

FIRST CIRCUIT MARK  
(NOT SHOWING ON 2  
AND 3 CIRCUITS SERIES)

ASSEMBLY CODE

FIRST CIRCUIT

HOUSING

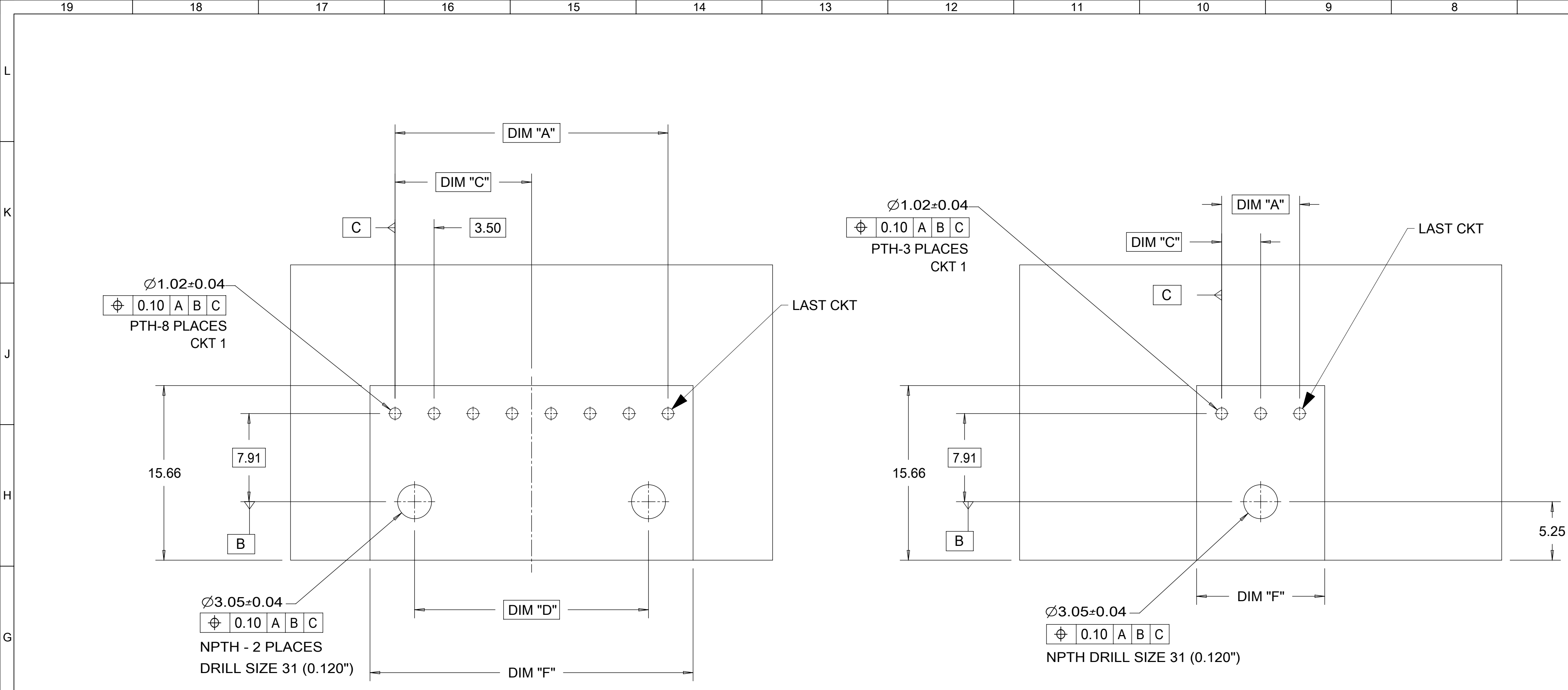
TERMINAL PIN

SECTION Y-Y  
SCALE 8:1

NOTES:

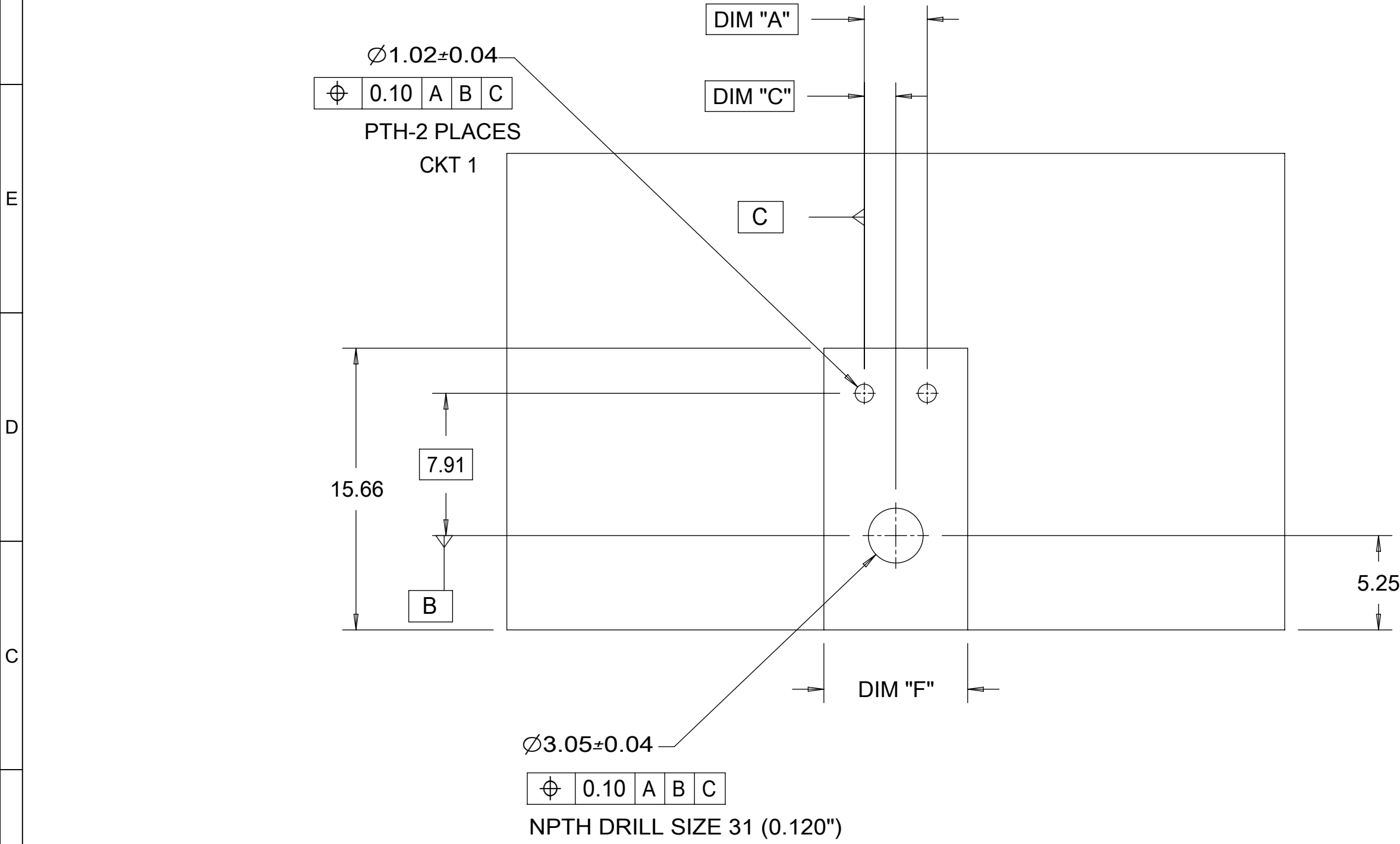
- MATERIAL :  
HOUSING  
OPTION 1: LCP BLACK, UL94 V-0  
OPTION 2: LCP NATURAL, UL94 V-0  
TERMINAL: COPPER ALLOY
- PLATING FINISH:  
OPTION 1 - 1.5µm(60µin)-2.5µm(100µin) TIN OVER  
1.25µm(50µin)-2.5µm(100µin) NICKEL OVERALL  
OPTION 2 - 0.35µm(15µin) GOLD CONTACT AREA,  
1.5µm(60µin)-2.5µm(100µin) TIN TAIL AREA OVER  
1.25µm(50µin)-2.5µm(100µin) NICKEL OVERALL  
OPTION 3 - 0.70µm(30µin) GOLD CONTACT AREA,  
1.5µm(60µin)-2.5µm(100µin) TIN TAIL AREA OVER  
1.25µm(50µin)-2.5µm(100µin) NICKEL OVERALL
- PARTS TO BE PACKAGED PER PK-172310-9001
- PRODUCT SPECIFICATION PS-172323-0001
- PART MATES WITH MOLEX RECEPTACLE HOUSING  
172256 AND 172260
- PART CONFORMS TO CLASS "C" REQUIREMENTS OF SPECIFICATION  
PS-45499-002 WITH 0.13 MM MAXIMUM FLASH ALLOWED IN CORE  
HOLES AND FRONT SURFACE.
- DISCOLORATION IN THE BANDOLIER AREA OF THE PIN IS  
INHERENT TO THE PLATING PROCESS AND IS DUE TO THE MASKING  
EFFECT OF THE CARRIER. THIS DISCOLORATION IS IN A NON-FUNCTIONAL  
AREA OF THE PIN AND WILL NOT AFFECT THE PERFORMANCE OF THE  
HEADER ASSEMBLY.
- ASSEMBLY SPECIFICATION: AS-172323-0001

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
	= 0	2016/03/29 2016/04/05 2016/03/29 103949 PPEREZ03 CHKD: RHODGE REV/ APPR: RHODGE	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE					
	= 0		ANGULAR TOL ± °		mm	4:1					
	= 0		4 PLACES ±		DRWN BY	DATE					
	= 0		3 PLACES ±		DROSCA	2014/03/05					
	= 0		2 PLACES ± 0.25		CHK'D BY	DATE					
	= 0	C2	1 PLACE ± 0.5		APPR BY	DATE	PRODUCT CUSTOMER DRAWING				
	= 0		0 PLACES ±		JCOMERCI	2014/04/24					
	= 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE	THIRD ANGLE PROJECTION	SERIES	MATERIAL NUMBER	CUSTOMER		
	= 0				D		172310		GENERAL MARKET		
	= 0						DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER	
							SD-172310-1000	PSD	000	1 OF 3	



PCB LAYOUT 4,5,6,7 AND 8 COMPONENT SIDE  
RECOMENDED PCB THICKNESS 1.60MM-2.40MM

PCB LAYOUT 3 CIRCUIT COMPONENT SIDE  
RECOMENDED PCB THICKNESS 1.60MM-2.40MM



PCB LAYOUT 2 CIRCUIT COMPONENT SIDE  
RECOMENDED PCB THICKNESS 1.60MM-2.40MM

NOTE: DATUM -A- IS ON PCB COMPONENT SIDE

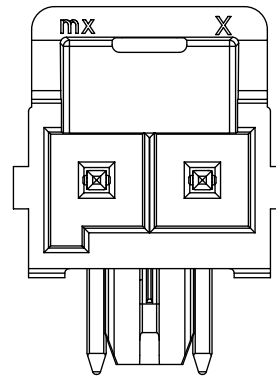
TIN PLATING							
PART NO.	COLOR	CIRCUIT SIZE	KEY OPTION	DIM A	DIM F	DIM C	DIM D
172310-1102	BLACK	2	KEY A	3.50	8.00	1.75	0.00
172310-1103	BLACK	3	KEY A	7.00	11.50	3.50	0.00
172310-1104	BLACK	4	KEY A	10.50	15.00	5.25	7.00
172310-1105	BLACK	5	KEY A	14.00	18.50	7.00	10.50
172310-1106	BLACK	6	KEY A	17.50	22.00	8.75	14.00
172310-1107	BLACK	7	KEY A	21.00	25.50	10.50	17.50
172310-1108	BLACK	8	KEY A	24.50	29.00	12.25	21.00
172310-2102	NATURAL	2	KEY B	3.50	8.00	1.75	0.00
172310-2103	NATURAL	3	KEY B	7.00	11.50	3.50	0.00
172310-2104	NATURAL	4	KEY B	10.50	15.00	5.25	7.00
172310-2105	NATURAL	5	KEY B	14.00	18.50	7.00	10.50
172310-2106	NATURAL	6	KEY B	17.50	22.00	8.75	14.00
172310-2107	NATURAL	7	KEY B	21.00	25.50	10.50	17.50
172310-2108	NATURAL	8	KEY B	24.50	29.00	12.25	21.00

15 MICROINCH GOLD PLATING							
PART NO.	COLOR	CIRCUIT SIZE	KEY OPTION	DIM A	DIM F	DIM C	DIM D
172310-1202	BLACK	2	KEY A	3.50	8.00	1.75	0.00
172310-1203	BLACK	3	KEY A	7.00	11.50	3.50	0.00
172310-1204	BLACK	4	KEY A	10.50	15.00	5.25	7.00
172310-1205	BLACK	5	KEY A	14.00	18.50	7.00	10.50
172310-1206	BLACK	6	KEY A	17.50	22.00	8.75	14.00
172310-1207	BLACK	7	KEY A	21.00	25.50	10.50	17.50
172310-1208	BLACK	8	KEY A	24.50	29.00	12.25	21.00
172310-2202	NATURAL	2	KEY B	3.50	8.00	1.75	0.00
172310-2203	NATURAL	3	KEY B	7.00	11.50	3.50	0.00
172310-2204	NATURAL	4	KEY B	10.50	15.00	5.25	7.00
172310-2205	NATURAL	5	KEY B	14.00	18.50	7.00	10.50
172310-2206	NATURAL	6	KEY B	17.50	22.00	8.75	14.00
172310-2207	NATURAL	7	KEY B	21.00	25.50	10.50	17.50
172310-2208	NATURAL	8	KEY B	24.50	29.00	12.25	21.00

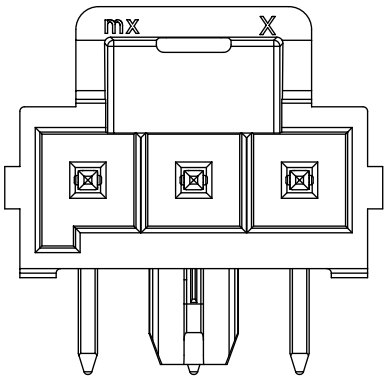
30 MICROINCH GOLD PLATING							
PART NO.	COLOR	CIRCUIT SIZE	KEY OPTION	DIM A	DIM F	DIM C	DIM D
172310-1302	BLACK	2	KEY A	3.50	8.00	1.75	0.00
172310-1303	BLACK	3	KEY A	7.00	11.50	3.50	0.00
172310-1304	BLACK	4	KEY A	10.50	15.00	5.25	7.00
172310-1305	BLACK	5	KEY A	14.00	18.50	7.00	10.50
172310-1306	BLACK	6	KEY A	17.50	22.00	8.75	14.00
172310-1307	BLACK	7	KEY A	21.00	25.50	10.50	17.50
172310-1308	BLACK	8	KEY A	24.50	29.00	12.25	21.00
172310-2302	NATURAL	2	KEY B	3.50	8.00	1.75	0.00
172310-2303	NATURAL	3	KEY B	7.00	11.50	3.50	0.00
172310-2304	NATURAL	4	KEY B	10.50	15.00	5.25	7.00
172310-2305	NATURAL	5	KEY B	14.00	18.50	7.00	10.50
172310-2306	NATURAL	6	KEY B	17.50	22.00	8.75	14.00
172310-2307	NATURAL	7	KEY B	21.00	25.50	10.50	17.50
172310-2308	NATURAL	8	KEY B	24.50	29.00	12.25	21.00

OPTION 1: LATCH FLUSH WITH PCB EDGE  
OPTION 2: HOUSING BODY FLUSH WITH PCB EDGE

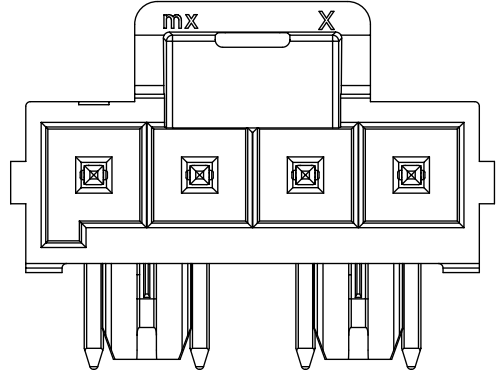
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		<div>molex®</div> <div>ULTRA-FIT R/A HEADER 2-8 CKTS SINGLE ROW</div>	
	= 0			mm		4:1			
	= 0			DRWN BY		DATE			
	= 0			DROSCA		2014/03/05			
	= 0	4 PLACES ±		CHK'D BY		DATE		PRODUCT CUSTOMER DRAWING	
	= 0	3 PLACES ±		APPR BY		DATE			
	= 0	2 PLACES ± 0.25							
	= 0	1 PLACE ± 0.5							
	= 0	0 PLACES ±		JCOMERCI		2014/04/24		SERIES	
	= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION			
	= 0			D				172310	
	= 0	C2		REV		DOCUMENT NUMBER		GENERAL MARKET	
						SD-172310-1000			
						DOC TYPE			
						DOC PART			
						SHEET NUMBER		2 OF 3	



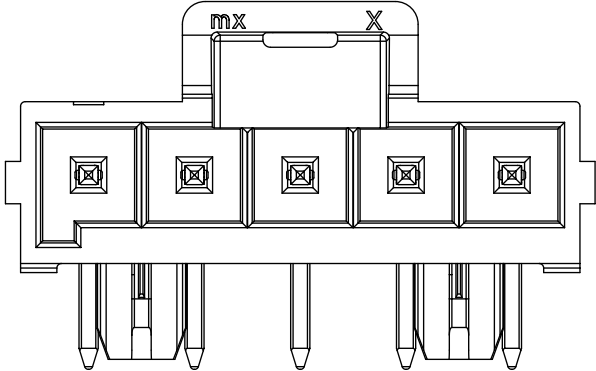
2 CKT



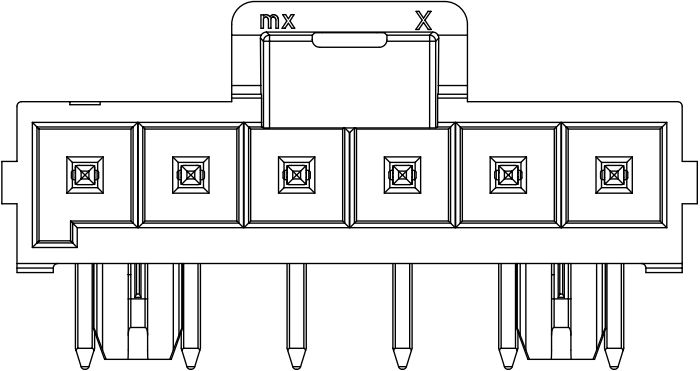
3 CKT



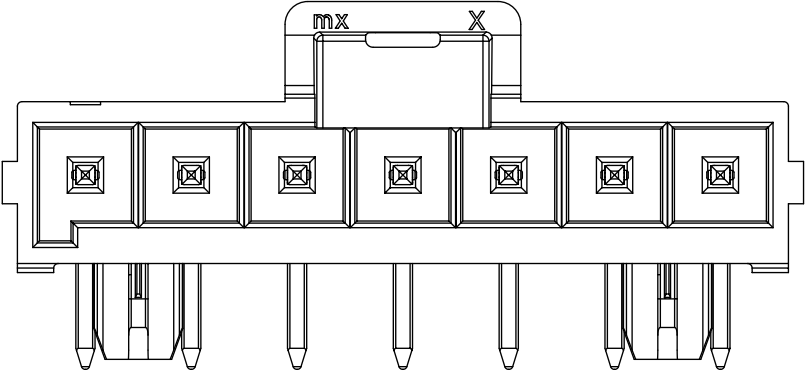
4 CKT



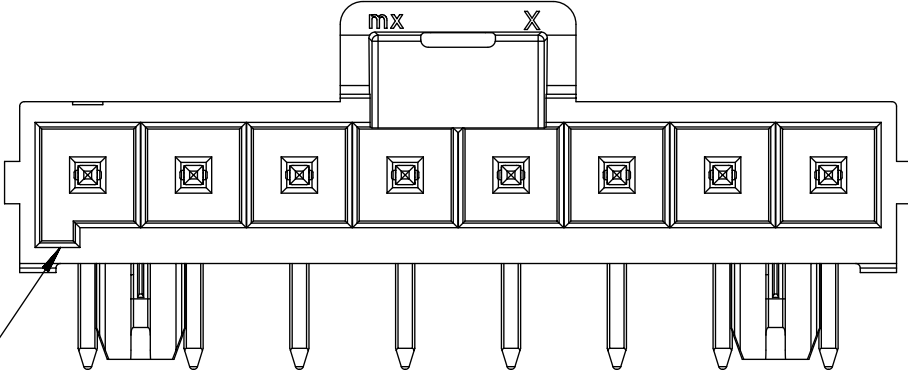
5 CKT



6 CKT

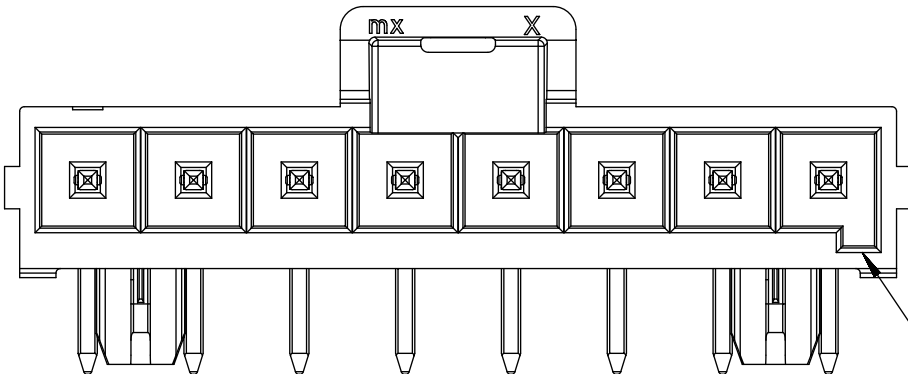


7 CKT



8 CKT

KEY A  
(BLACK)



KEY B  
(NATURAL)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																
QUALITY SYMBOLS	<div>2016/03/29</div> <div>2016/04/05</div> <div>2016/03/29</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		<div>molex®</div> <div>ULTRA-FIT R/A HEADER</div> <div>2-8 CKTS SINGLE ROW</div>								
				mm		4:1										
				DRWN BY		DATE										
				DROSCA		2014/03/05										
				ANGULAR TOL ± °		CHK'D BY		DATE		PRODUCT CUSTOMER DRAWING						
				4 PLACES ±		DATE										
				3 PLACES ±		APPR BY		DATE								
				2 PLACES ± 0.25		JCOMERCI		2014/04/24								
				1 PLACE ± 0.5		DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES	MATERIAL NUMBER		CUSTOMER			
				0 PLACES ±		D				172310			GENERAL MARKET			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						DOCUMENT NUMBER		DOC TYPE		DOC PART	SHEET NUMBER					
C2		REV				SD-172310-1000		PSD		000	3 OF 3					

C2

6

5

4

3

2

1

RELEASE STATUS

RELEASE DATE

19

18

17

16

15

14

13

12

11

10

9

8

7