ± 0.2		A3-SIZE			87381		
	1 PLACE ±		A3-SIZE			87381		
	0 PLACES ±		A3-SIZE			87381		

FEATURES SELECTION GUIDE



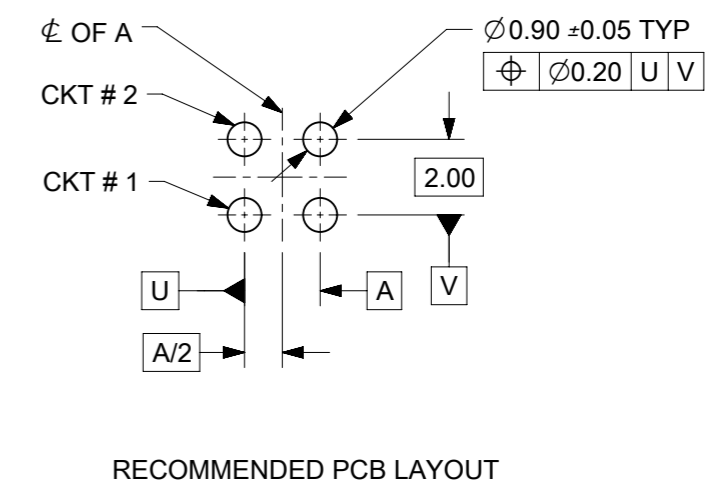
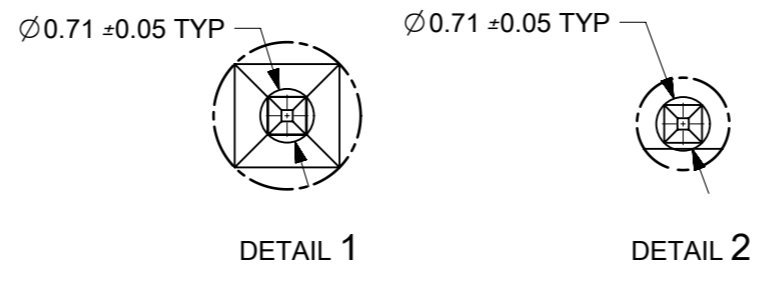
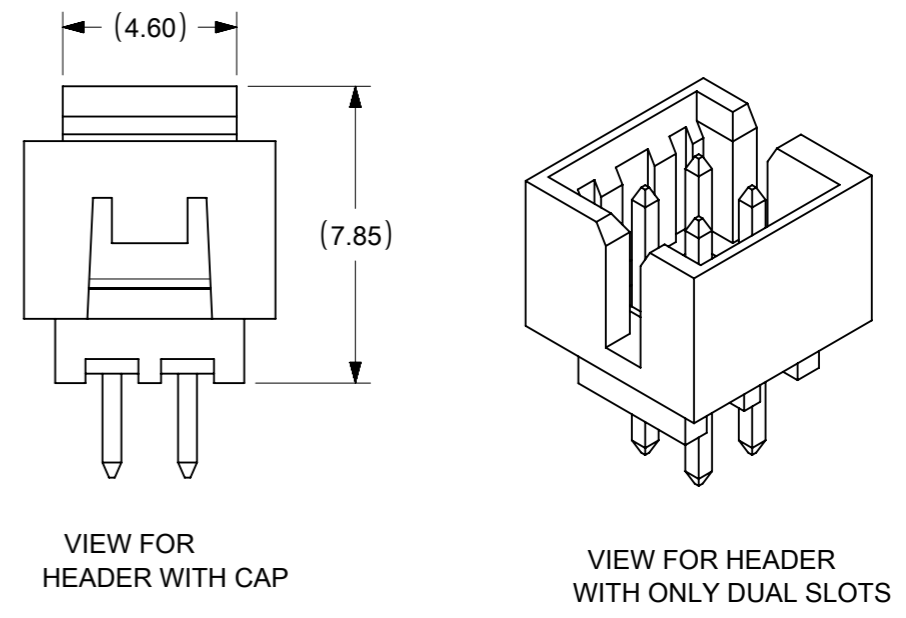
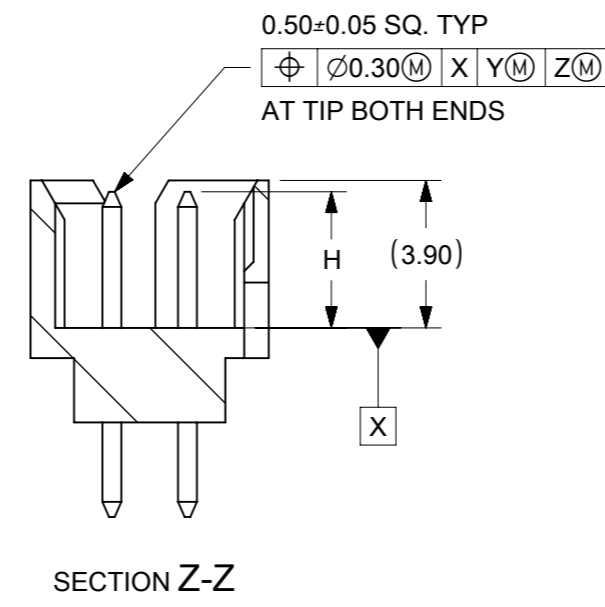
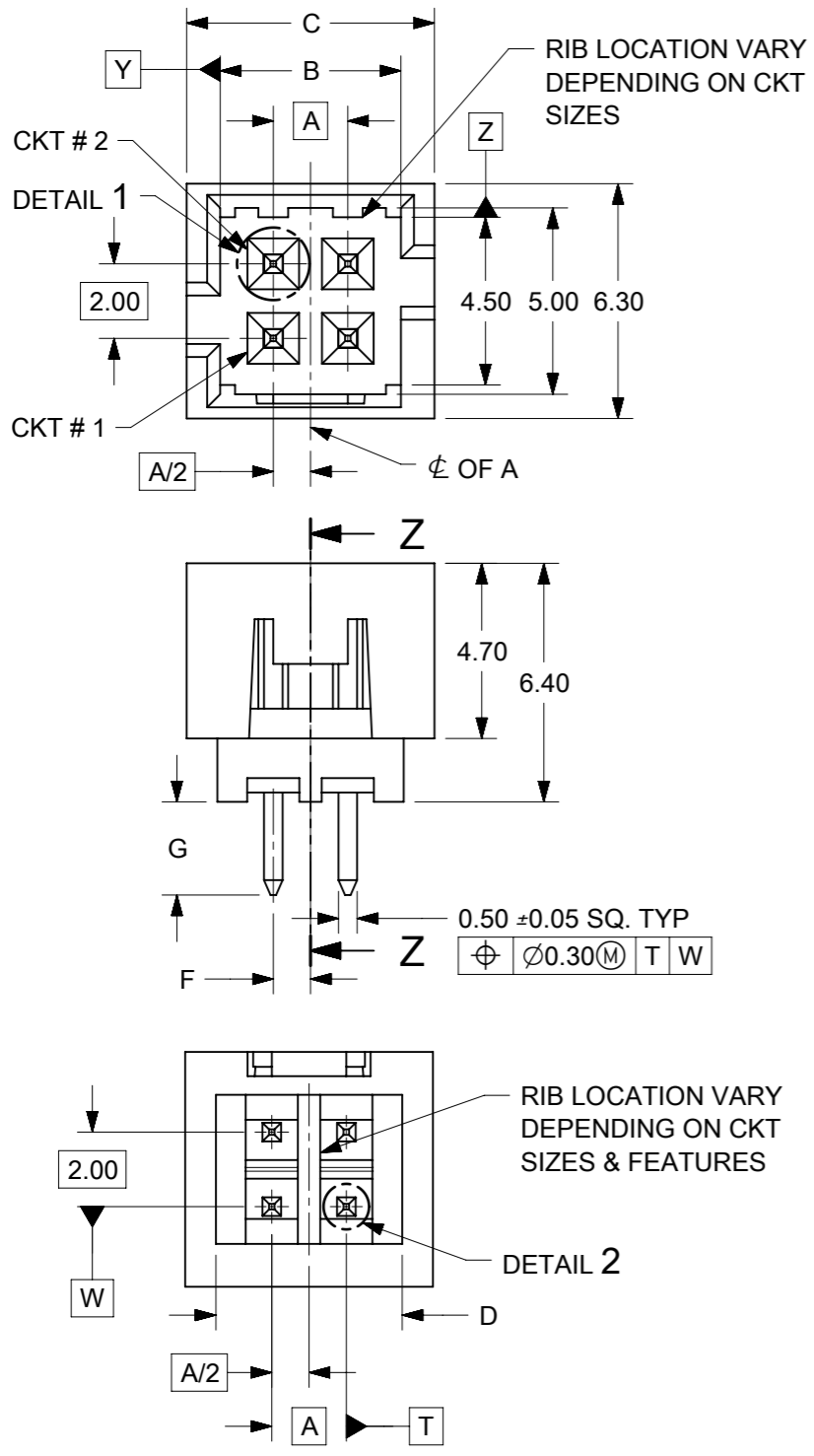
CIRCUIT SIZE	FRICTION LOCKS		SIDE SLOTS		⑤ CENTER POLARIZATION	⑥ PEG	SHEET NO
	① DUAL	② CENTER	③ DUAL	④ SINGLE			
4	N.A	N.A	YES	N.A	N.A	N.A	2 - 3
	N.A	YES	YES	N.A	N.A	N.A	
	N.A	YES	N.A	YES	N.A	N.A	
6	N.A	N.A	YES	N.A	N.A	N.A	4 - 5
	N.A	N.A	YES	N.A	N.A	YES	
	N.A	YES	YES	N.A	N.A	N.A	
	N.A	YES	YES	N.A	N.A	YES	
	N.A	YES	N.A	YES	N.A	N.A	
	N.A	N.A	YES	N.A	YES	N.A	
8 TO 12	N.A	N.A	YES	N.A	YES	N.A	6 - 8
	N.A	N.A	YES	N.A	YES	YES	
	N.A	YES	YES	N.A	N.A	N.A	
	N.A	YES	YES	N.A	N.A	YES	
	N.A	YES	N.A	YES	N.A	N.A	
	N.A	YES	N.A	YES	N.A	YES	
14 TO 50	YES	N.A	YES	N.A	YES	N.A	9 - 13
	YES	N.A	YES	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:	PK-87831-002	
87831-0419		87831-0645
87831-5141		87831-5119
87831-0443		87831-1011
87831-5241		87831-1420
87831-5242		
87831-0643		

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: ADDED BTB DIST.		
	DIMENSION UNITS SCALE GENERAL TOLERANCES (UNLESS SPECIFIED)	mm NTS			
4 PLACES ± 3 PLACES ± 2 PLACES ± 0.2 ± 1 PLACE ± ± 0 PLACES ± ± ANGULAR TOL ± 3.0°	MM INCH	EC NO: 619055 DRWN: NMANE02 2019/03/25 CHK'D: NMANE02 2019/07/09 APPR: MRAMAKRISHNA 2019/07/09			PRODUCT CUSTOMER DRAWING
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING A3-SIZE	SERIES 87831	MATERIAL NUMBER SEE TABLE	CUSTOMER GENERAL MARKET
		INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29	DOCUMENT NUMBER SD-87831-0001	DOC TYPE PSD	DOC PART 001
				REVISION A16	SHEET NUMBER 1 OF 14

4 CIRCUITS



- 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)


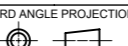
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	DIMENSION UNITS	SCALE			
▽ = 0	mm	NTS			2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				PRODUCT CUSTOMER DRAWING
▽ = 0		MM	INCH		DOCUMENT NUMBER
▽ = 0	4 PLACES ±				SD-87831-0001
▽ = 0	3 PLACES ±				DOC TYPE
▽ = 0	2 PLACES ±	0.2			PSD
▽ = 0	1 PLACE ±				DOC PART
▽ = 0	0 PLACES ±				001
▽ = 0	ANGULAR TOL ±	3.0°			REVISION
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	A16
▽ = 0				SERIES	
				87831	
				MATERIAL NUMBER	
				SEE TABLE	
				CUSTOMER	
				GENERAL MARKET	
					SHEET NUMBER
					2 OF 14

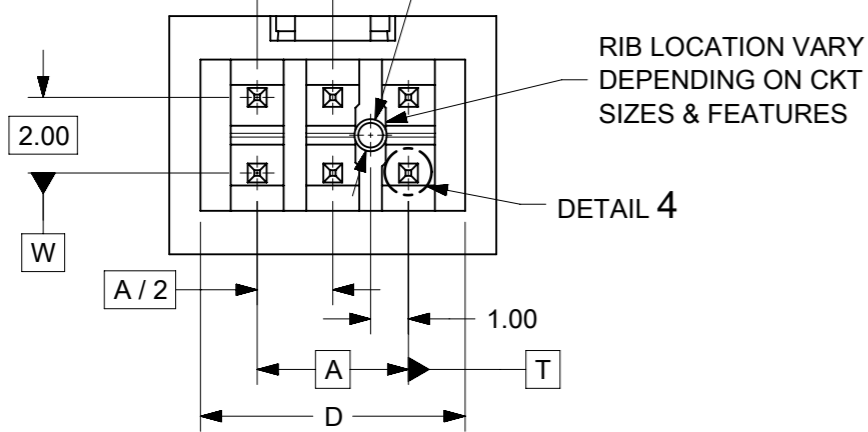
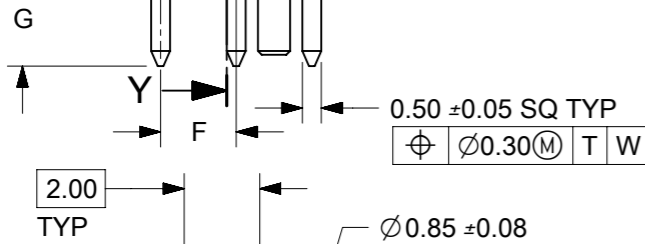
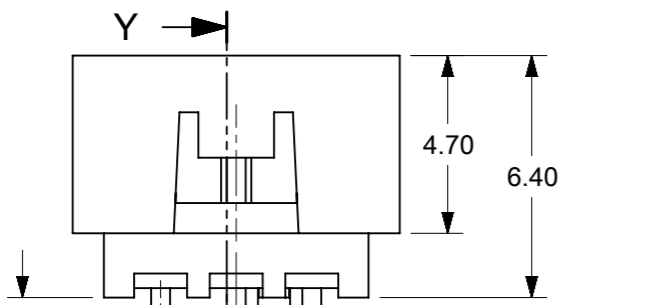
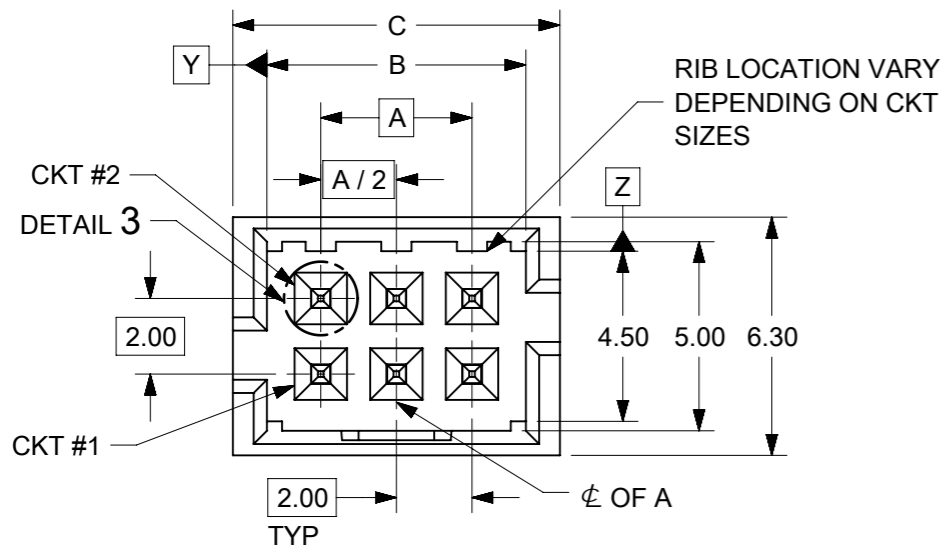
4 CIRCUITS

CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION													
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H						
4	87831-0419	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	2.00	4.85	6.65	5.00	N.A	N.A	2.50	3.60±0.20						
	87831-0420	N.A	N.A	2																				
	87831-0421	N.A	N.A	3																				
	87831-0436	N.A	N.A	4																				
	87831-0441	87831-0456	N.A	2	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	1.00	2.50	3.60±0.20
	87831-0442	N.A	87831-5565	3																				
	87831-5141	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	1.00	3.50	3.60±0.20
	87831-5142	N.A	N.A	3																				
	87831-6141	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	1.00	2.80	3.60±0.20
	87831-6142	N.A	N.A	3																				
	87831-0443	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A						N.A	N.A		N.A	N.A	N.A	1.00	2.50	3.60±0.20
	87831-0444	N.A	N.A	3																				

PLATING OPTIONS:

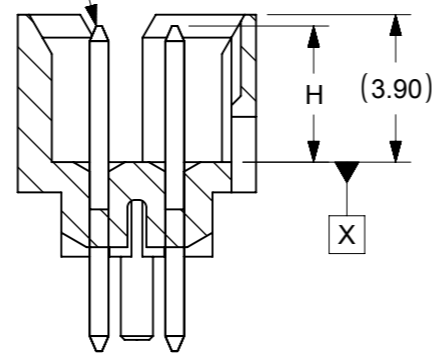
- 1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.
- 2 - 0.38µm/15µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.
- 3 - 0.76µm/30µin GOLD IN CONTACT 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.

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: ADDED BTB DIST.		
	DIMENSION UNITS	SCALE			
▽ = 0	mm	NTS			2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				PRODUCT CUSTOMER DRAWING
▽ = 0					
▽ = 0	4 PLACES ±	±	EC NO: 619055		DOCUMENT NUMBER
▽ = 0	3 PLACES ±	±	DRWN: NMANE02	2019/03/25	
▽ = 0	2 PLACES ±	0.2 ±	CHK'D: NMANE02	2019/07/09	DOC TYPE
▽ = 0	1 PLACE ±	±	APPR: MRAMAKRISHNA	2019/07/09	DOC PART
▽ = 0	0 PLACES ±	±	INITIAL REVISION:		REVISION
▽ = 0	ANGULAR TOL ±	3.0°	DRWN: GMENARLY	2015/04/15	PSD
▽ = 0			APPR: KHLIM	2015/06/29	
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER
▽ = 0			A3-SIZE	87831	CUSTOMER
					SEE TABLE
					GENERAL MARKET
					SHEET NUMBER
					3 OF 14

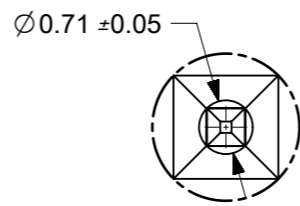


6 CIRCUITS

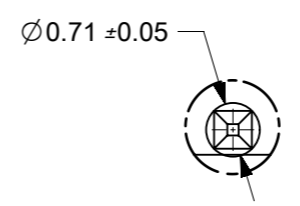
0.50±0.05 SQ TYP
 $\phi \quad \phi 0.30(M) \quad X \quad Y(M) \quad Z(M)$
 AT TIP BOTH ENDS



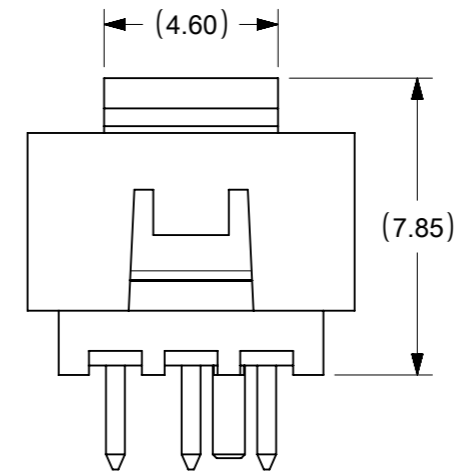
SECTION Y-Y



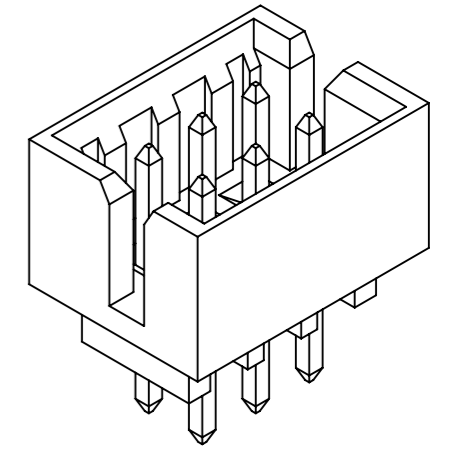
DETAIL 3



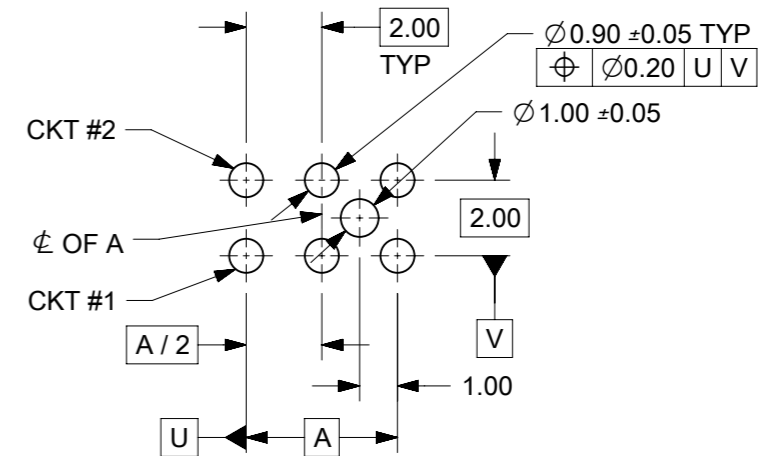
DETAIL 4



VIEW FOR HEADER WITH CAP



VIEW FOR HEADER WITH ONLY DUAL SLOTS



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)

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			CURRENT REV DESC: ADDED BTB DIST.					
	DIMENSION UNITS	SCALE				EC NO: 619055 DRWN: NMANE02 2019/03/25 CHK'D: NMANE02 2019/07/09 APPR: MRAMAKRISHNA 2019/07/09	MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER PRODUCT CUSTOMER DRAWING		
∇ = 0 ∇ = 0 ∇ = 0 ∇ = 0 ∇ = 0 ∇ = 0 ∇ = 0 ∇ = 0 ∇ = 0 ∇ = 0	mm	NTS		INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29	DOCUMENT NUMBER			DOC TYPE	DOC PART
GENERAL TOLERANCES (UNLESS SPECIFIED)		MM	INCH		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SD-87831-0001		PSD	001
		ANGULAR TOL ± 3.0°		THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER
					A3-SIZE	87831	SEE TABLE	GENERAL MARKET	4 OF 14

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	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION													
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H						
6	87831-0619	N.A	N.A	1	N.A	N.A	YES	N.A	N.A	N.A	4.00	6.85	8.65	7.00	N.A	N.A	2.50	3.60±0.20						
	87831-0620	N.A	N.A	2																				
	87831-0621	N.A	N.A	3																				
	87831-0636	N.A	N.A	4	N.A	N.A	YES	N.A	N.A	YES						N.A	N.A		N.A	N.A	N.A	N.A	N.A	2.50
	87831-0628	N.A	N.A	2																				
	87831-0629	N.A	N.A	3																				
	87831-0641	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	N.A	N.A	2.50
	87831-0642	N.A	87831-5552	3																				
	87831-5241	N.A	N.A	2																				
	87831-5242	N.A	N.A	3	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	N.A	N.A	3.50
	87831-6241	N.A	N.A	2																				
	87831-6242	N.A	N.A	3																				
	87831-0643	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A						N.A	N.A		N.A	N.A	N.A	N.A	N.A	2.80
	87831-0644	N.A	N.A	3																				
	87831-0645	N.A	N.A	2																				
	87831-0646	N.A	N.A	3	N.A	YES	N.A	YES	N.A	N.A						YES	N.A		N.A	N.A	N.A	N.A	N.A	2.50
	87831-0632	N.A	N.A	2																				
87831-0632	N.A	N.A	2																					
87831-5119	N.A	N.A	1	N.A	N.A	YES	N.A	YES	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	2.50							
87831-5121	N.A	N.A	3																					
87831-5136	N.A	N.A	4																					

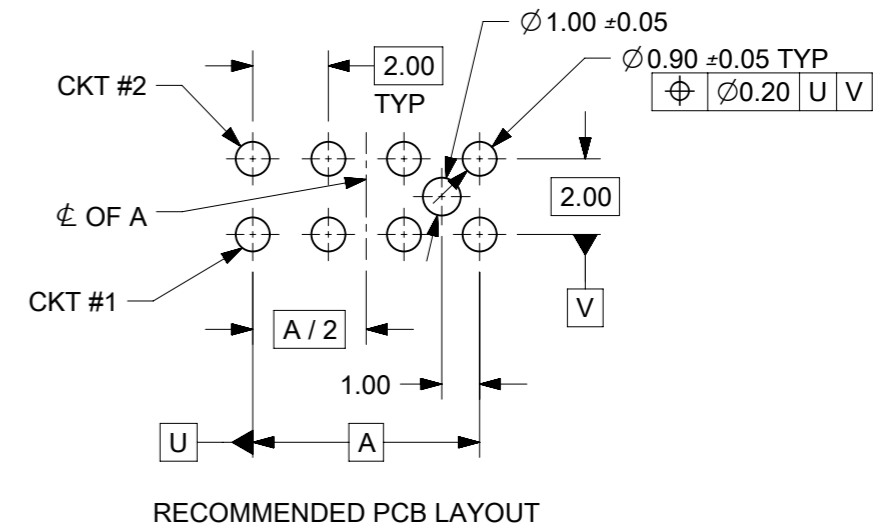
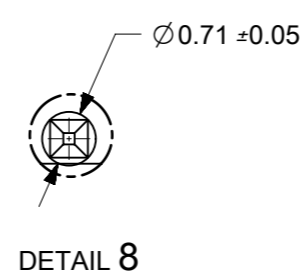
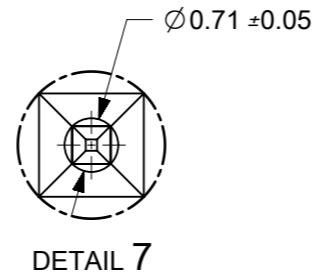
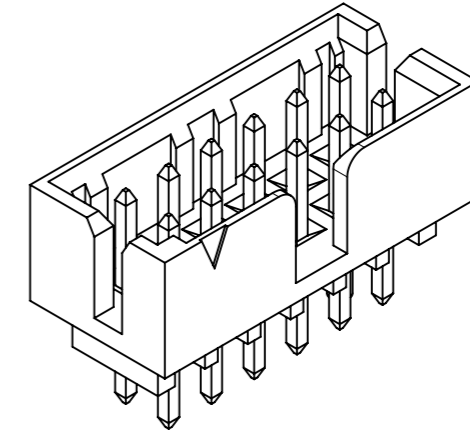
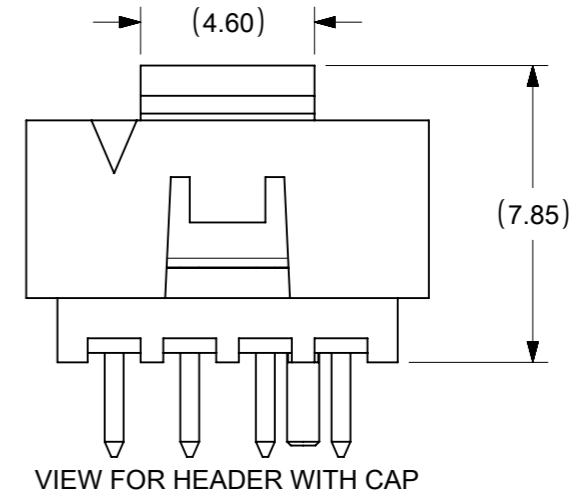
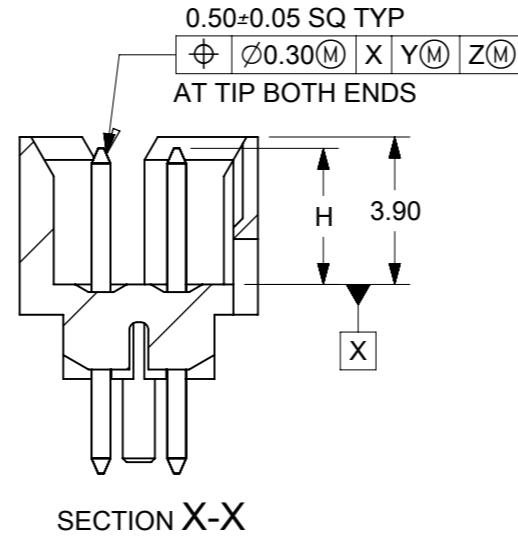
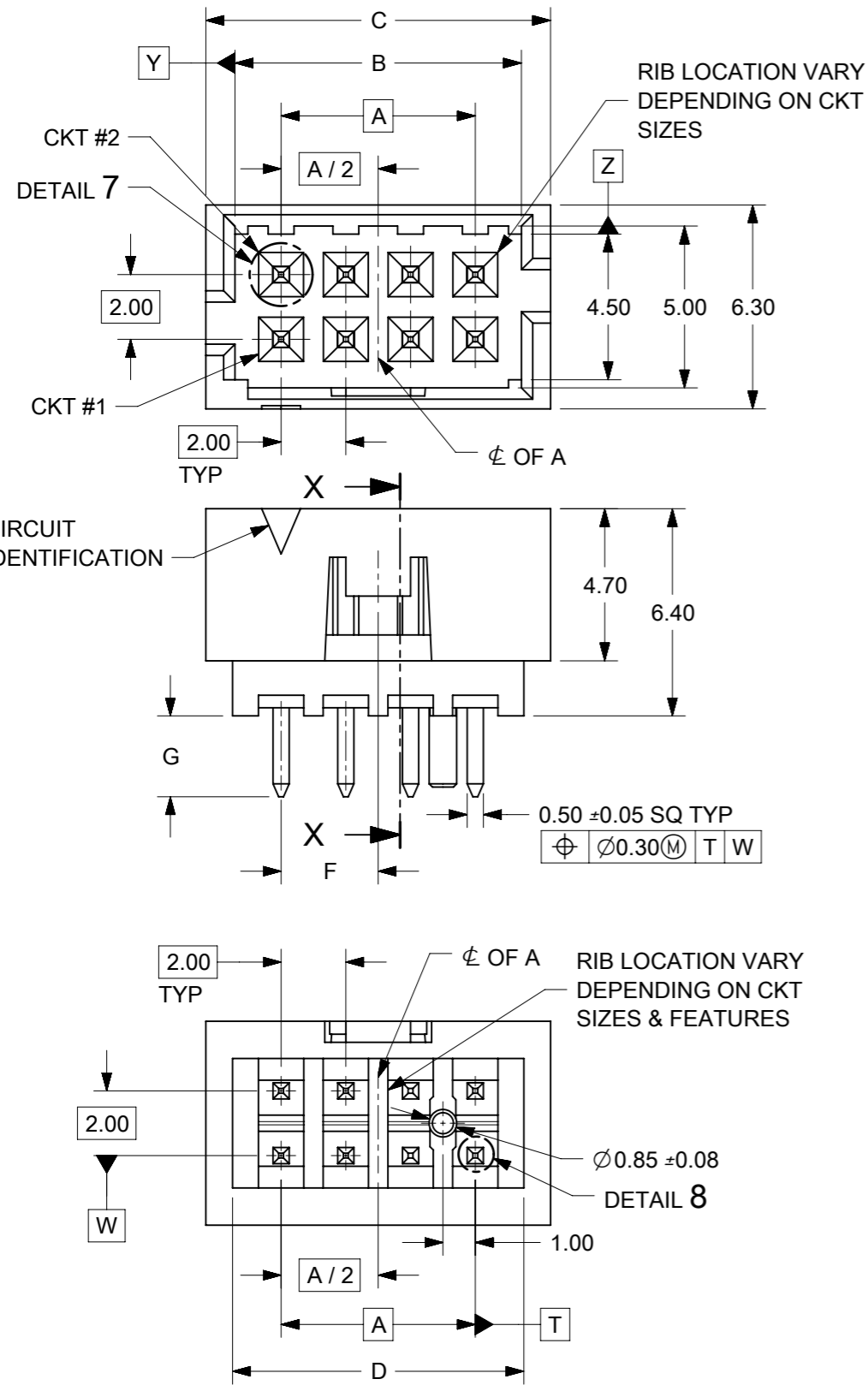
PLATING OPTIONS:

- 1 - 0.05-0.13µm/2-5µm GOLD IN CONTACT AREA AND 1.88µm/75µm MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µm MIN. NICKEL OVERALL.
- 2 - 0.38µm/15µm GOLD IN CONTACT AREA AND 1.88µm/75µm MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µm MIN. NICKEL OVERALL.
- 3 - 0.76µm/30µm GOLD IN CONTACT AREA AND 1.88µm/75µm MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µm MIN. NICKEL OVERALL.
- 4 - 2.50µm/100µm MIN. MATTE TIN OVER 1.25µm/50µm MIN. NICKEL OVERALL.

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: ADDED BTB DIST.		molex	
	DIMENSION UNITS	SCALE	GENERAL TOLERANCES (UNLESS SPECIFIED)			
▽ = 0	mm	NTS	EC NO: 619055		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER	
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: NMANE02 2019/03/25			
▽ = 0	MM INCH		CHK'D: NMANE02 2019/07/09		PRODUCT CUSTOMER DRAWING	
▽ = 0	4 PLACES ±		APPR: MRAMAKRISHNA 2019/07/09			
▽ = 0	3 PLACES ±		INITIAL REVISION:		DOCUMENT NUMBER	
▽ = 0	2 PLACES ± 0.2		DRWN: GMENARLY 2015/04/15		SD-87831-0001	
▽ = 0	1 PLACE ±		APPR: KHLIM 2015/06/29		DOC TYPE DOC PART REVISION	
▽ = 0	0 PLACES ±		THIRD ANGLE PROJECTION		PSD 001 A16	
▽ = 0	ANGULAR TOL ± 3.0°		DRAWING		SHEET NUMBER	
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SERIES		5 OF 14	
▽ = 0			MATERIAL NUMBER		CUSTOMER	
▽ = 0			A3-SIZE 87831		SEE TABLE GENERAL MARKET	

DOCUMENT STATUS	P1	RELEASE DATE	2019/07/09	06:47:12
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8 TO 12 CIRCUITS



- 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)

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: ADDED BTB DIST.	
	DIMENSION UNITS	SCALE		
▽ = 0	mm	NTS		
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			
▽ = 0		MM	INCH	
▽ = 0	4 PLACES ±			
▽ = 0	3 PLACES ±			
▽ = 0	2 PLACES ±	0.2		
▽ = 0	1 PLACE ±			
▽ = 0	0 PLACES ±			
▽ = 0	ANGULAR TOL ±	3.0°		
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			
▽ = 0	THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER
▽ = 0		A3-SIZE	87831	SEE TABLE
		EC NO: 619055	DRWN: NMANE02	2019/03/25
		CHK'D: NMANE02	2019/07/09	
		APPR: MRAMAKRISHNA	2019/07/09	
		INITIAL REVISION:		DOCUMENT NUMBER
		DRWN: GMENARLY	2015/04/15	SD-87831-0001
		APPR: KHLIM	2015/06/29	DOC TYPE DOC PART REVISION
				PSD 001 A16
		CUSTOMER	SHEET NUMBER	
		GENERAL MARKET	6 OF 14	

8 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	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION														
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H							
8	87831-0819	N.A	N.A	1	N.A	N.A	YES	N.A	YES	N.A	6.00	8.85	10.65	9.00	N.A	N.A	2.50	3.60±0.20							
	87831-0820	N.A	N.A	2																					
	87831-0821	N.A	N.A	3																					
	87831-0836	N.A	N.A	4																					
	87831-0828	N.A	N.A	2	N.A	N.A	YES	N.A	YES	YES						N.A	N.A		N.A	N.A	N.A	N.A	2.50		
	87831-0829	N.A	N.A	3																					
	87831-0841	N.A	87831-5551	2	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	N.A	N.A	2.50	
	87831-0842	N.A	N.A	3																					
	87831-5841	N.A	N.A	2																					
	87831-5441	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	N.A	N.A	3.50	
	87831-5442	N.A	N.A	3																					
	87831-5541	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	N.A	N.A	2.80	
	87831-5542	N.A	N.A	3																					
	87831-5741	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	N.A	N.A	N.A	4.70
	87831-5742	N.A	N.A	3																					
	87831-0832	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						YES	N.A		N.A	N.A	N.A	N.A	N.A	N.A	2.50
	87831-0843	N.A	N.A	2																					
	87831-0844	N.A	N.A	3	N.A	YES	N.A	YES	N.A	N.A						N.A	N.A		N.A	N.A	N.A	N.A	N.A	N.A	2.50
87831-0845	N.A	N.A	2																						
87831-0846	N.A	N.A	3	N.A	YES	N.A	YES	N.A	YES	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	2.50							

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 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.

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	DIMENSION UNITS	SCALE
▽ = 0	mm	NTS
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
▽ = 0	MM	INCH
▽ = 0	4 PLACES ±	±
▽ = 0	3 PLACES ±	±
▽ = 0	2 PLACES ±	0.2 ±
▽ = 0	1 PLACE ±	±
▽ = 0	0 PLACES ±	±
▽ = 0	ANGULAR TOL ±	3.0°
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
▽ = 0	THIRD ANGLE PROJECTION	DRAWING
CURRENT REV DESC: ADDED BTB DIST.		SERIES
EC NO: 619055		MATERIAL NUMBER
DRWN: NMANE02 2019/03/25		CUSTOMER
CHK'D: NMANE02 2019/07/09		GENERAL MARKET
APPR: MRAMAKRISHNA 2019/07/09		SHEET NUMBER
INITIAL REVISION:		7 OF 14
DRWN: GMENARLY 2015/04/15		
APPR: KHLIM 2015/06/29		
DOCUMENT NUMBER		
SD-87831-0001		
DOC TYPE		
PSD		
DOC PART		
001		
REVISION		
A16		

10 TO 12 CIRCUITS

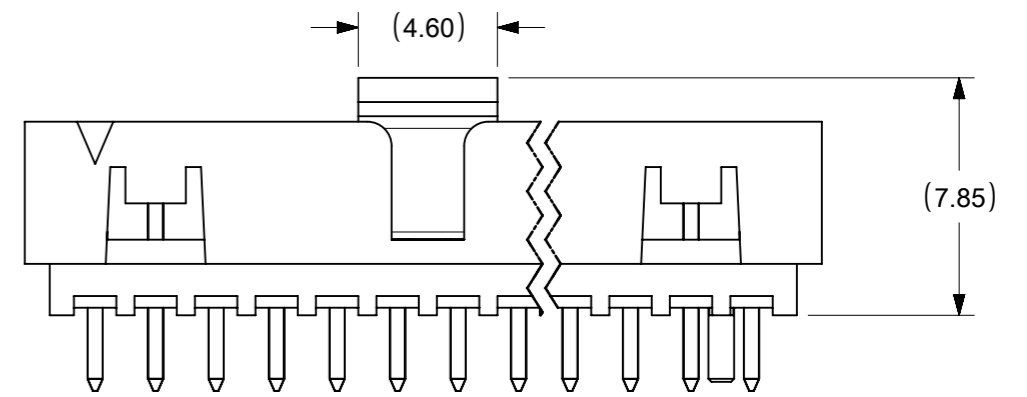
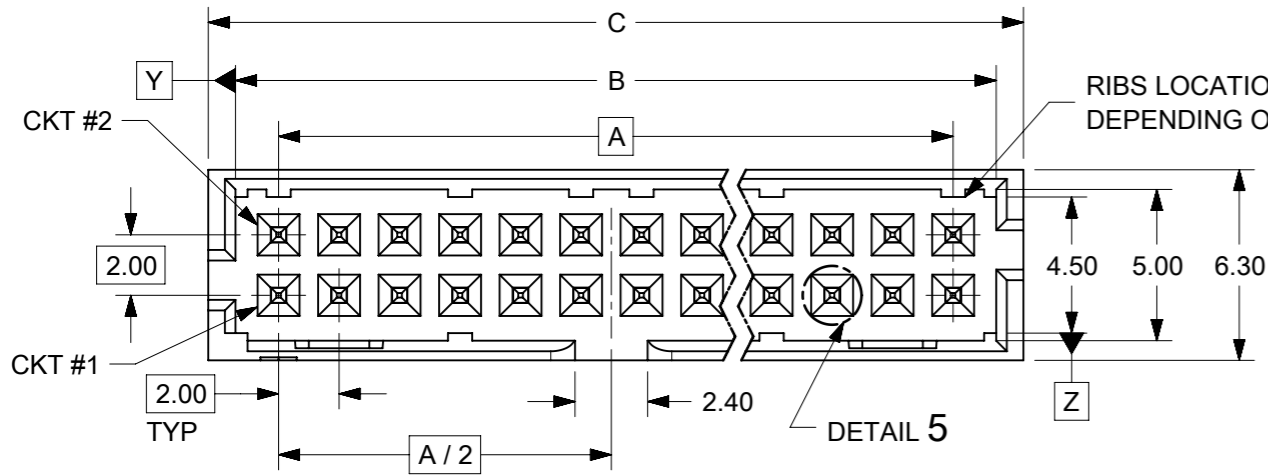
CKT SIZE	ASSY P/N WITHOUT CAP IN TUBE	ASSY P/N WITH CAP IN TUBE	ASSY P/N WITH CAP IN T&R	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION														
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H							
10	87831-1019	N.A	N.A	1	N.A	N.A	YES	N.A	YES	N.A	8.00	10.85	12.65	11.00	N.A	N.A	2.50	3.60±0.20							
	87831-1020	N.A	N.A	2																					
	87831-1021	N.A	87831-5562	3																					
	87831-1036	N.A	N.A	4																					
	87831-1010	N.A	87831-5561	2																					
	87831-1011	N.A	N.A	3																					
	87831-1028	N.A	N.A	2	N.A	N.A	YES	N.A	YES	YES						N.A	N.A		N.A	N.A	N.A	4.00	2.50	3.60 ^{+0.15} _{-0.10}	
	87831-1029	N.A	87831-5557	3																					
	87831-1035	N.A	N.A	3																					
	87831-1041	N.A	N.A	2	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	N.A	N.A	N.A	N.A
	87831-1042	N.A	87831-5553	3																					
	87831-1032	N.A	N.A	2																					
	87831-1043	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A						N.A	N.A		N.A	N.A	N.A	N.A	N.A	N.A	N.A
	87831-1044	N.A	N.A	3																					
	87831-1045	N.A	N.A	2																					
87831-1046	N.A	N.A	3	N.A	YES	N.A	YES	N.A	YES	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A							
87831-1219	N.A	N.A	1																						
87831-1220	N.A	87831-5556	2																						
87831-1221	N.A	N.A	3	N.A	N.A	YES	N.A	YES	N.A	10.00	12.85	14.65	13.00	N.A	N.A	2.50	3.60±0.20								
87831-1236	N.A	N.A	4																						
87831-1228	N.A	N.A	2																						
87831-1229	N.A	87831-5558	3																						
87831-1258	N.A	A13 87831-5567	2																						
87831-1241	N.A	N.A	2																						
87831-1242	N.A	N.A	3	N.A	YES	YES	N.A	N.A	N.A						N.A	N.A		N.A	N.A	N.A	N.A	N.A	N.A	N.A	
87831-1255	87831-1256	N.A	2																						
87831-1232	N.A	N.A	2																						
87831-1243	N.A	N.A	2	N.A	YES	N.A	YES	N.A	N.A						N.A	N.A		N.A	N.A	N.A	N.A	N.A	N.A	N.A	
87831-1244	N.A	N.A	3																						
87831-1245	N.A	N.A	2																						
87831-1246	N.A	N.A	3	N.A	YES	N.A	YES	N.A	YES						N.A	N.A		N.A	N.A	N.A	N.A	N.A	N.A	N.A	
87831-1255	87831-1256	N.A	2																						
87831-1232	N.A	N.A	2																						

PLATING OPTIONS:

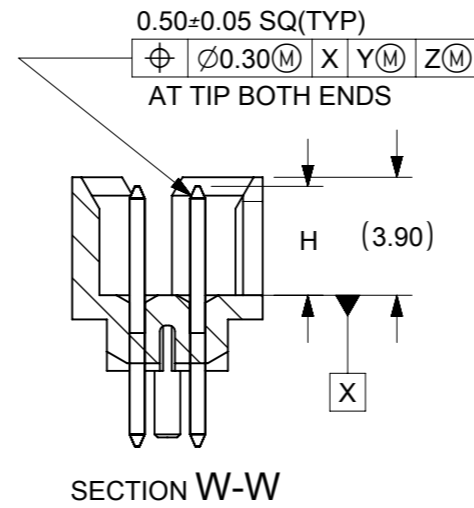
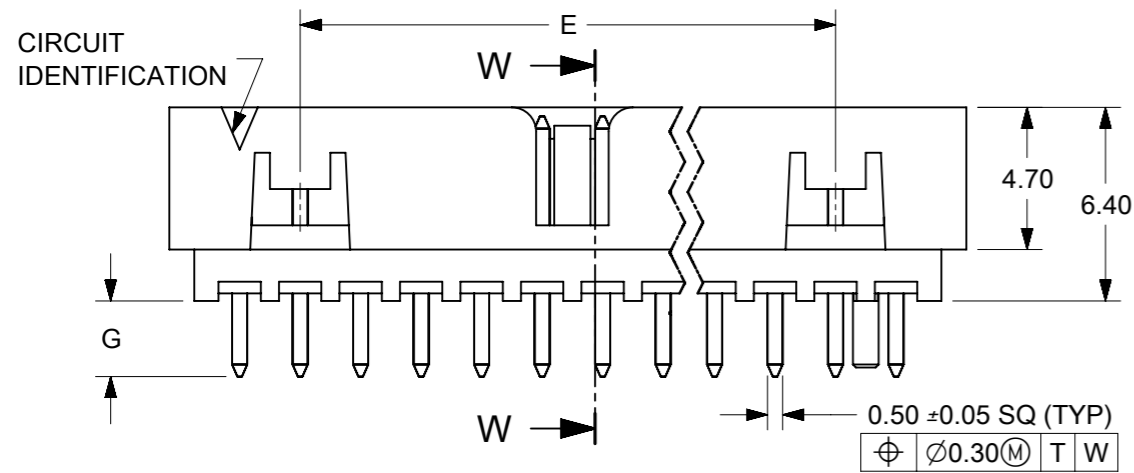
- 1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.
- 2 - 0.38µm/15µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.
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- 4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	DIMENSION UNITS	SCALE
▽ = 0	mm	NTS
▽ = 0	CURRENT REV DESC: ADDED BTB DIST.	
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
▽ = 0	MM	INCH
▽ = 0	4 PLACES ±	±
▽ = 0	3 PLACES ±	±
▽ = 0	2 PLACES ±	0.2 ±
▽ = 0	1 PLACE ±	±
▽ = 0	0 PLACES ±	±
▽ = 0	ANGULAR TOL ±	3.0°
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
▽ = 0	THIRD ANGLE PROJECTION	DRAWING
▽ = 0	SERIES	MATERIAL NUMBER
▽ = 0	A3-SIZE	87831
▽ = 0	EC NO: 619055	DRWN: NMANE02 2019/03/25
▽ = 0	CHK'D: NMANE02 2019/07/09	APPR: MRAMAKRISHNA 2019/07/09
▽ = 0	INITIAL REVISION:	DRWN: GMENARLY 2015/04/15
▽ = 0	APPR: KHLIM 2015/06/29	SD-87831-0001
▽ = 0	DOCUMENT NUMBER	DOC TYPE DOC PART REVISION
▽ = 0	PSD	001 A16
▽ = 0	CUSTOMER	SHEET NUMBER
▽ = 0	GENERAL MARKET	8 OF 14

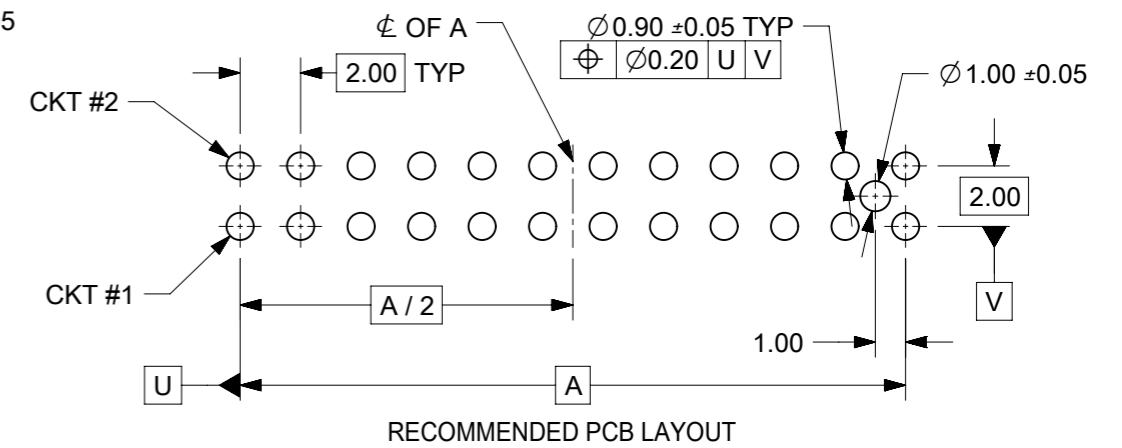
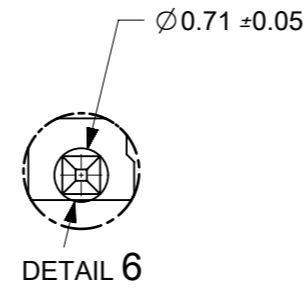
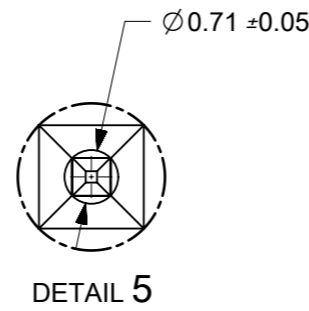
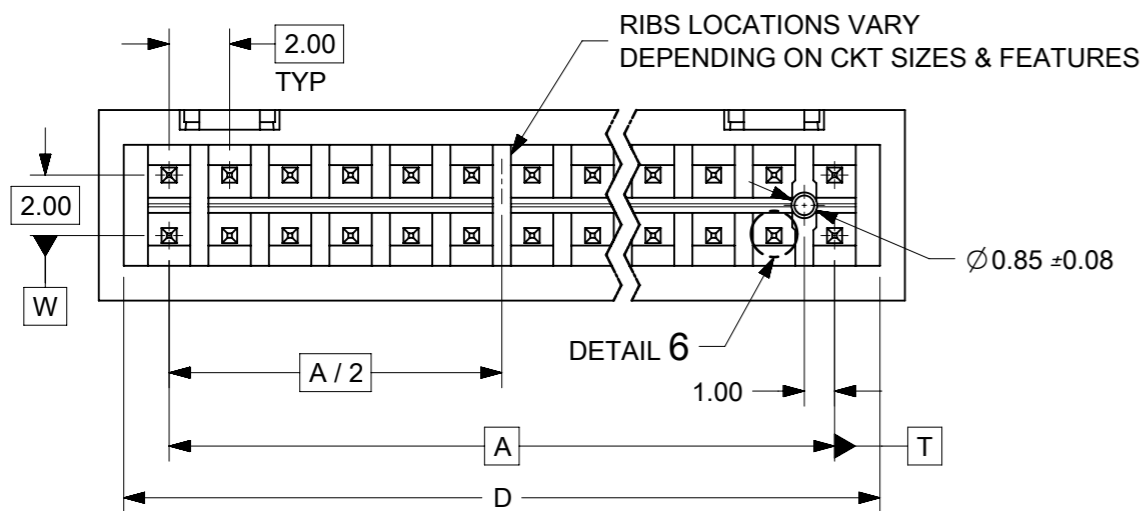
14 TO 50 CIRCUITS



VIEW FOR HEADER WITH CAP



SECTION W-W



RECOMMENDED PCB LAYOUT

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)

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: ADDED BTB DIST.		molex	
	DIMENSION UNITS	SCALE				
▽ = 0	mm	NTS			2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER	
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				PRODUCT CUSTOMER DRAWING	
▽ = 0		MM	INCH			DOCUMENT NUMBER
▽ = 0	4 PLACES ±			EC NO: 619055		DOC TYPE
▽ = 0	3 PLACES ±			DRWN: NMANE02	2019/03/25	DOC PART
▽ = 0	2 PLACES ±	0.2		CHK'D: NMANE02	2019/07/09	REVISION
▽ = 0	1 PLACE ±			APPR: MRAMAKRISHNA	2019/07/09	
▽ = 0	0 PLACES ±			INITIAL REVISION:		
▽ = 0	ANGULAR TOL ±	3.0°		DRWN: GMENARLY	2015/04/15	SD-87831-0001
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER
▽ = 0				A3-SIZE	87831	CUSTOMER
				SEE TABLE	GENERAL MARKET	SHEET NUMBER
						9 OF 14

14 TO 20 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	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
14	87831-1419	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	12.00	14.85	16.65	15.00	8.00	N.A	2.50	3.60±0.20
	87831-1420	87831-1430	87831-5554	2														
	87831-1421	N.A	87831-5560	3														
	87831-1436	N.A	N.A	4														
	87831-1428	N.A	(A14) 87831-5564	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-1429	N.A	87831-5563	3														
	87831-1435	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50	
	87831-1410	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A							3.50	
87831-1411	N.A	N.A	3															
16	87831-1619	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	14.00	16.85	18.65	17.00	10.00	N.A	2.50	3.60±0.20
	87831-1620	N.A	N.A	2														
	87831-1621	N.A	N.A	3														
	87831-1636	N.A	N.A	4														
	87831-1628	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-1629	N.A	87831-5559	3														
	87831-1635	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50	
18	87831-1819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	16.00	18.85	20.65	19.00	12.00	N.A	2.50	3.60±0.20
	87831-1820	N.A	87831-5566	2														
	87831-1821	N.A	N.A	3														
	87831-1836	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-1828	N.A	N.A	2														
	87831-1829	N.A	N.A	3														
20	87831-2019	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	18.00	20.85	22.65	21.00	14.00	N.A	2.50	3.60±0.20
	87831-2020	N.A	N.A	2														
	87831-2021	N.A	N.A	3														
	87831-2036	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-2028	N.A	N.A	2														
	87831-2029	N.A	N.A	3														
	87831-2035	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50	
	87831-2010	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A							3.50	
	87831-2011	N.A	(A13) 87831-2041	3														

PLATING OPTIONS:

- 1 - 0.05-0.13µm/2-5µm GOLD IN CONTACT AREA AND 1.88µm/75µm MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µm MIN. NICKEL OVERALL.
- 2 - 0.38µm/15µm GOLD IN CONTACT AREA AND 1.88µm/75µm MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µm MIN. NICKEL OVERALL.
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- 4 - 2.50µm/100µm MIN. MATTE TIN OVER 1.25µm/50µm MIN. NICKEL OVERALL.


SYMBOLS ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0	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		CURRENT REV DESC: ADDED BTB DIST.		MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER				
	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 619055 DRWN: NMANE02 2019/03/25 CHK'D: NMANE02 2019/07/09 APPR: MRAMAKRISHNA 2019/07/09					PRODUCT CUSTOMER DRAWING	
	4 PLACES ± 0.2 3 PLACES ± 0.2 2 PLACES ± 0.2 1 PLACE ± 0.2 0 PLACES ± 0.2 ANGULAR TOL ± 3.0°		INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29		DOCUMENT NUMBER: SD-87831-0001		DOC TYPE: PSD	DOC PART: 001	REVISION: A16
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING: A3-SIZE	SERIES: 87831	MATERIAL NUMBER: SEE TABLE	CUSTOMER: GENERAL MARKET	SHEET NUMBER: 10 OF 14	

22 TO 30 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	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
						DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
22	87831-2219	N.A	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	20.00	22.85	24.65	23.00	16.00	N.A	2.50	3.60±0.20
	87831-2220	N.A	N.A	N.A	2														
	87831-2221	N.A	N.A	N.A	3														
	87831-2236	N.A	N.A	N.A	4														
	87831-2228	N.A	N.A	N.A	2														
	87831-2229	N.A	N.A	N.A	3														
24	87831-2419	N.A	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	22.00	24.85	26.65	25.00	18.00	N.A	2.50	3.60±0.20
	87831-2420	N.A	N.A	87831-7420	2														
	87831-2421	N.A	N.A	N.A	3														
	87831-2436	N.A	N.A	N.A	4														
	87831-2428	N.A	N.A	N.A	2														
	87831-2429	N.A	N.A	N.A	3														
	87831-2435	N.A	N.A	N.A	3														
	87831-2445	N.A	N.A	N.A	3														
87831-2410	N.A	N.A	N.A	2															
26	87831-2619	N.A	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	24.00	26.85	28.65	27.00	20.00	N.A	2.50	3.60±0.20
	87831-2620	87831-2630	87831-5555	N.A	2														
	87831-2621	N.A	N.A	N.A	3														
	87831-2636	N.A	N.A	N.A	4														
	87831-2628	N.A	N.A	N.A	2														
	87831-2629	N.A	N.A	N.A	3														
	87831-2610	N.A	N.A	N.A	2														
28	87831-2819	N.A	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	26.00	28.85	30.65	29.00	22.00	N.A	2.50	3.60±0.20
	87831-2820	N.A	N.A	N.A	2														
	87831-2821	N.A	N.A	N.A	3														
	87831-2836	N.A	N.A	N.A	4														
	87831-2828	N.A	N.A	N.A	2														
	87831-2829	N.A	N.A	N.A	3														
30	87831-3019	N.A	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	28.00	30.85	32.65	31.00	24.00	N.A	2.50	3.60±0.20
	87831-3020	N.A	N.A	N.A	2														
	87831-3021	N.A	N.A	N.A	3														
	87831-3036	N.A	N.A	N.A	4														
	87831-3028	N.A	N.A	N.A	2														
	87831-3029	N.A	N.A	N.A	3														
	87831-3035	N.A	N.A	N.A	3														
	87831-3010	87831-3030	87831-3050	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 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 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.


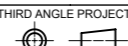
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
	DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED BTB DIST.						
	mm		NTS		 MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER						
	GENERAL TOLERANCES (UNLESS SPECIFIED)										
▽ = 0	4 PLACES ±	MM	INCH	EC NO: 619055							
▽ = 0	3 PLACES ±	DRWN: NMANE02 2019/03/25									
▽ = 0	2 PLACES ± 0.2	CHK'D: NMANE02 2019/07/09									
▽ = 0	1 PLACE ±	APPR: MRAMAKRISHNA 2019/07/09									
▽ = 0	ANGULAR TOL ± 3.0°	INITIAL REVISION:									
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER	
▽ = 0		A3-SIZE		87831		SEE TABLE		GENERAL MARKET		11 OF 14	

32 TO 40 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	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
32	87831-3219	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	30.00	32.85	34.65	33.00	26.00	N.A	2.50	3.60±0.20
	87831-3220	N.A	N.A	2														
	87831-3221	N.A	N.A	3														
	87831-3236	N.A	N.A	4														
	87831-3228	N.A	N.A	2														
	87831-3229	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							2.50	
34	87831-3419	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	32.00	34.85	36.65	35.00	28.00	N.A	2.50	3.60±0.20
	87831-3420	N.A	N.A	2														
	87831-3421	N.A	N.A	3														
	87831-3436	N.A	N.A	4														
	87831-3428	N.A	N.A	2														
	87831-3429	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-3435	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50	
36	87831-3619	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	34.00	36.85	38.65	37.00	30.00	N.A	2.50	3.60±0.20
	87831-3620	N.A	87831-5564	2														
	87831-3621	N.A	N.A	3														
	87831-3636	N.A	N.A	4														
	87831-3628	N.A	N.A	2														
	87831-3629	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							2.50	
38	87831-3819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	36.00	38.85	40.65	39.00	32.00	N.A	2.50	3.60±0.20
	87831-3820	N.A	N.A	2														
	87831-3821	N.A	N.A	3														
	87831-3836	N.A	N.A	4														
	87831-3828	N.A	N.A	2														
	87831-3829	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							2.50	
40	87831-4019	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	38.00	40.85	42.65	41.00	34.00	N.A	2.50	3.60±0.20
	87831-4020	N.A	N.A	2														
	87831-4021	N.A	N.A	3														
	87831-4036	N.A	N.A	4														
	87831-4028	N.A	N.A	2														
	87831-4029	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-4010	N.A	N.A	2	YES	N.A	YES	N.A	YES	N.A							3.50	

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 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.

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: ADDED BTB DIST.					
▽ = 0	mm	NTS		 MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER						
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)									
▽ = 0			MM	INCH	EC NO: 619055					
▽ = 0	4 PLACES	±			DRWN: NMANE02 2019/03/25					
▽ = 0	3 PLACES	±			CHK'D: NMANE02 2019/07/09					
▽ = 0	2 PLACES	±	0.2		APPR: MRAMAKRISHNA 2019/07/09					
▽ = 0	1 PLACE	±			INITIAL REVISION:					
▽ = 0	0 PLACES	±			DRWN: GMENARLY 2015/04/15					
▽ = 0	ANGULAR TOL		±	3.0°	APPR: KHLIM 2015/06/29					
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
▽ = 0						A3-SIZE	87831	SEE TABLE	GENERAL MARKET	12 OF 14

DOCUMENT STATUS	P1	RELEASE DATE	2019/07/09	06:47:12
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42 TO 50 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	PLATING OPTIONS	FRICTION LOCKS		SIDE SLOTS		CENTER POLARIZATION	PEG	DIMENSION							
					DUAL	CENTER	DUAL	SINGLE			A	B	C	D	E	F	G	H
42	87831-4219	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	40.00	42.85	44.65	43.00	36.00	N.A	2.50	3.60±0.20
	87831-4220	N.A	N.A	2														
	87831-4221	N.A	N.A	3														
	87831-4236	N.A	N.A	4														
	87831-4228	N.A	N.A	2														
	87831-4229	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							2.50	
44	87831-4419	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	42.00	44.85	46.65	45.00	38.00	N.A	2.50	3.60±0.20
	87831-4420	N.A	N.A	2														
	87831-4421	N.A	N.A	3														
	87831-4436	N.A	N.A	4														
	87831-4428	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-4429	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES							3.50	
	87831-4435	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES								
46	87831-4619	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	44.00	46.85	48.65	47.00	40.00	N.A	2.50	3.60±0.20
	87831-4620	N.A	N.A	2														
	87831-4621	N.A	N.A	3														
	87831-4636	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-4628	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES								
	87831-4629	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES								
48	87831-4819	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	46.00	48.85	50.65	49.00	42.00	N.A	2.50	3.60±0.20
	87831-4820	N.A	N.A	2														
	87831-4821	N.A	N.A	3														
	87831-4836	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-4828	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES								
	87831-4829	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES								
50	87831-5019	N.A	N.A	1	YES	N.A	YES	N.A	YES	N.A	48.00	50.85	52.65	51.00	44.00	N.A	2.50	3.60±0.20
	87831-5020	N.A	N.A	2														
	87831-5021	N.A	N.A	3														
	87831-5036	N.A	N.A	4	YES	N.A	YES	N.A	YES	YES							2.50	
	87831-5028	N.A	N.A	2	YES	N.A	YES	N.A	YES	YES								
	87831-5029	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES								
	87831-5035	N.A	N.A	3	YES	N.A	YES	N.A	YES	YES								

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 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.

SYMBOLS ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION CURRENT REV DESC: ADDED BTB DIST.	SCALE mm NTS	 MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER PRODUCT CUSTOMER DRAWING	EC NO: 619055 DRWN: NMANE02 2019/03/25 CHK'D: NMANE02 2019/07/09 APPR: MRAMAKRISHNA 2019/07/09	INITIAL REVISION: DRWN: GMENARLY 2015/04/15 APPR: KHLIM 2015/06/29	DOCUMENT NUMBER SD-87831-0001	DOC TYPE PSD	DOC PART 001	REVISION A16
	GENERAL TOLERANCES (UNLESS SPECIFIED)								
	DIMENSION UNITS								
	ANGULAR TOL ± 3.0°								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING A3-SIZE	SERIES 87831	MATERIAL NUMBER SEE TABLE	CUSTOMER GENERAL MARKET	SHEET NUMBER 13 OF 14		

BOARD TO BOARD (BTB) DISTANCE

HEADER	MATES WITH (RECEPTACLE)	BTB DIST.	PICTORIAL VIEW
87831	79107	6.94	
	78787	6.94	
	79108	6.94	
	79109	7.15	
	78788	7.15	

SYMBOLS = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	DIMENSION UNITS mm NTS	SCALE NTS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION CURRENT REV DESC: ADDED BTB DIST.		
	GENERAL TOLERANCES (UNLESS SPECIFIED)		molex MILLIGRID 2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER		
		MM			
		4 PLACES ±	±	EC NO: 619055 DRWN: NMANE02 2019/03/25 CHK'D: NMANE02 2019/07/09 APPR: MRAMAKRISHNA 2019/07/09	PRODUCT CUSTOMER DRAWING
	3 PLACES ±	±	INITIAL REVISION: DRWN: DRWN BY XXXX/XX/XX APPR: APPR BY XXXX/XX/XX	DOCUMENT NUMBER SD-87831-0001	DOC TYPE PSD
	2 PLACES ±	0.2	ANGULAR TOL ± 3.0°	DOC PART 001	REVISION A16
	1 PLACE ±	±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NUMBER 87831	CUSTOMER GENERAL MARKET
	0 PLACES ±	±	THIRD ANGLE PROJECTION 	SERIES A3-SIZE	SHEET NUMBER 14 OF 14