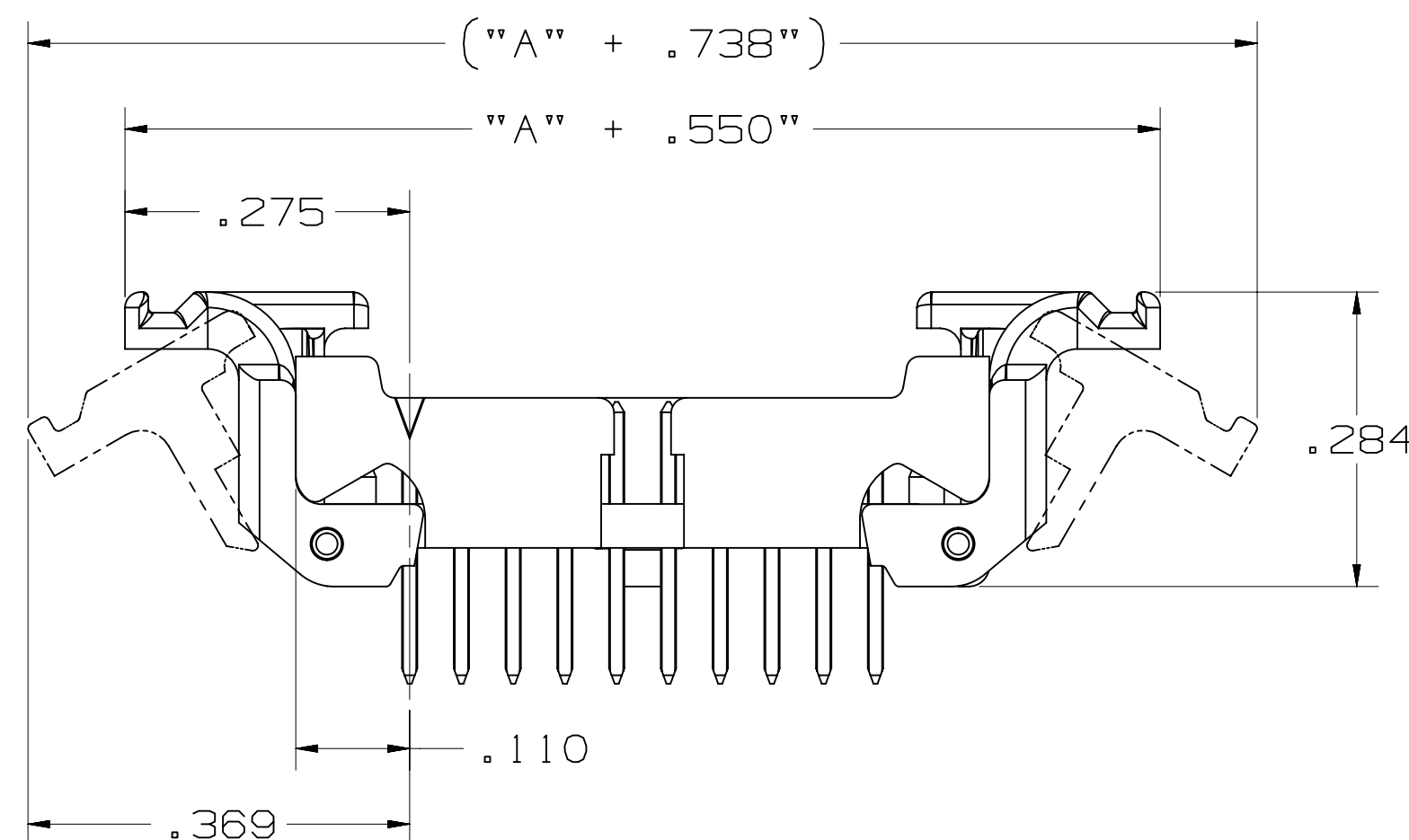
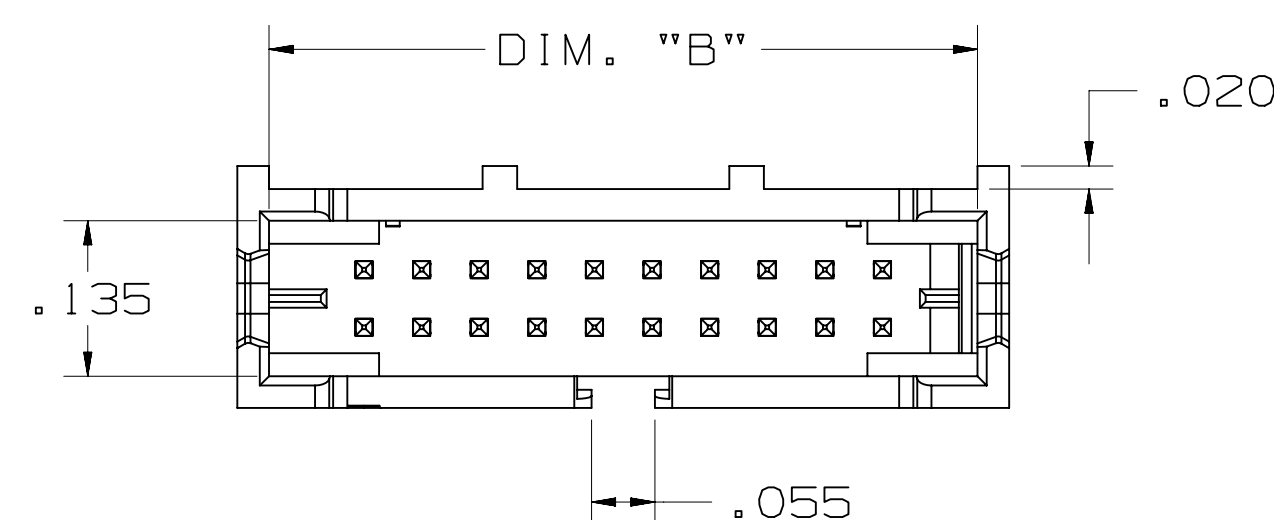
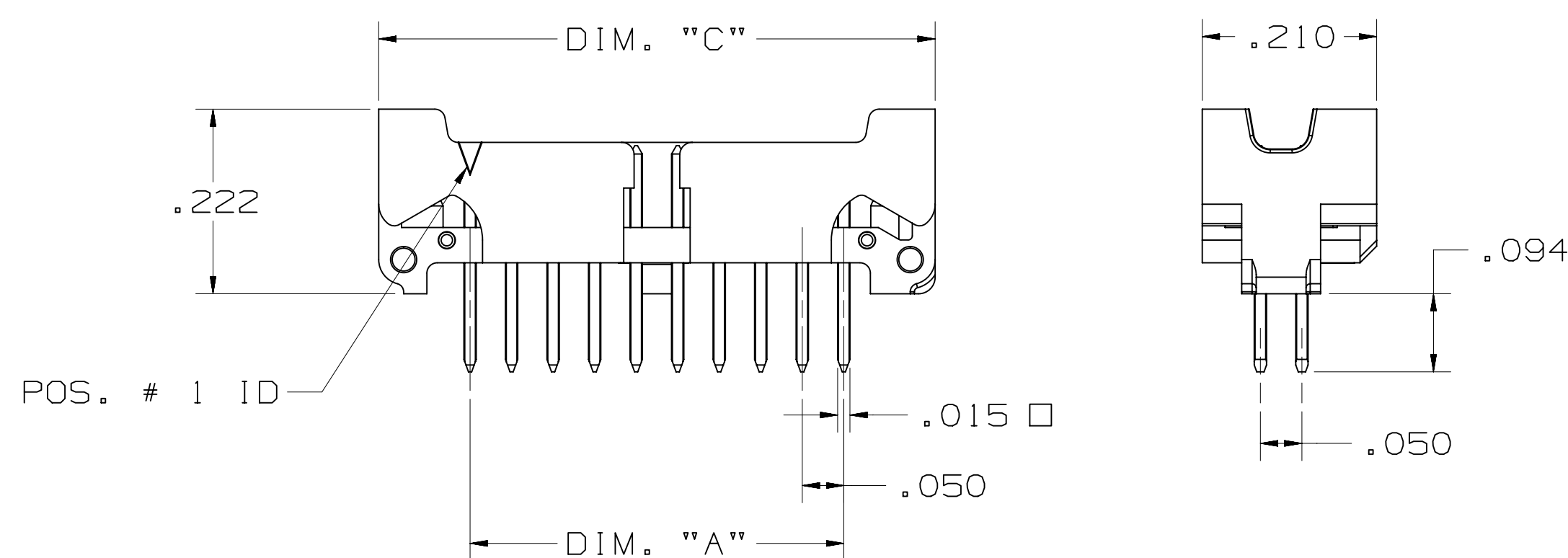


3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES

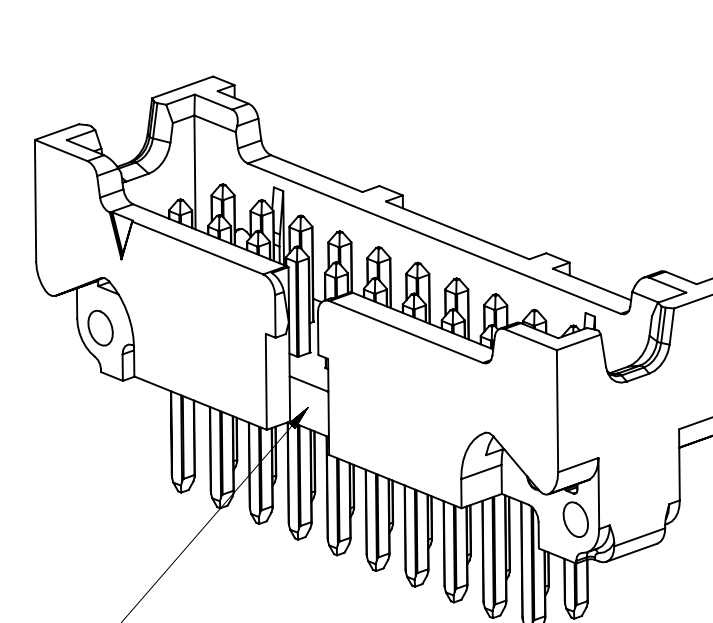


THRU BOARD, VERTICAL WITH
LOW PROFILE LATCH/EJECT OPTION

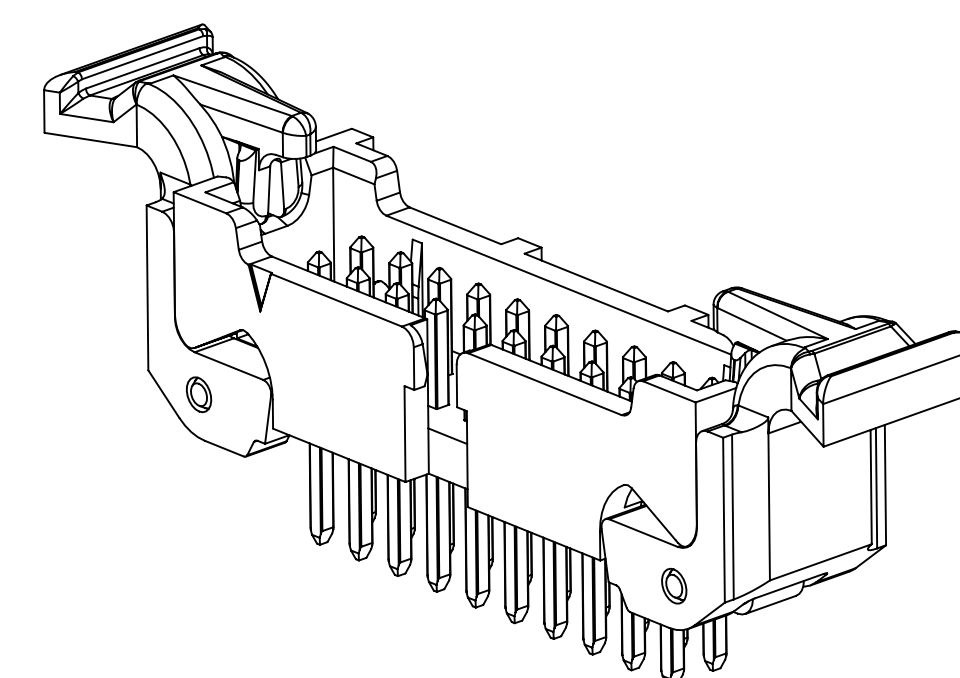
No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.215	.270
6	.100	.265	.320
8	.150	.315	.370
10	.200	.365	.420
12	.250	.415	.470
14	.300	.465	.520
16	.350	.515	.570
20	.450	.615	.670
30	.700	.865	.920



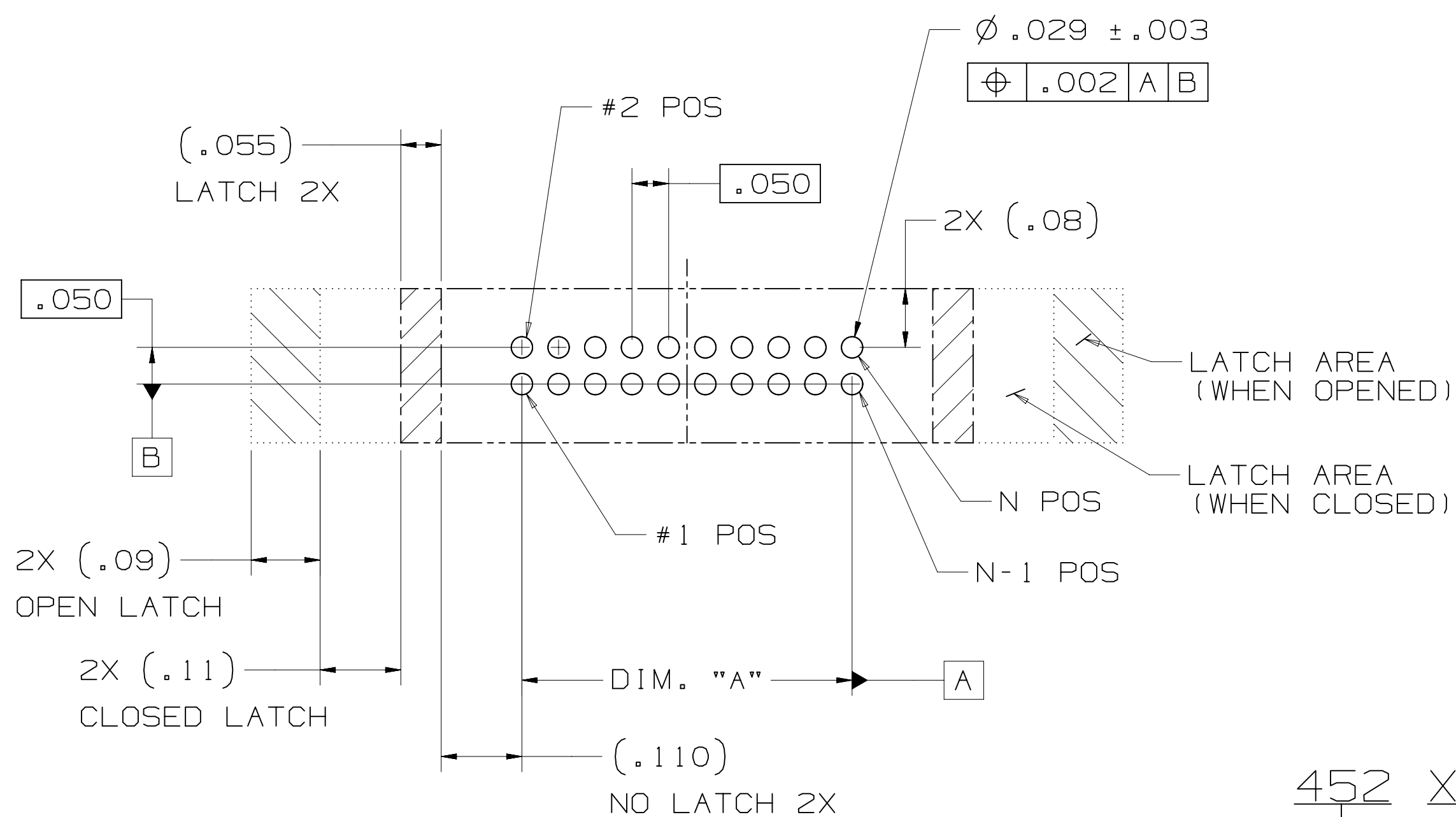
THRU BOARD, VERTICAL



- POLARIZATION AND
FRICTION LATCHING
POSITIONS 8-30 ONLY



WITH LATCH/EJECT



RECOMMENDED BOARD LAYOUT

SERIES 452 XX - X X 0 2 XX
 POSITION COUNT 04 - 30
 SEE TABLE 1

PLATING
 00 = AU FLASH
 30 = 30μ" GOLD

CONTACT TAIL
 2 = STANDARD (.094")

PART CONFIG. AND PACKAGING _____

6 = VERTICAL THRU HOLE, TRAY PACKAGING

5 = RIGHT ANGLE THRU HOLE, TRAY PACKAGING

2 = VERTICAL SMT, TAPE AND REEL WITH VAC CAP

- LATCH/EJECT
 - 0 = NO LATCHES
 - 2 = WITH LOW PROFILE LATCHES

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INTERCONNECT SOLUTIONS
<http://www.3mconnectors.com>

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US
UL FILE NO: E68080

78-5100-2436-3		A 48 / 97		MAR 23, 2013		JNC	SAN
78-5100-2366-9				PRODUCTION RELEASE			
DESIGN REFERENCE		NEXT ASSEMBLY		REV.	ECO	ISSUE DATE AND DESCRIPTION	DRFT CHKD
ADDRESS CODES		ARM SAN		DATE NOV 29, 2012	MFG PRC SAN	DATE NOV 29, 2012	
DIVISION		DIVISION CODE		DATE NOV 29, 2012		DATE NOV 29, 2012	
Interconnect Solutions		ISD		© 3M COPYRIGHT 2014			
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		3M Center St., Paul, MN 55144		This document and the information it contains are 3M proprietary and may not be reproduced or further distributed without 3M permission, or used or displayed other than for 3M authorized purposes. All rights reserved.	
		INCHES .00 ±.01 .00 ±.02 .000 ±.010 0.000 ±.0050		TITLE BOARDMOUNT HEADER, .05 X .05 PITCH, L/E, 452 SERIES			
THIRD ANGLE PROJECTION		MILLIMETERS 0 ± 0 .00 ± 0.00 ± 0.00 ±		CAGE NUMBER D		DRAWING NO. 78-5100-2437-1	
INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS CALL MARKED ONLY		REVISION F			
✓ UNLESS OTHERWISE SPECIFIED		ANGLE		DET 1 SCS		FLYES NO SHIT 1 OF	

NOTES	
1.	MATERIAL: BODY: LCP, UL94V-0 LATCH: PPA, UL94V-0 CONTACTS: COPPER ALLOY.
2.	PLATING: 50-150 μ " NICKEL UNDERPLATE 30 = 30 μ " GOLD MIN. ON WIPING AREA WITH 200 μ " MATTE TIN ON SOLDER TAIL 00 = GOLD FLASH ON WIPING AREA WITH 100-140 μ " MATTE TIN ON SOLDER TAIL.
3.	MATING COMPATIBILITY: 3M 1.27mm (0.050")1, 451 SERIES RIBBON CABLE SOCKET. TECH SHEET 2436
4.	REGULATORY INFORMATION: ROHS COMPLIANT. SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "ROHS COMPLIANCE" SECTION OF WWW.3MCONNECTORS.COM FOR COMPLIANCE INFORMATION (RIA E1 & C1 APPLY)
5.	IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
6.	REFERENCE PRODUCT SPEC: 3M DOC ID# 78-5102-0091-4
7.	OTHER PIN COUNTS AVAILABLE UPON REQUEST. CONTACT 3M.
8.	UNLESS OTHERWISE NOTED, REFERENCES TO INDUSTRY SPECIFICATIONS ARE INTENDED TO INDICATE SUBSTANTIAL COMPLIANCE TO THE MATERIAL ELEMENTS OF THE SPECIFICATION. SUCH REFERENCES SHOULD NOT BE CONSTRUED AS A GUARANTEE OF COMPLIANCE TO ALL REQUIREMENTS IN A GIVEN SPECIFICATION.
9.	PACKAGING: VERTICAL THRU: TRAY RIGHT ANGLE THRU: TRAY VERTICAL SMT: TAPE AND REEL

[illegible]

3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES

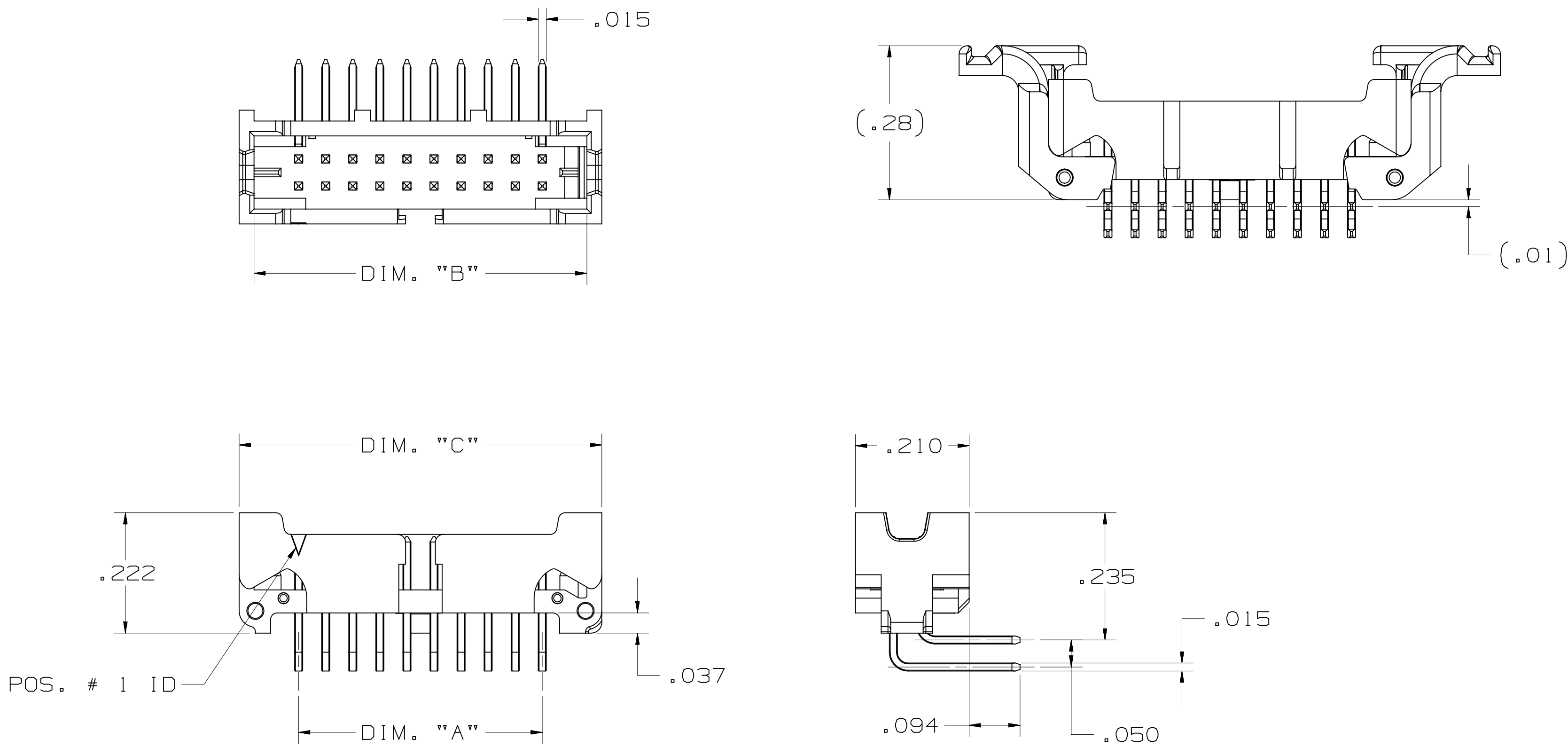
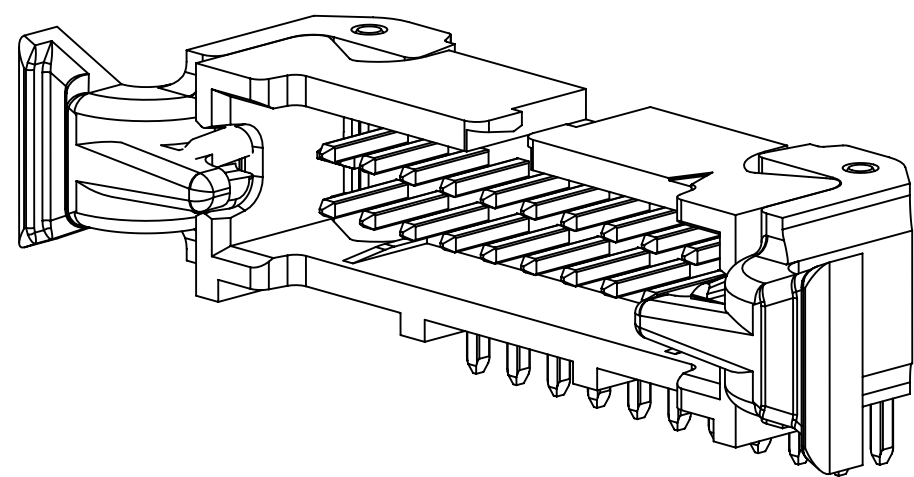
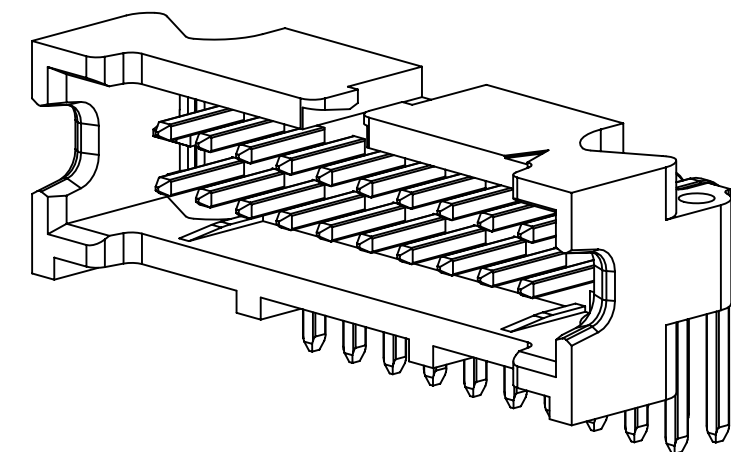


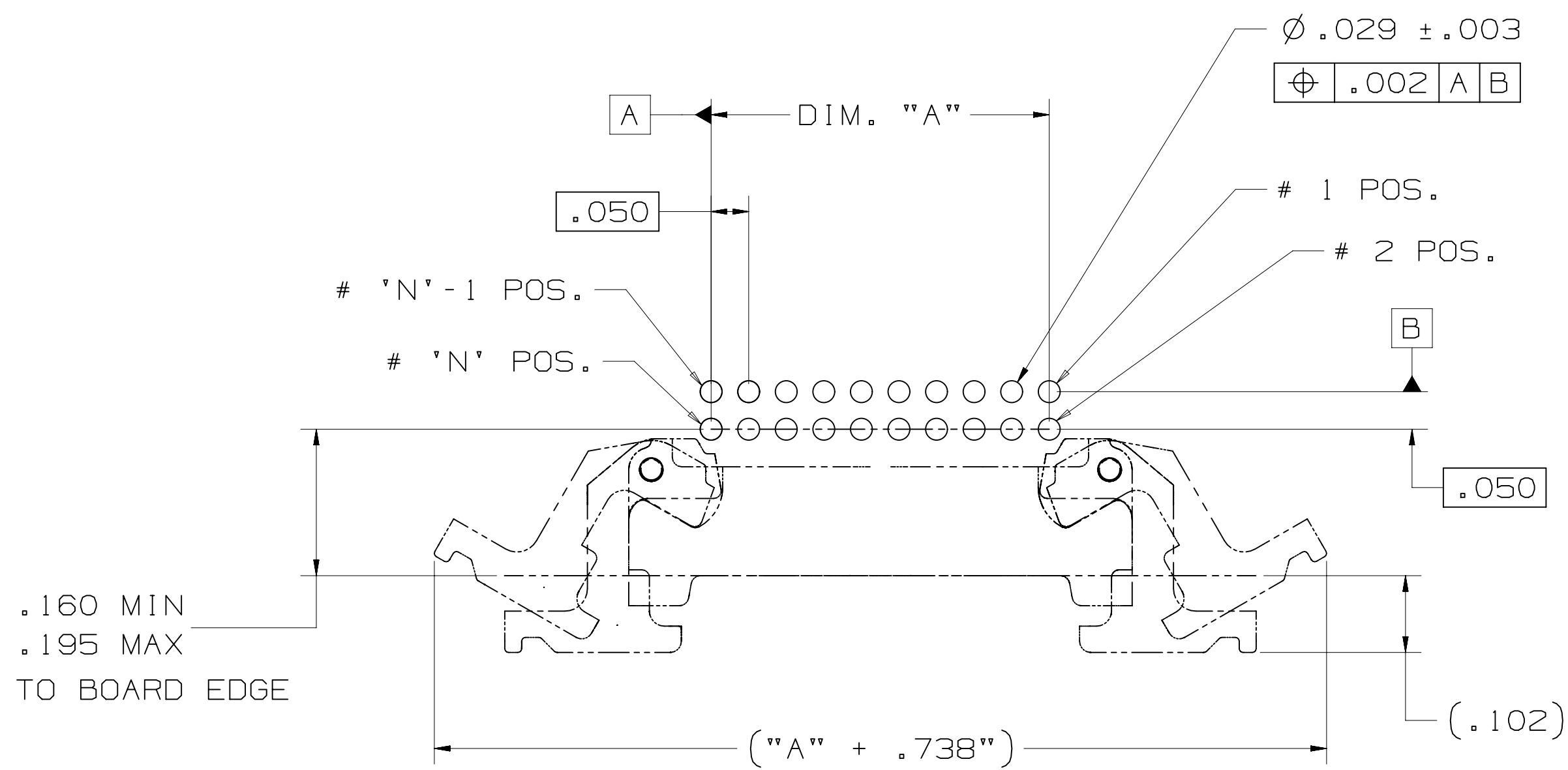
TABLE 1: RIGHT ANGLE THRU

No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.215	.270
6	.100	.265	.320
8	.150	.315	.370
10	.200	.365	.420
12	.250	.415	.470
14	.300	.465	.520
16	.350	.515	.570
20	.450	.615	.670
30	.700	.865	.920

THRU BOARD, RIGHT ANGLE



WITH LATCH/EJECT



RECOMMENDED BOARD LAYOUT

78-5100-2436-3 78-5100-2396-9		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD	
DESIGN REFERENCE		NEXT ASSEMBLY		DRFT	ARM	DATE	NOV 29, 2012	PRC	DATE	NOV 29, 2012
XREF CODES		XREF CODES		CHKD	SAN	DATE	NOV 29, 2012	SAN	DATE	NOV 29, 2012
DIVISION		DIVISION CODE		© 3M COPYR[IGHT] 2014						
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DO NOT SCALE DRAWING		SCALE 6 1		TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144				
THIRD ANGLE PROJECTION		INCHES .0 .1 .00 .02 .000 .010 .0000 .0050		TITLE BOARDMOUNT HEADER, .05 X .05 PITCH, L/E, 452 SERIES						
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS 0 .0 .00 .000		CAGE NUMBER		SIZE		DRAWING NO.		REV.
MAX SURFACE ROUGHNESS		SURFACES		D		78-5100-2437-1		F		
MARKED ONLY		ANGLES		MODEL		DET		LISTS		YES NO SHT 2 OF 4

3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES

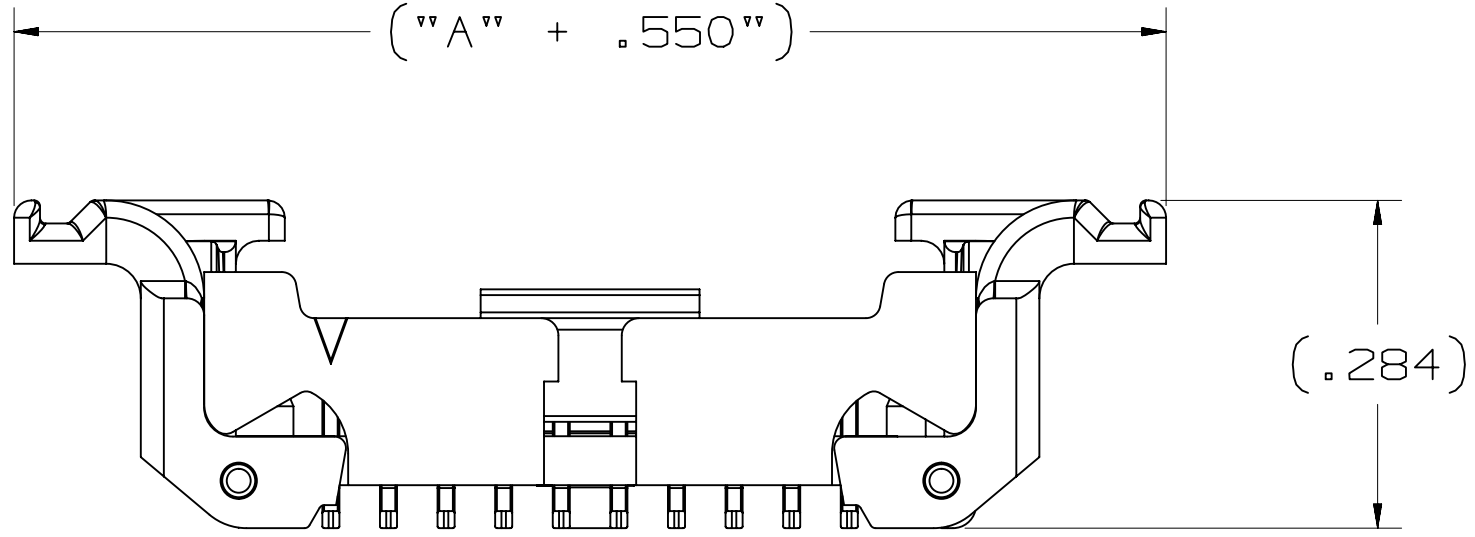
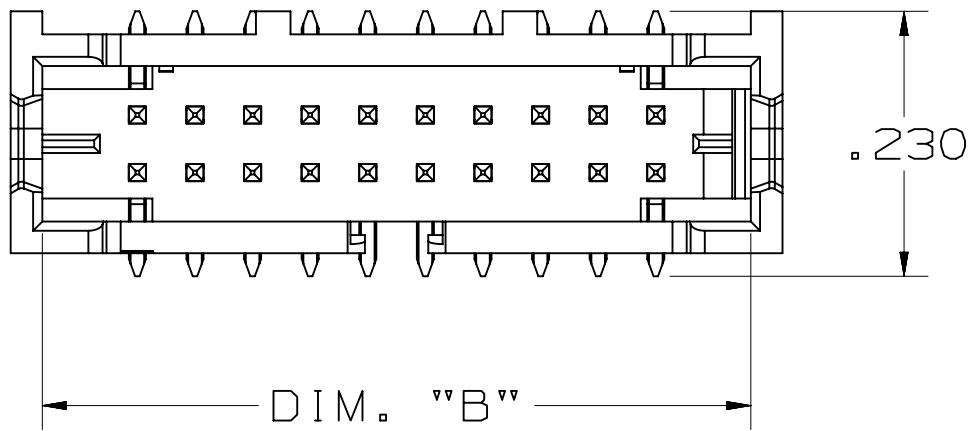
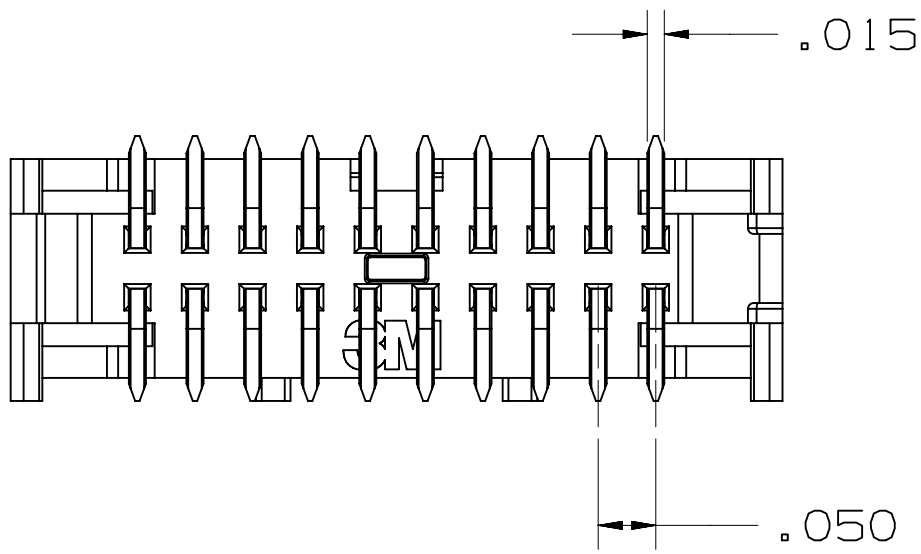
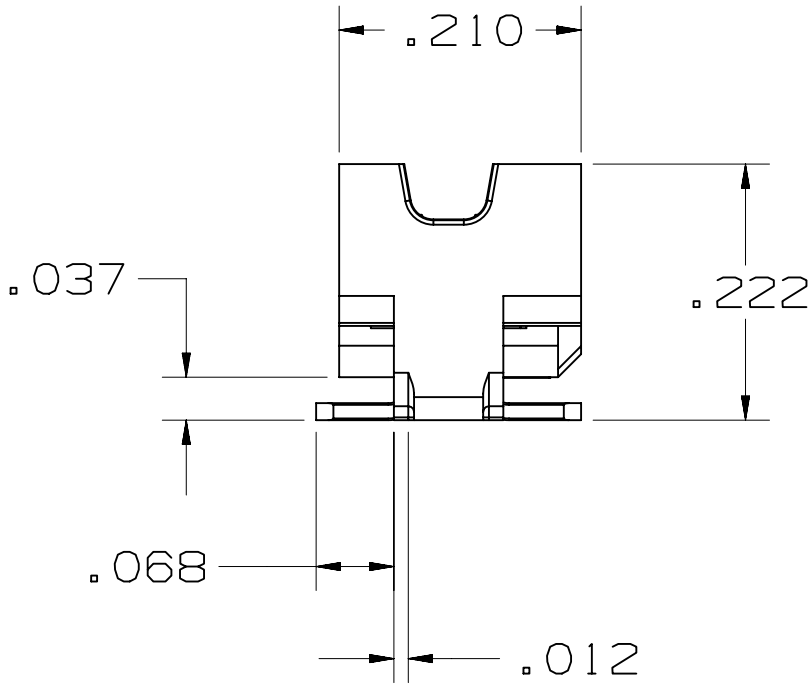
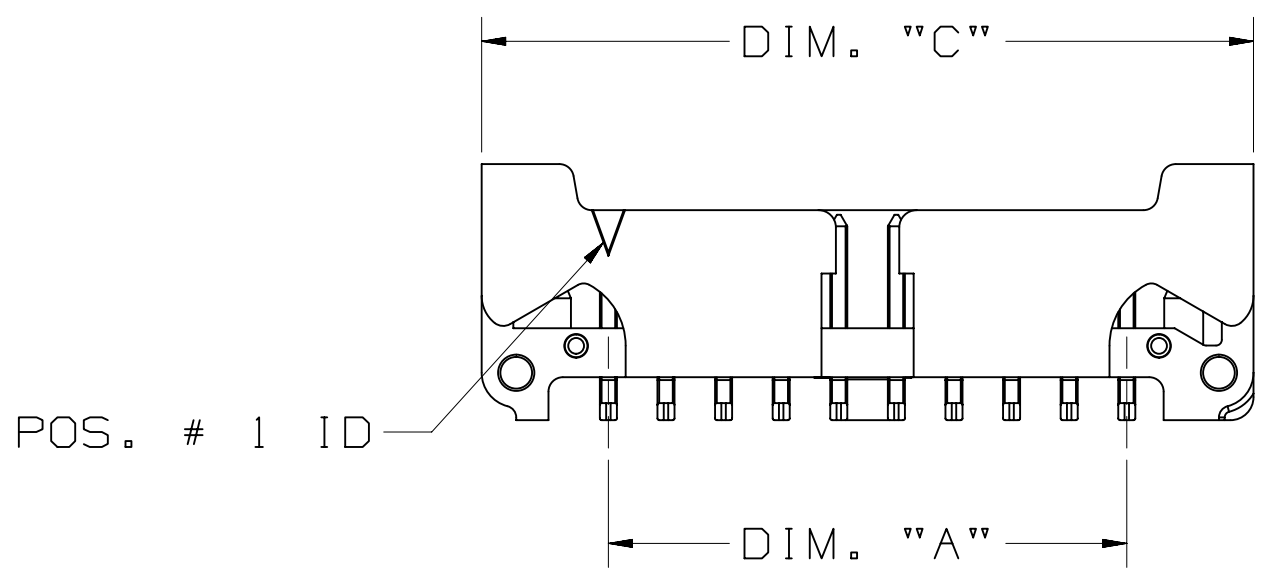
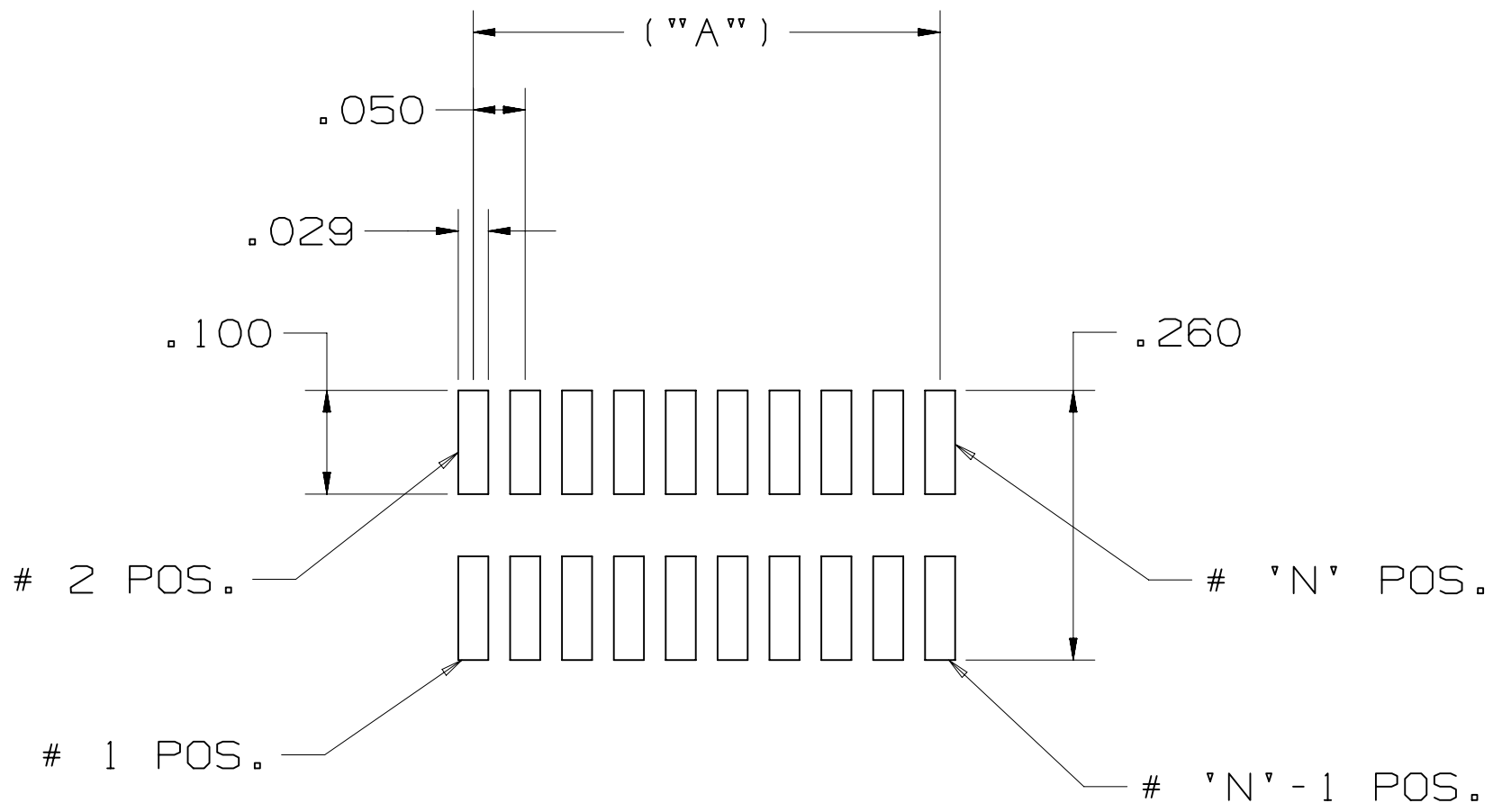


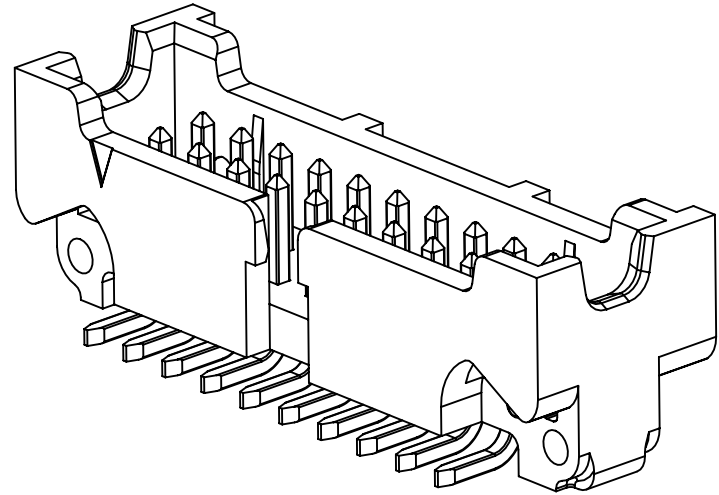
TABLE 1: VERTICAL SMT			
No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.215	.270
6	.100	.265	.320
8	.150	.315	.370
10	.200	.365	.420
12	.250	.415	.470
14	.300	.465	.520
16	.350	.515	.570
20	.450	.615	.670
30	.700	.865	.920



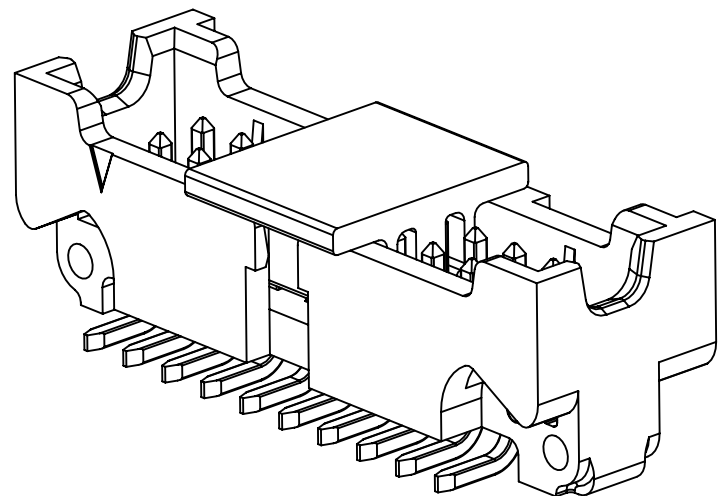
SURFACE MOUNT, VERTICAL



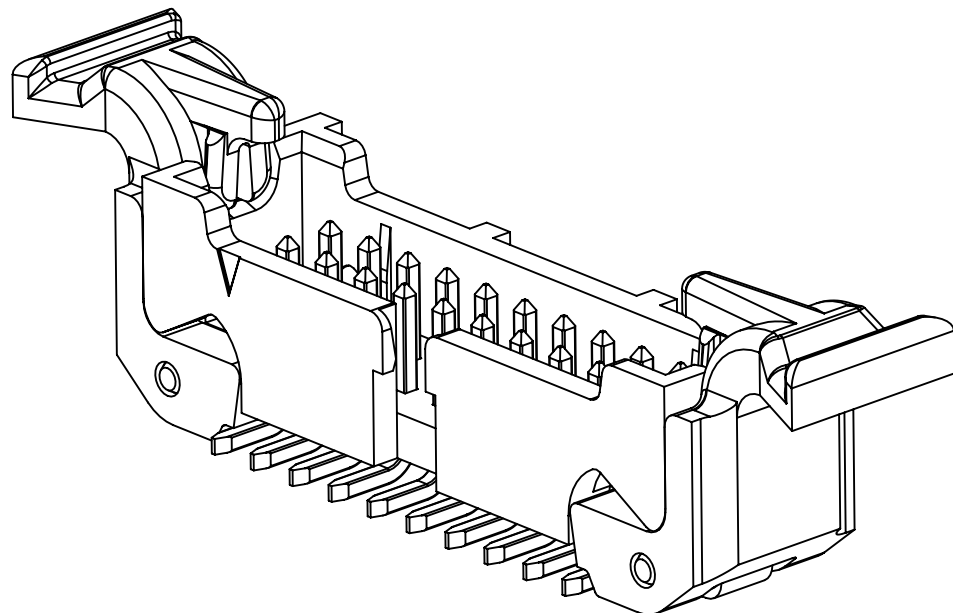
RECOMMENDED BOARD LAYOUT



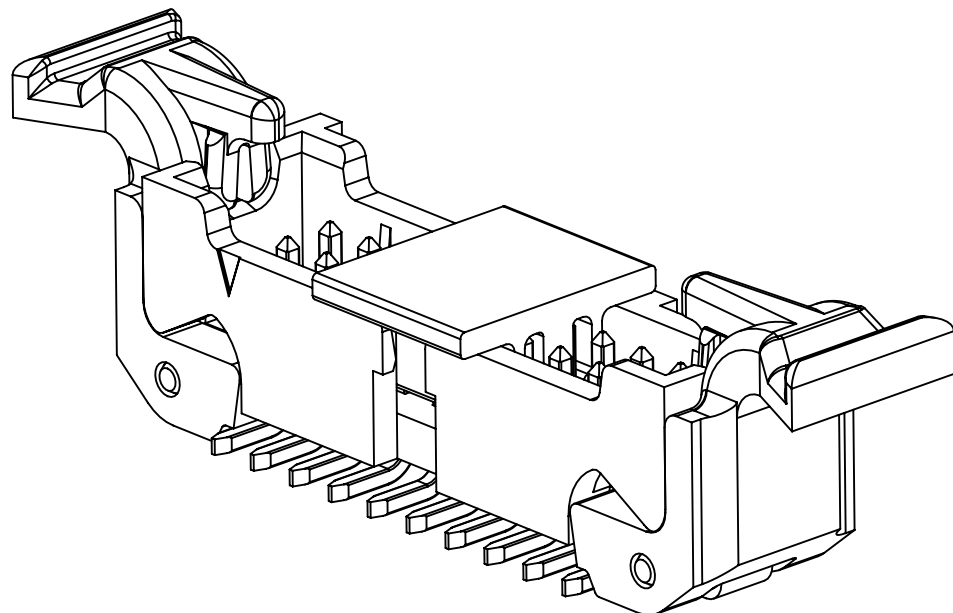
SHROUDED SMT HEADER



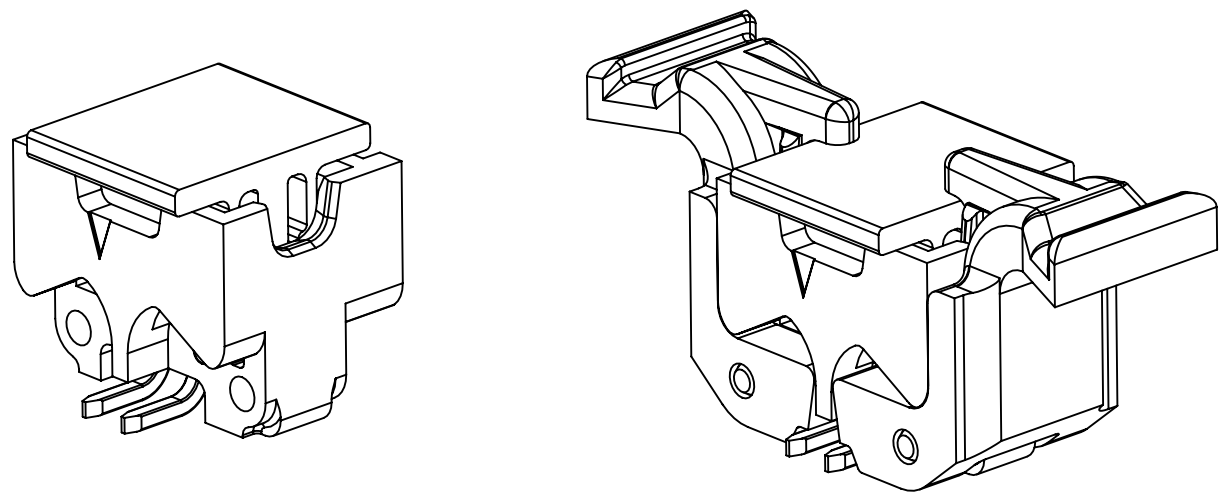
WITH VACUUM CAP



WITH LATCH/EJECT



WITH LATCH/EJECT
AND VACUUM CAP
VACUUM CAP IS FULLY SEATED
ON POSITIONS 8 THRU 30



VACUUM CAP SEATED ON TOP
EDGES OF END WALLS ON
POSITIONS 4 AND 6

78-5100-2436-3
78-5100-2396-9

DESIGN REFERENCE

NEXT ASSEMBLY

DO NOT SCALE DRAWING

SCALE 6 1

TOLERANCES EXCEPT AS NOTED

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS

INCHES .0000 ± .0050

MILLIMETERS 0 ± .0000 ± .0050

ANGLES

REVISIONS

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
F	56988	SEP 24, 2014 REVISE PERFORMANCE CHART	JNC	SN
E	54514	JUN 19, 2014 ADD UL LOGO, ADD 56MM T&R	SJS	SAN
D	51884	JAN 08, 2014 ADD DESIGN REF, UPDATE TITLE,	SJS	SAN
C	50290	OCT 08, 2013 REVISE NOTE 1, 9 & OPERATING TEMP.	JNC	SN
B	48635	JUL 12, 2013 MATCH TEXT FONTS & ADD NOTE 9	JNC	SN
A	46797	MAR 25, 2013 PRODUCTION RELEASE	JNC	SAN

3M

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TITLE

BOARDMOUNT HEADER, .05 X .05 PITCH, L/E, 452 SERIES

CAGE NUMBER

SIZE

DRAWING NO.

REV.

MODEL

DET

LISTS

YES

NO

SHT 3 OF 4

C

B



78-5100-2437-1
DRAWING NUMBER



A