

12		11		10		9		8		7		6		5		4		3		2		1	
ITEM NUMBER		CKT. SIZE	DIM."A"		DIM."B"		DIM."C"		TERMINAL PLATING		CLIP PLATING		STATUS		NOTE: 1) MATERIAL: HOUSING MATERIAL:30% GLASS-FILIED NYLON 4/6, U.L.94V-0, COLOR: BLACK. TERMINAL MATERIAL ALLOY 151. 2) FINISH: 2= .000100/(.00254) MIN. TIN OVER .000050/(.00127) MIN. NICKEL. 3= .000030/(.00076) MIN. SELECT GOLD IN CONTACT AREA. OVER .000050/(.00127) MIN NICKEL. 4= .000100/(00254) MIN SELECT SILVER IN CONTACT AREA .000100/(.00254) MIN. SELECT TIN ON SOLDER TAILS OVER .000050/(.00127) MIN NICKEL. 3) PRODUCT SPECIFICATION: PS-42815-001. 4) PACKAGING INFORMATION SEE MOLEX PACKING SPEC. PK-42820-910 5) PART MATES WITH MOLEX RECEPTACLE *42816-***2 WITH TPA. 6) PART IS DESIGNED IN METRIC. 7) AN "X" IN FRONT OF THE ITEM NUMBER INDICATES THE PART IS NOT TOOLED. 8) PARTS ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE 9) WHEN USING OVERALL TIN PLATED TERMINALS: FOR APPLICATIONS INVOLVING VIBRATION AND/OR TERMINAL CYCLING, MOLEX STRONGLY RECOMMENDS THE USE OF NYE LUBRICANT (NYOGEL 760G) ON THE MATING SURFACES OF THE TERMINAL. 10) PARTS CONFORMS TO CLASS 'B' REQUIRMENTS OF COSMETIC SPECIFICATIONS PS-45499-002 11) FOR TAPE AND REEL PACKAGING REFER TO PK-45986-004 12) BOARD CLIP HOLE MAY OR MAY NOT BE PLATED. REFER TO CHART FOR PLATED / UNPLATED CLIPS. 13) REFER AS-42815-001 FOR TIN PLATED TERMINALS RECOMMENDED LUBRICATION PROCEDURE. 14) FOR PN 42820**9* PLEASE REFER TO MOLEX PACAKAGING SPEC. 428204294-PK.								
H		2	.138/(3.50)		.823/(20.90)		.071/(1.80)		SELECT GOLD IN CONTACT AREA (SEE LEGEND)		NONE		ACTIVE										
42820-2313		2	.138/(3.50)		.823/(20.90)		N/A																
42820-2223		2	.201/(5.10)		.823/(20.90)		.102/(2.60)																
42820-2233		2	.201/(5.10)		.823/(20.90)		.134/(3.40)																
42820-2243		2	.327/(8.30)		.823/(20.90)		.259/(6.58)																
42820-3213		3	.138/(3.50)		1.217/(30.90)		.071/(1.80)																
42820-3228		3	.138/(3.50)		1.217/(30.90)		.102/(2.60)																
42820-3223		3	.201/(5.10)		1.217/(30.90)		.102/(2.60)		SELECT MATTE TIN ON SOLDER TAILS		NONE		ACTIVE										
42820-3233		3	.201/(5.10)		1.217/(30.90)		.134/(3.40)																
42820-3243		3	.327/(8.30)		1.217/(30.90)		.259/(6.58)																
42820-4213		4	.138/(3.50)		1.610/(40.90)		.071/(1.80)																
42820-4223		4	.201/(5.10)		1.610/(40.90)		.102/(2.60)																
42820-4233		4	.201/(5.10)		1.610/(40.90)		.134/(3.40)																
42820-4243		4	.327/(8.30)		1.610/(40.90)		.259/(6.58)																
42820-5213		5	.138/(3.50)		2.004/(50.90)		.071/(1.80)		SELECT SILVER IN CONTACT AREA (SEE LEGEND)		NONE		ACTIVE										
42820-5223		5	.201/(5.10)		2.004/(50.90)		.102/(2.60)																
42820-5233		5	.201/(5.10)		2.004/(50.90)		.134/(3.40)																
42820-5243		5	.327/(8.30)		2.004/(50.90)		.259/(6.58)																
42820-6213		6	.138/(3.50)		2.398/(60.90)		.071/(1.80)																
42820-6223		6	.201/(5.10)		2.398/(60.90)		.102/(2.60)																
42820-6233		6	.201/(5.10)		2.398/(60.90)		.134/(3.40)																
42820-6243		6	.327/(8.30)		2.398/(60.90)		.259/(6.58)		SELECT MATTE TIN ON SOLDER TAILS		NONE		ACTIVE										
42820-2214		2	.138/(3.50)		.823/(20.90)		.071/(1.80)																
42820-2224		2	.201/(5.10)		.823/(20.90)		.102/(2.60)																
42820-2234		2	.201/(5.10)		.823/(20.90)		.134/(3.40)																
42820-2244		2	.327/(8.30)		.823/(20.90)		.259/(6.58)																
42820-2314		2	.138/(3.50)		.823/(20.90)		N/A																
42820-3214		3	.138/(3.50)		1.217/(30.90)		.071/(1.80)																
42820-3224		3	.201/(5.10)		1.217/(30.90)		.102/(2.60)		SELECT SILVER IN CONTACT AREA (SEE LEGEND)		NONE		ACTIVE										
42820-3234		3	.201/(5.10)		1.217/(30.90)		.134/(3.40)																
42820-3244		3	.327/(8.30)		1.217/(30.90)		.259/(6.58)																
42820-3314		3	.138/(3.50)		1.217/(30.90)		N/A																
42820-4214		4	.138/(3.50)		1.610/(40.90)		.071/(1.80)																
42820-4224		4	.201/(5.10)		1.610/(40.90)		.102/(2.60)																
42820-4234		4	.201/(5.10)		1.610/(40.90)		.134/(3.40)																
42820-4244		4	.327/(8.30)		1.610/(40.90)		.259/(6.58)		SELECT MATTE TIN ON SOLDER TAILS		NONE		ACTIVE										
42820-5214		5	.138/(3.50)		2.004/(50.90)		.071/(1.80)																
42820-5224		5	.201/(5.10)		2.004/(50.90)		.102/(2.60)																
42820-5234		5	.201/(5.10)		2.004/(50.90)		.134/(3.40)																
42820-5244		5	.327/(8.30)		2.004/(50.90)		.259/(6.58)																
42820-5314		5	.138/(3.50)		2.004/(50.90)		N/A																
42820-6214		6	.138/(3.50)		2.398/(60.90)		.071/(1.80)																
42820-6224		6	.201/(5.10)		2.398/(60.90)		.102/(2.60)		SELECT SILVER IN CONTACT AREA (SEE LEGEND)		NONE		ACTIVE										
42820-6234		6	.201/(5.10)		2.398/(60.90)		.134/(3.40)																
42820-6244		6	.327/(8.30)		2.398/(60.90)		.259/(6.58)																
42820-2294		2	.138/(3.50)		0.823/(20.90)		.071/(1.80)																
42820-4294		4	.138/(3.50)		1.610/(40.90)		.071/(1.80)																
C		LEGEND : CIRCUIT SIZE (2-6) A-42820 - * * * PLATING 2 OR 9 = OVERALL BRIGHT TIN OVER NICKEL 3 OR 8 = SELECT GOLD IN CONTACT AREA SELECT MATTE TIN ON SOLDER TAILS OVER NICKEL 4 = SELECT SILVER IN CONTACT AREA SELECT MATTE TIN ON SOLDER TAILS OVER NICKEL MOUNTING OPTION 1 = FLANGES (SEE DWG SDA-42820-*1**) 2 = RETENTION CLIP 3 = NO RETENTION CLIP P.C. BOARD THICKNESS 1 = .062/(1.57) NOMINAL 2 = .093/(2.36) NOMINAL 3 = .125/(3.18) NOMINAL 4 = .250/(6.35) NOMINAL 9 = .062/(1.57) NOMINAL WITH 428204294-PK¹⁴⁾																					
B																							
A		42820-22** 42820-32** 42820-52** 42820-62**																					
DOCUMENT STATUS		P1	RELEASE DATE		2022/07/19		07:07:23																

MATING AREA
(SEE NOTE 9)

CIRCUIT #1

DIM B

DIM C

DIM A

DIM C

DIM A

DIM C

DIM A

DIM C

DIM A

DIM C

DIM A

DIM C

DIM A

DIM C

DIM A

DIM C

DIM A

DIM C

DIM A

DIM C

DIM A

DIM C

DIM A

DIM C

DIM A

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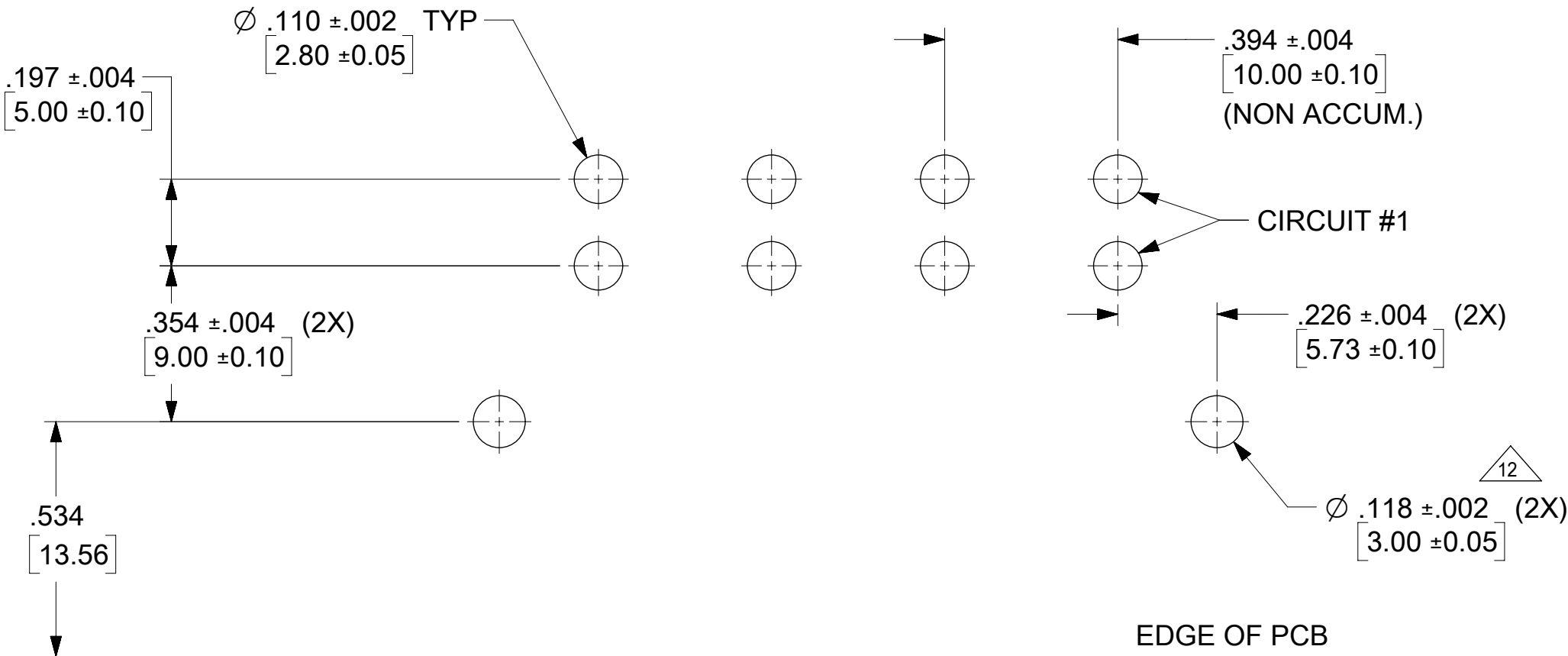
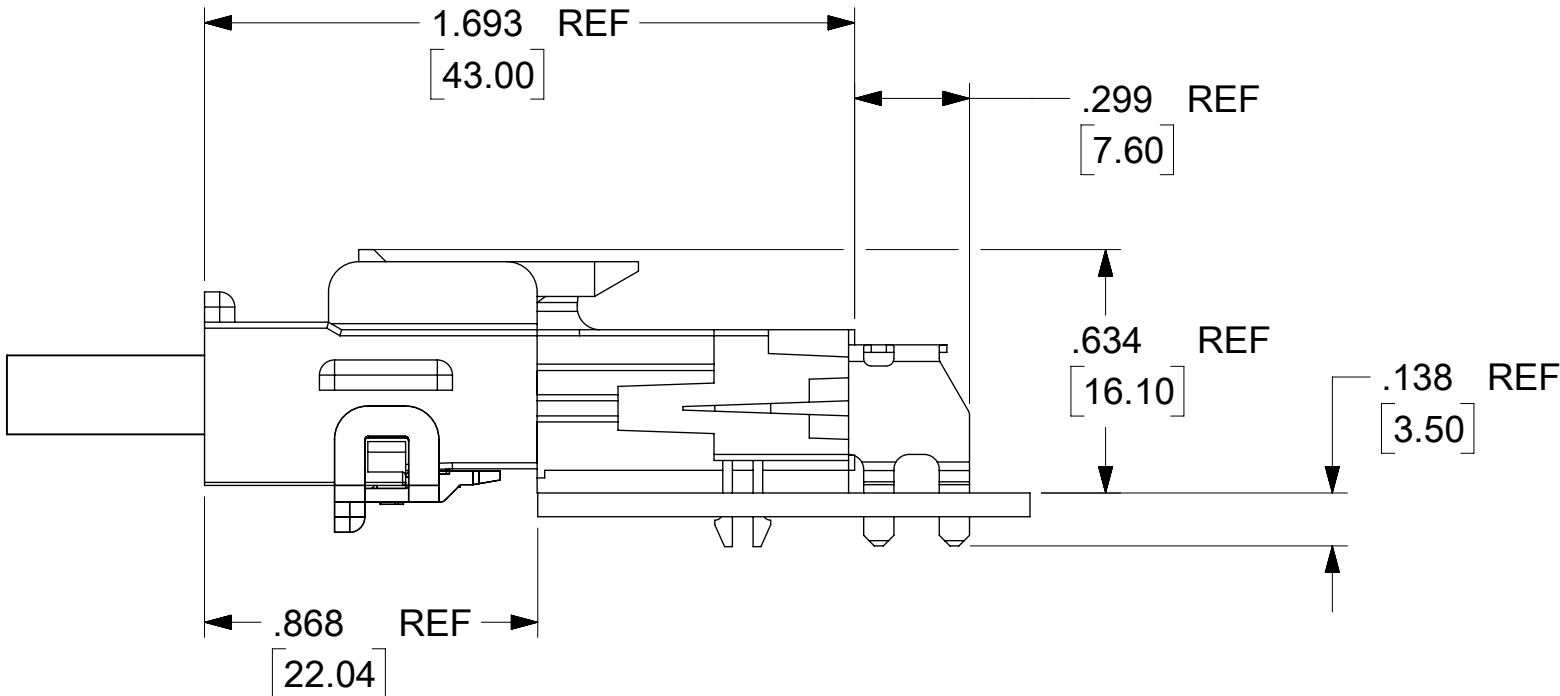
</

FORMAN: master dy prod C																																	
12			11			10			9			8			7			6			5			4			3			2			1
REVISION: N																																	
DATE: 20160118																																	

12		11		10		9	8	7	6	5	4	3	2	1
ITEM NUMBER	CKT. SIZE	DIM."A"	DIM."B"	DIM."C"	TERMINAL PLATING	CLIP PLATING	STATUS							
42820-2212	2	.138/(3.50)	.823/(20.90)	.071/(1.80)	OVERALL BRIGHT TIN	NONE	PLANNED FOR OBSOLESCENCE	SEE NOTE 11						
42820-2219	2	.138/(3.50)	.823/(20.90)	.071/(1.80)										
42820-2222	2	.201/(5.10)	.823/(20.90)	.102/(2.60)										
42820-2232	2	.201/(5.10)	.823/(20.90)	.134/(3.40)										
42820-2239	2	.201/(5.10)	.823/(20.90)	.134/(3.40)										
42820-2242	2	.327/(8.30)	.823/(20.90)	.259/(6.58)										
42820-3212	3	.138/(3.50)	1.217/(30.90)	.071/(1.80)										
42820-3222	3	.201/(5.10)	1.217/(30.90)	.102/(2.60)										
42820-3229	3	.201/(5.10)	1.217/(30.90)	.102/(2.60)										
42820-3232	3	.201/(5.10)	1.217/(30.90)	.134/(3.40)										
42820-3242	3	.327/(8.30)	1.217/(30.90)	.259/(6.58)										
42820-4212	4	.138/(3.50)	1.610/(40.90)	.071/(1.80)										
42820-4312	4	.138/(3.50)	1.610/(40.90)	N/A										
42820-4222	4	.201/(5.10)	1.610/(40.90)	.102/(2.60)										
42820-4232	4	.201/(5.10)	1.610/(40.90)	.134/(3.40)										
42820-4242	4	.327/(8.30)	1.610/(40.90)	.259/(6.58)										
42820-5212	5	.138/(3.50)	2.004/(50.90)	.071/(1.80)										
42820-5222	5	.201/(5.10)	2.004/(50.90)	.102/(2.60)										
42820-5232	5	.201/(5.10)	2.004/(50.90)	.134/(3.40)										
42820-5242	5	.327/(8.30)	2.004/(50.90)	.259/(6.58)										
42820-6212	6	.138/(3.50)	2.398/(60.90)	.071/(1.80)										
42820-6222	6	.201/(5.10)	2.398/(60.90)	.102/(2.60)										
42820-6229	6	.201/(5.10)	2.398/(60.90)	.102/(2.60)										
42820-6232	6	.201/(5.10)	2.398/(60.90)	.134/(3.40)										
42820-6242	6	.327/(8.30)	2.398/(60.90)	.259/(6.58)										
42820-2332	2	.201/(5.10)	.823/(20.90)	N/A										
42820-2342	2	.327/(8.30)	.823/(20.90)	N/A										

Technical drawing of a component with dimensions:

- 1.693 REF [43.00]
- .299 REF [7.60]
- .634 REF [16.10]
- .138 REF [3.50]
- .868 REF [22.04]



RECOMMENDED P.C. BOARD PLATED -THRU HOLE LAYOUT
(4 CKT. SHOWN FOR REF.)

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:					molex MINI-FIT SR. RIGHT ANGLE HEADER ASSEMBLY						
mm		3:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)															
ANGULAR TOL ± 0.5 °															
4 PLACES		±							EC NO: 714707					PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER SDA-42820-0002 DOC TYPE PSD DOC PART 001 REVISION J2	
3 PLACES		±		DRWN: KEVINS31 2022/07/18											
2 PLACES		± 0.25		CHK'D: KEVINS31 2022/07/19											
1 PLACE		± 0.4		APPR: ISHWARG 2022/07/19											
0 PLACES		±		INITIAL REVISION:					THIRD ANGLE PROJECTION DRAWING C-SIZE SERIES 42820						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRWN: RFC_PLMIMP 2018/11/02											
				APPR: JCOMERCI 2001/07/18					MATERIAL NUMBER		CUSTOMER			SHEET NUMBER	
									SEE CHART		GENERAL MARKET			2 OF 2	
DOCUMENT STATUS		P1	RELEASE DATE		2022/07/19		07:07:23								