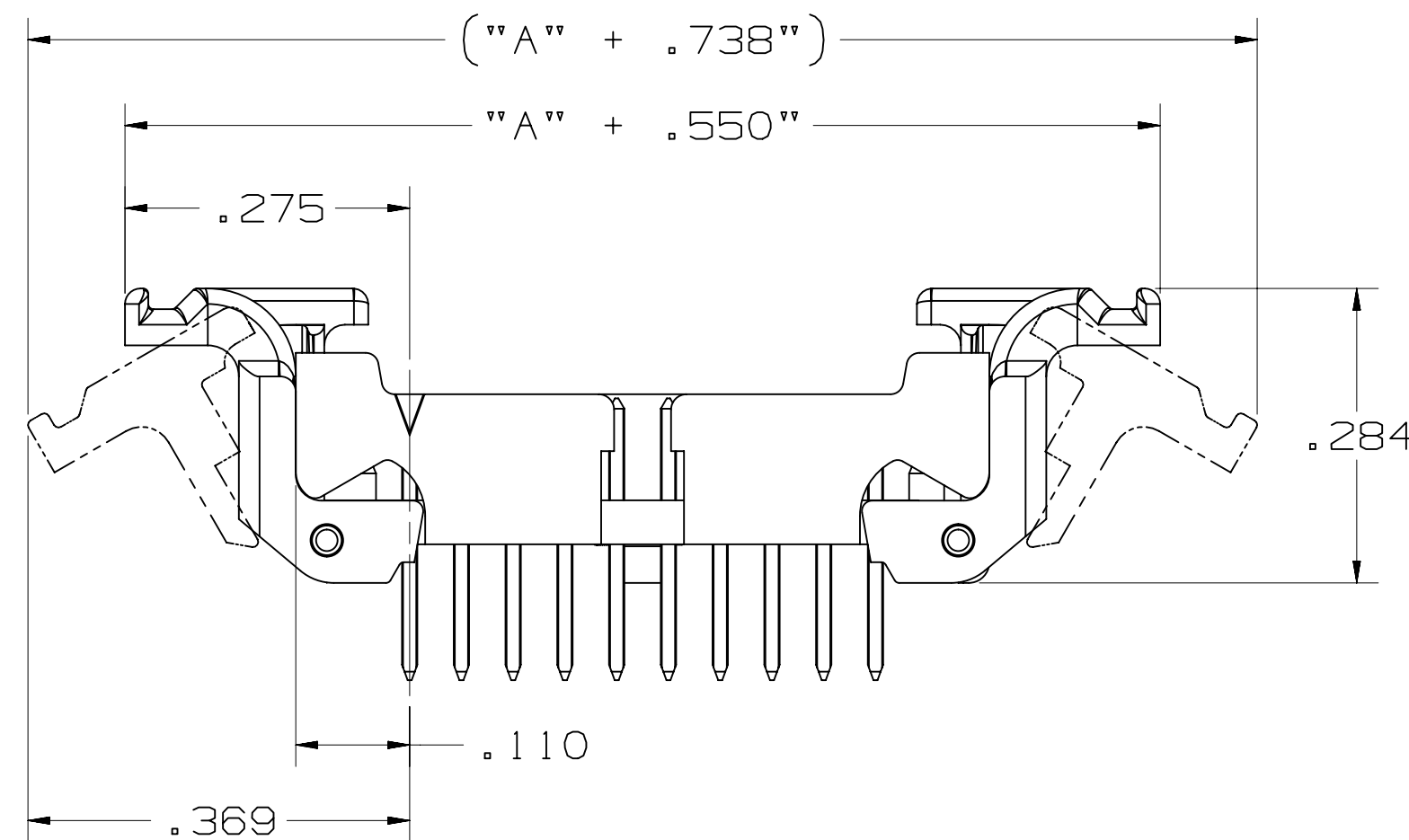
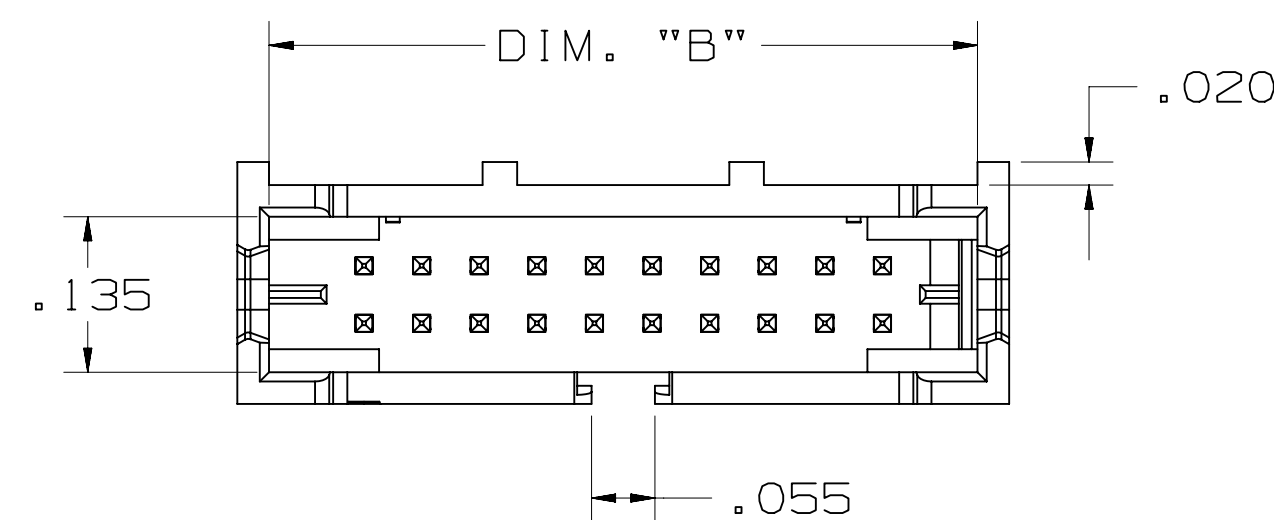
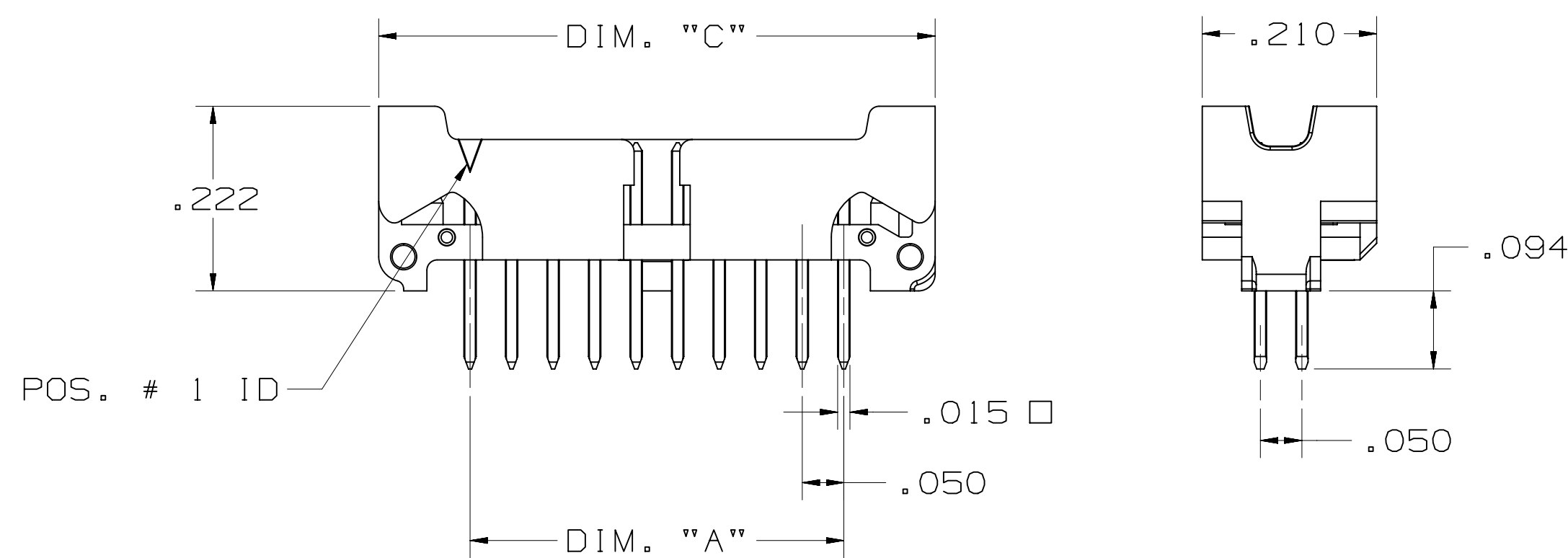


3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES

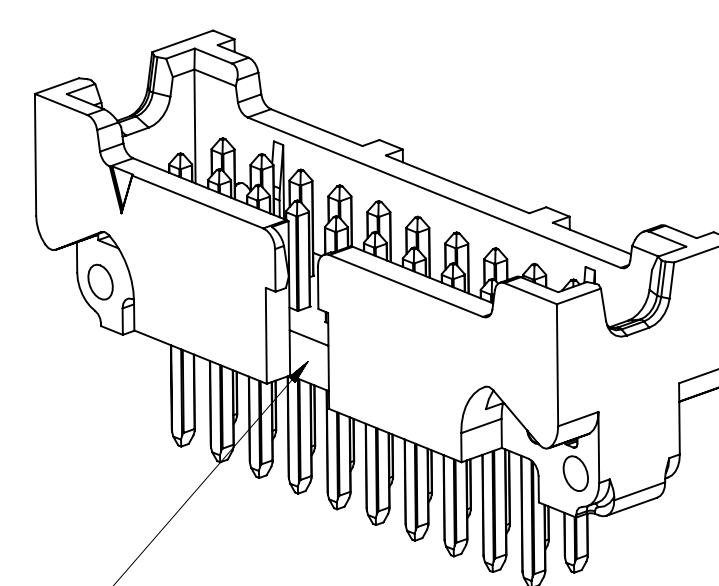


THRU BOARD, VERTICAL WITH
LOW PROFILE LATCH/EJECT OPTION

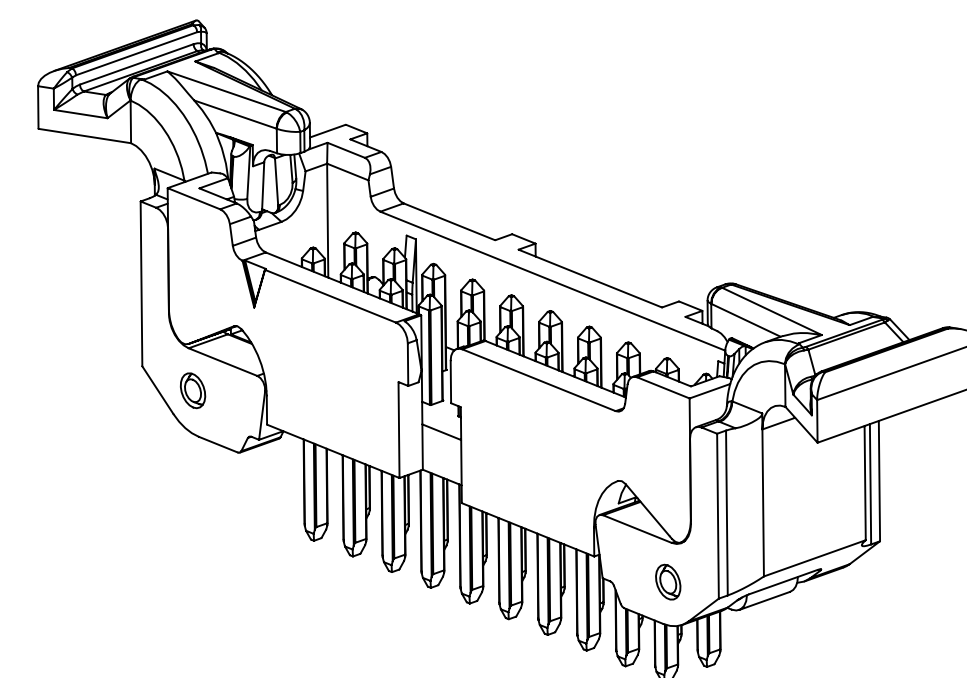
No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.215	.270
6	.100	.265	.320
8	.150	.315	.370
10	.200	.365	.420
12	.250	.415	.470
14	.300	.465	.520
16	.350	.515	.570
20	.450	.615	.670
30	.700	.865	.920



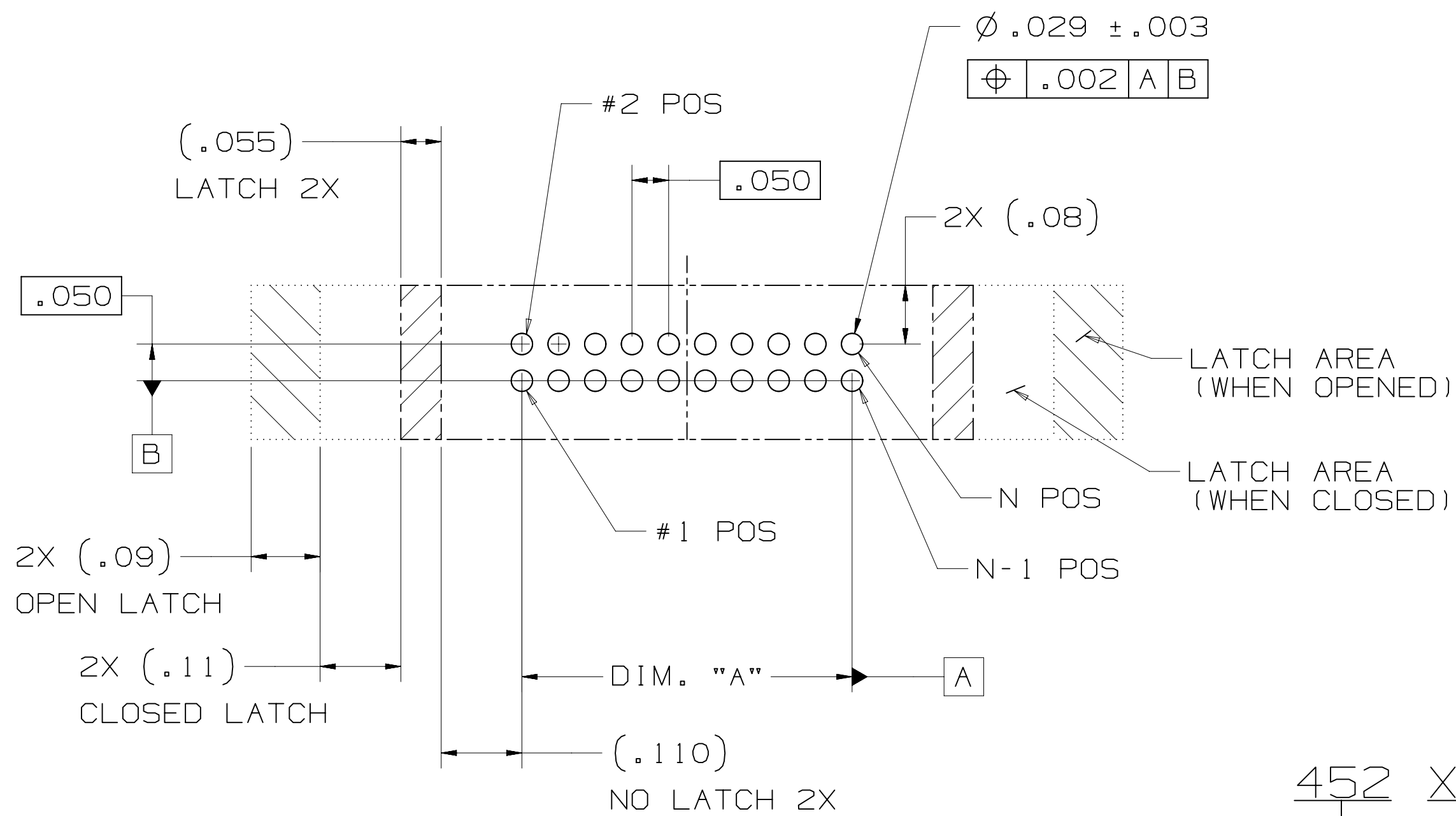
THRU BOARD, VERTICAL



- 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

3M ELECTRONIC MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3mconnectors.com>

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UL[®]
US
UL FILE NO: E68080

78-5100-2436-3		A 46797		MAR 25, 2013		JNC		SIN	
78-5100-2396-9				PRODUCTION RELEASE					
DESIGN REFERENCE		NEXT ASSEMBLY		REV ECO		ISSUE DATE AND DESCRIPTION		DRFT CHKD	
ACCESS CODES				DRFT ARM		DATE NOV 29, 2012		MFG PRC	
				DATE NOV 29, 2012		DATE NOV 29, 2012		DATE NOV 29, 2012	
DIVISION		DIVISION CODE		3M		© 3M COPYRIGHT 2014			
Interconnect Solutions		ISD		3M Center St. Paul, MN 55144		This document and the information it contains are 3M property. You may not reproduce or further distribute without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.			
DO NOT SCALE		TOLERANCES EXCEPT AS NOTED		TITLE		BOARDMOUNT HEADER, .05 X .05 PITCH, L/E, 452 SERIES			
DRAWING 1		INCHES +0 +1 .00 +02 .000 +010 +0000 +0050		MILLIMETERS 0 +1 .00 +00 +000 +00		CAGE NUMBER		SIZE DRAWING NO.	
THIRD ANGLE PROJECTION						D		78-5100-2437-1	
INTERPRET PER ASME Y14.5 2009						MODEL		REV.	
MAX SURFACE ROUGHNESS 0.4						DET.		YES YES NO	
SURFACES ✓ □ MARKED ONLY						SHT 1 OF 4			

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"), 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

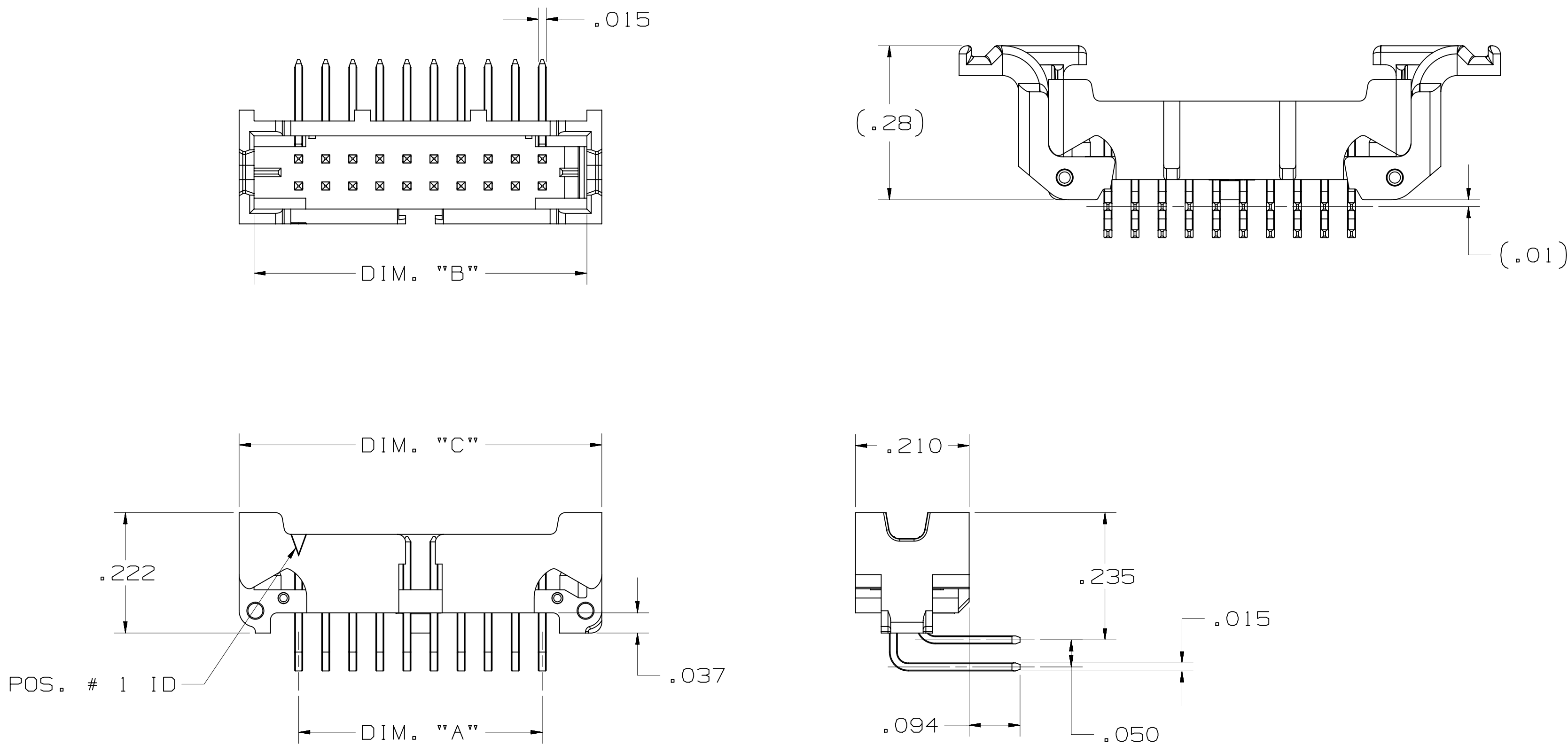
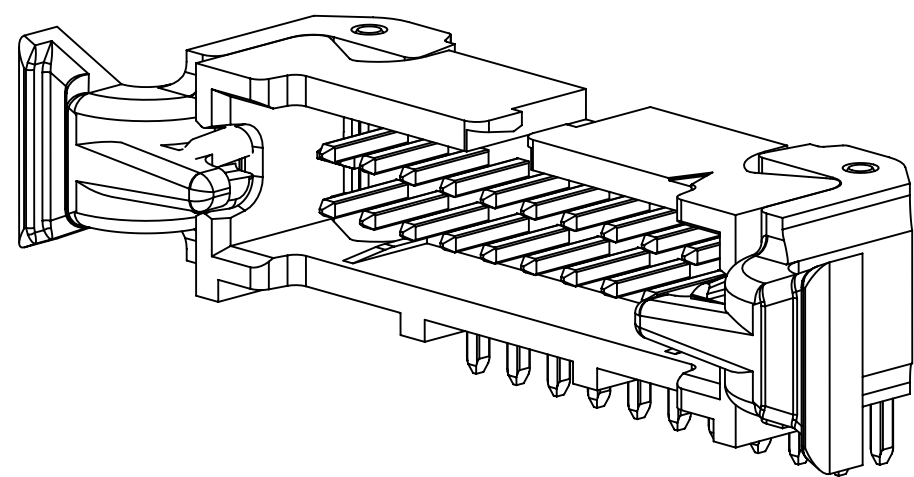
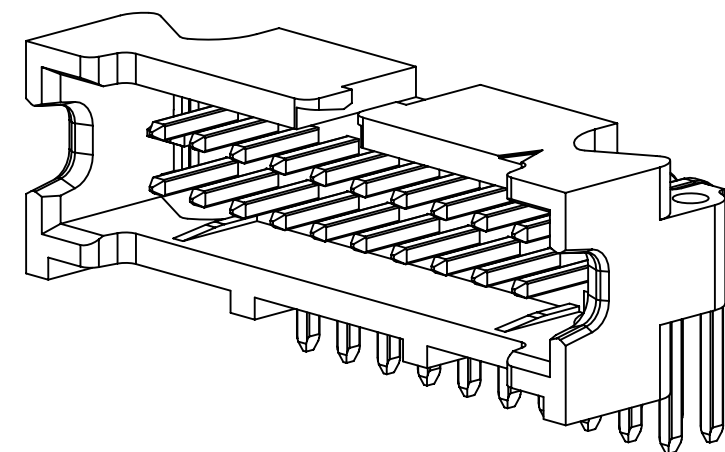


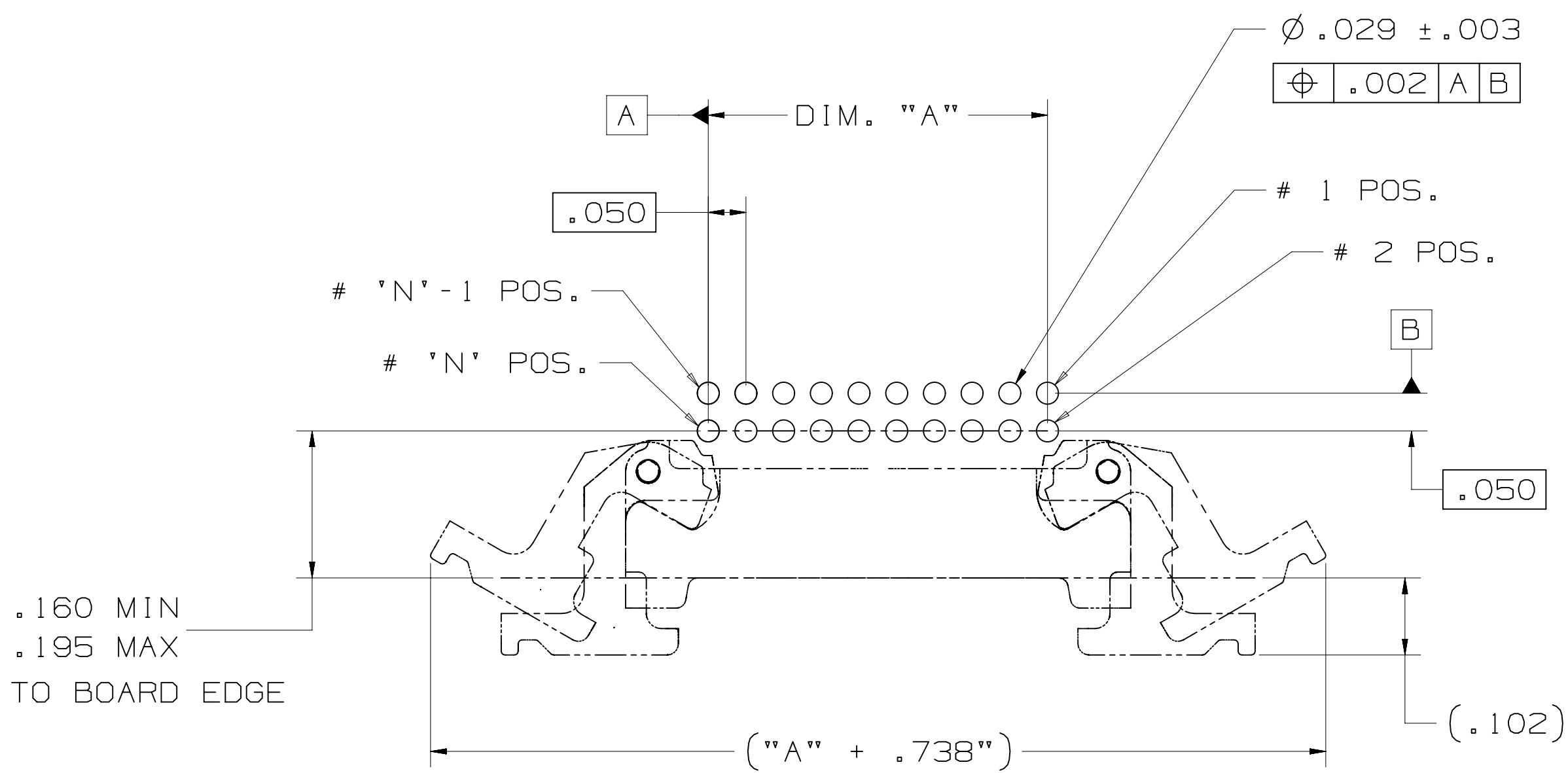
TABLE 1: RIGHT ANGLE THRU

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

DESIGN REFERENCE

NEXT ASSEMBLY

DO NOT SCALE DRAWING

SCALE 6 1

TOLERANCES EXCEPT AS NOTED

INCHES .0 ± .1 .00 ± .02 .000 ± .010 .0000 ± .0050

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS 12.5 SURFACES

MARKED ONLY

DIVISION

Interconnect Solutions

DIVISION CODE

ISD

REV

ECO

ISSUE DATE AND DESCRIPTION

DRFT

CHKD

NOV 29, 2012

PRC

NOV 29, 2012

3M

3M Center St. Paul, MN 55144

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TITLE

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

CAGE NUMBER

SIZE

DRAWING NO.

REV.

D

78-5100-2437-1

F

MODEL

DET

LISTS

YES

NO

SHT 2 OF 4

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

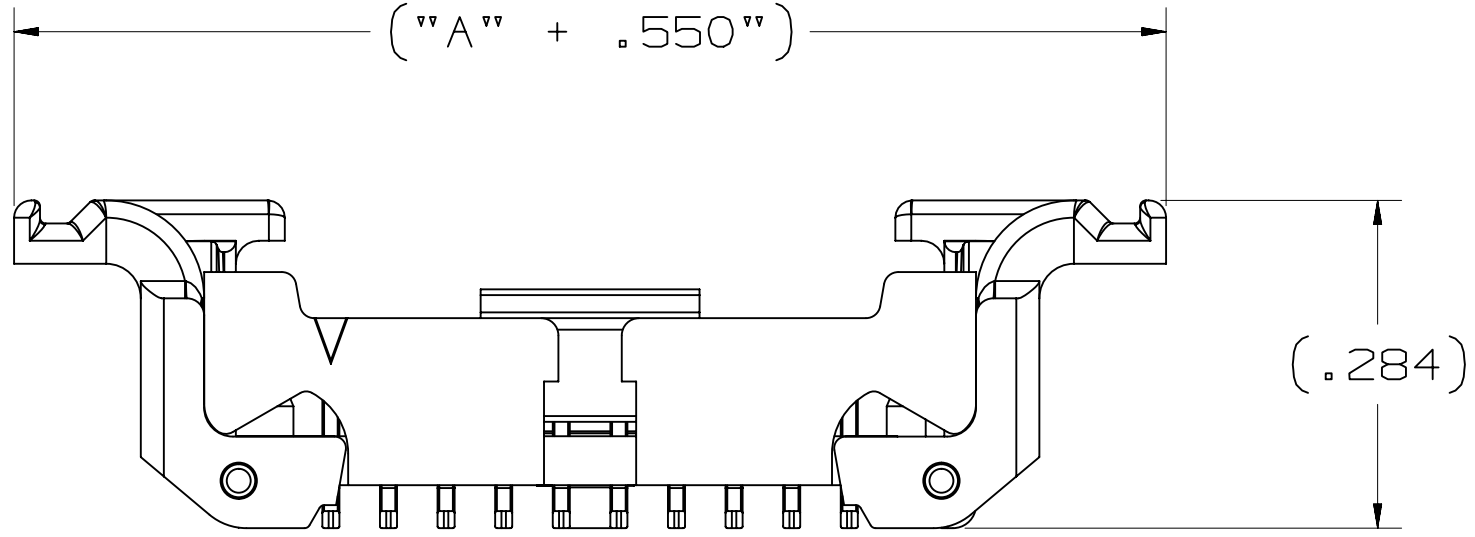
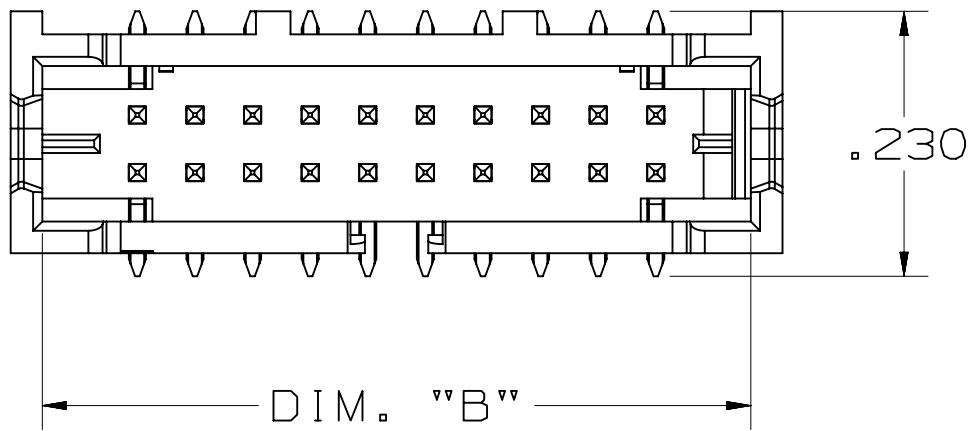
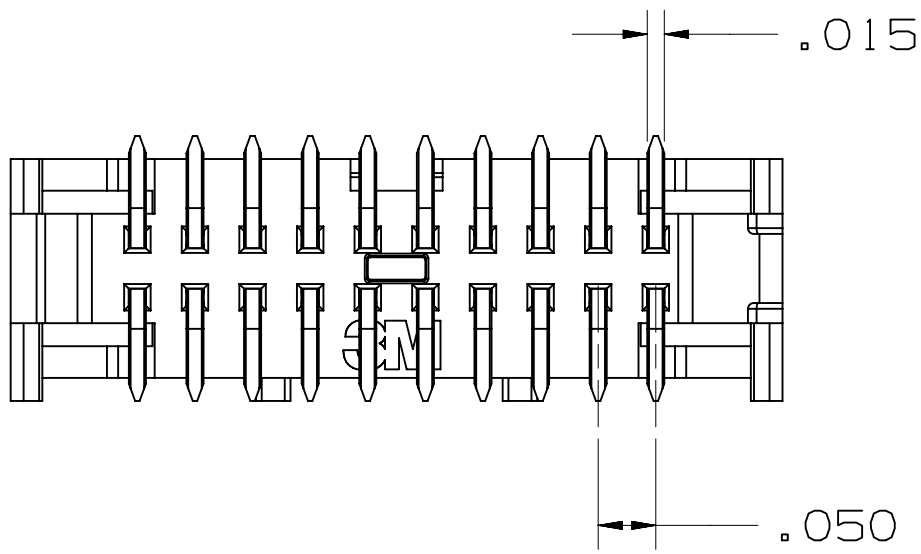
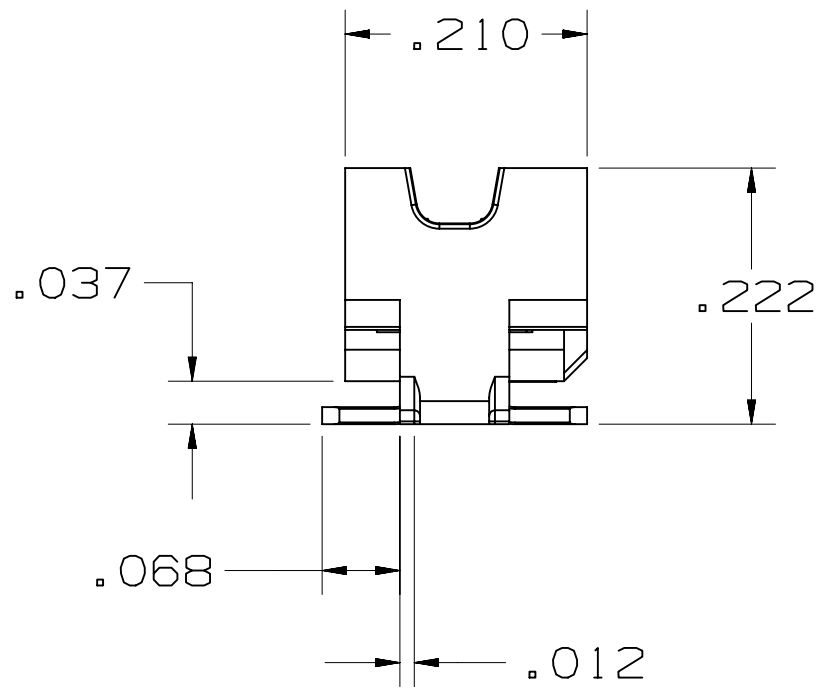
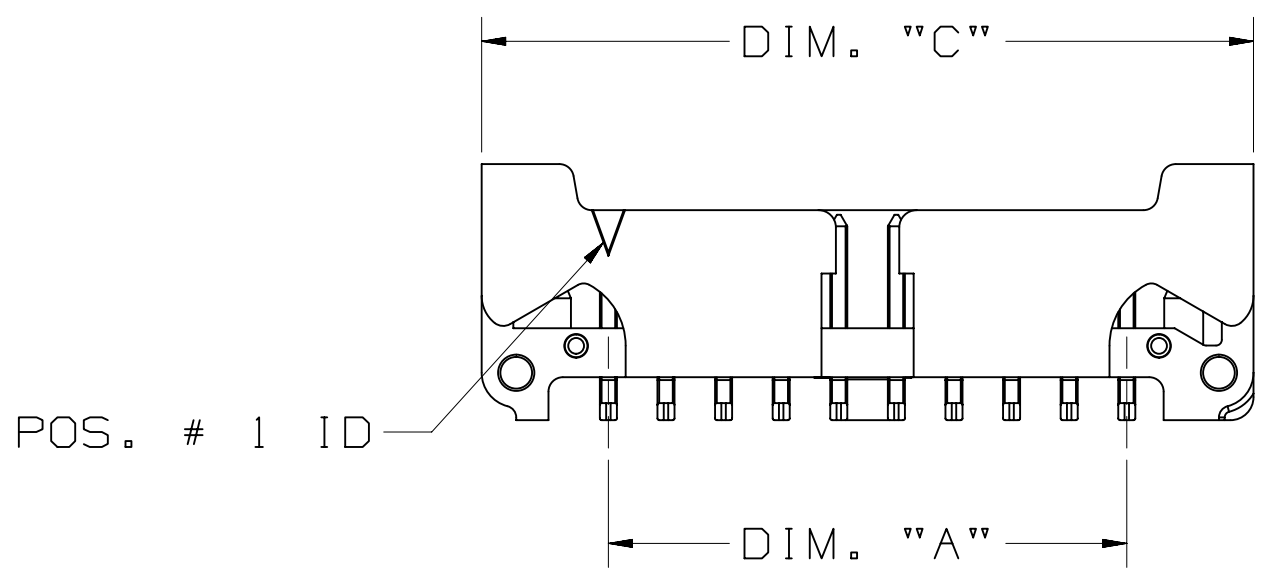
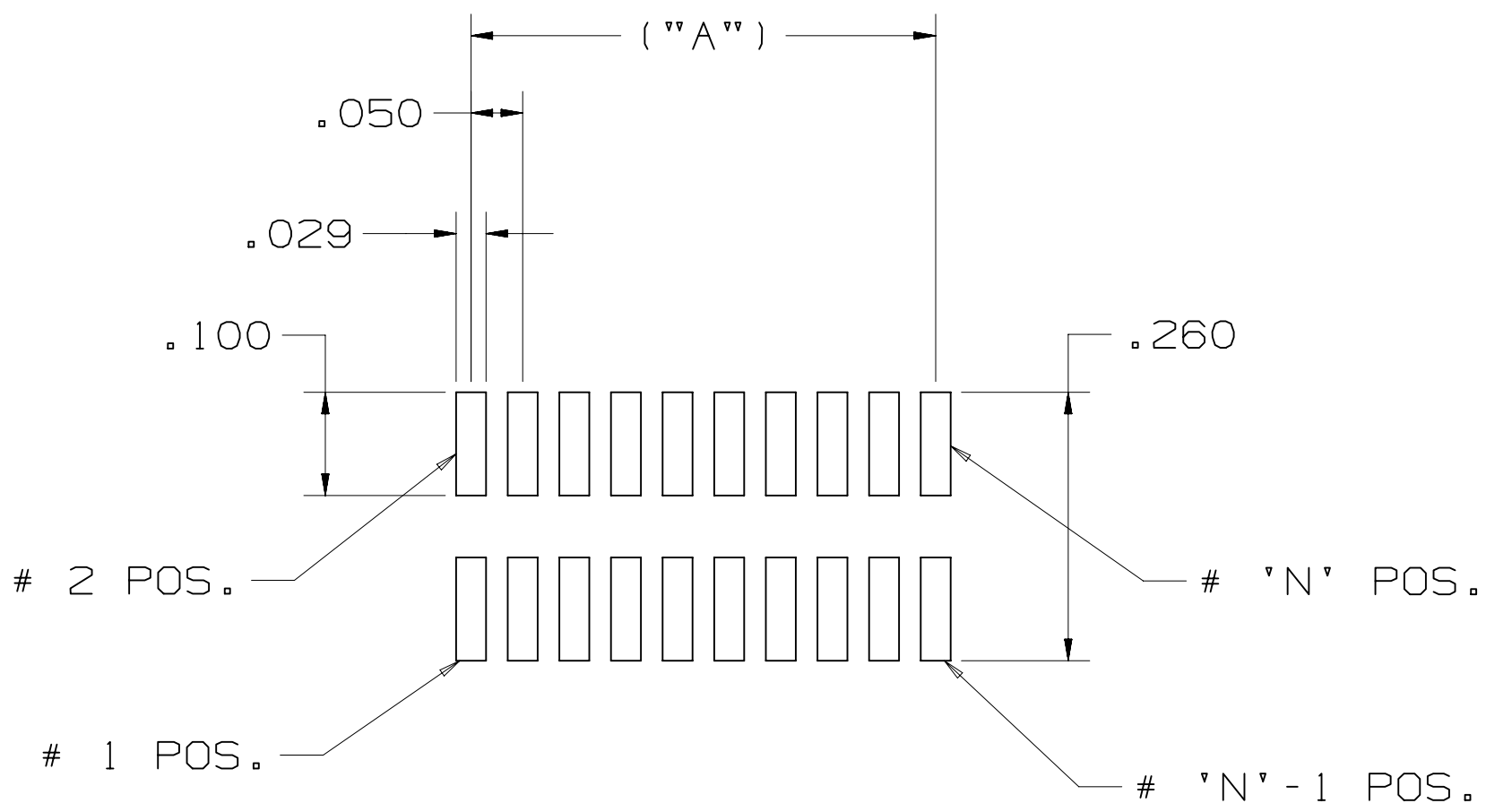


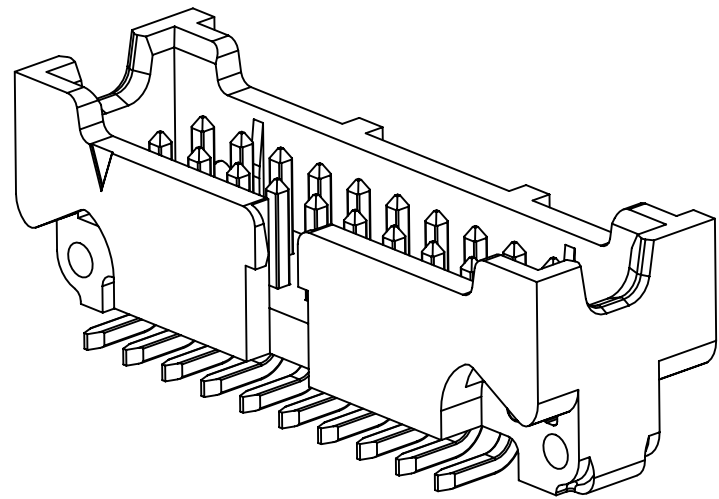
TABLE 1: VERTICAL SMT			
No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.215	.270
6	.100	.265	.320
8	.150	.315	.370
10	.200	.365	.420
12	.250	.415	.470
14	.300	.465	.520
16	.350	.515	.570
20	.450	.615	.670
30	.700	.865	.920



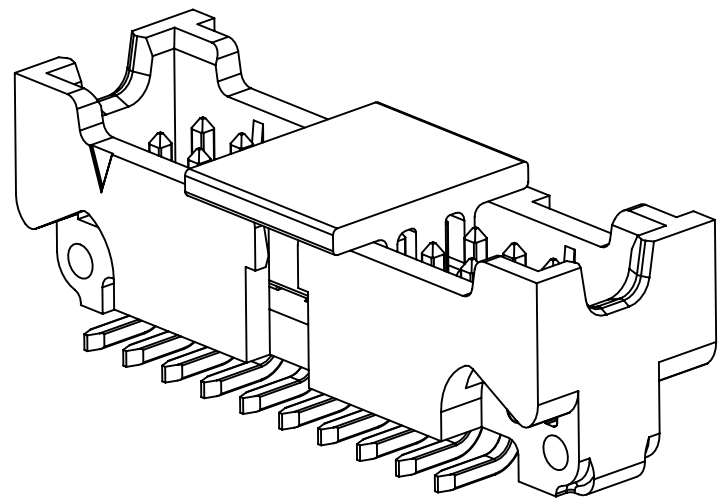
SURFACE MOUNT, VERTICAL



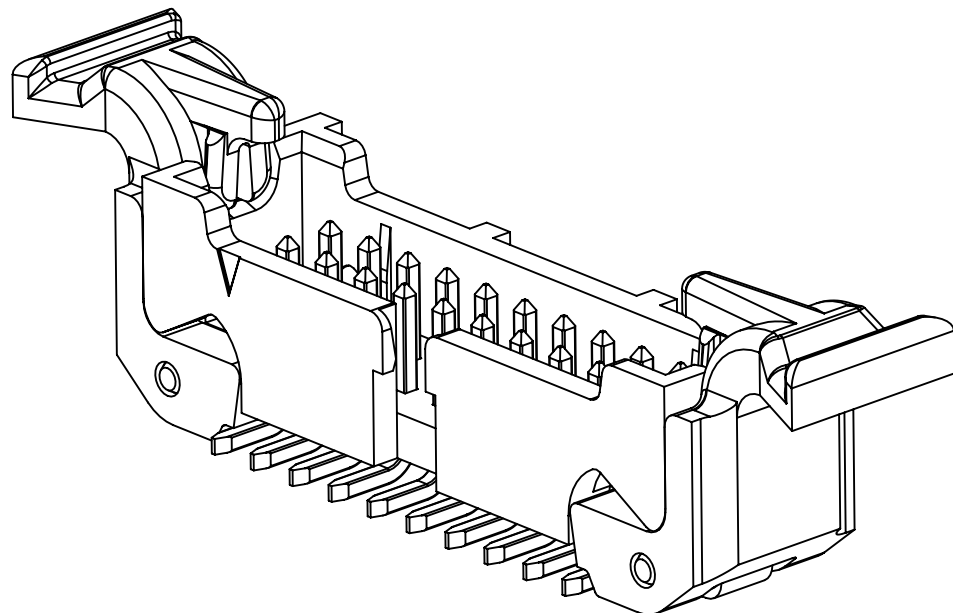
RECOMMENDED BOARD LAYOUT



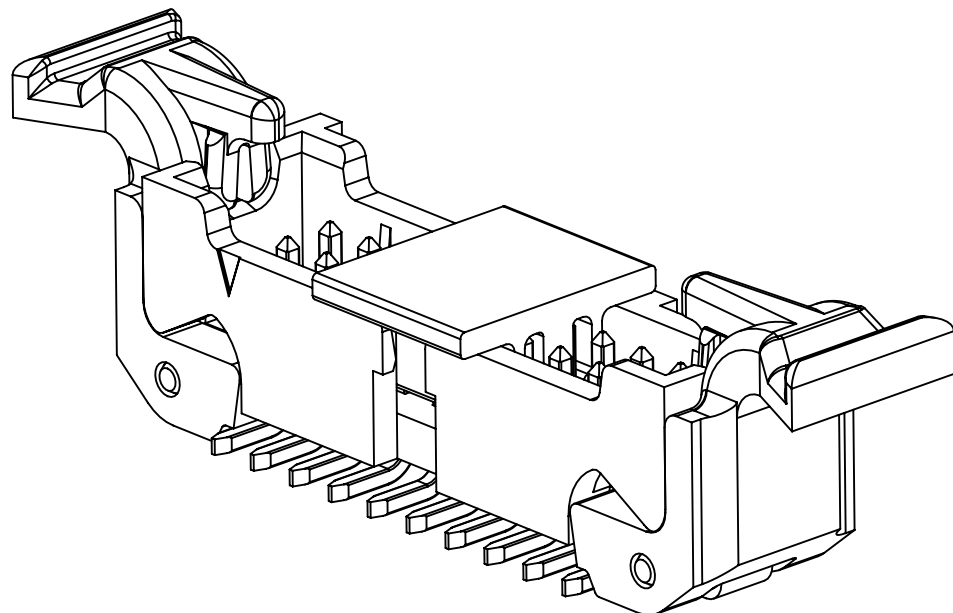
SHROUDED SMT HEADER



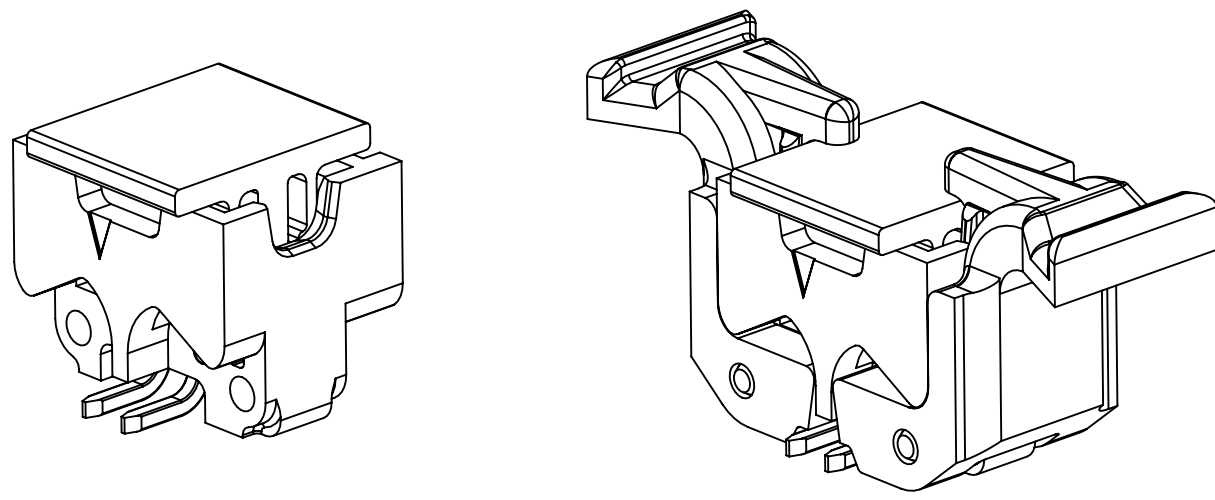
WITH VACUUM CAP



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

INCHES .00 ±.01 .00 ±.02 .000 ±.010 .0000 ±.0050

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS 12.5 SURFACES 3.2 MARKED ONLY

INTERCONNECT SOLUTIONS

DIVISION CODE

ISD

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3M Center St. Paul, MN 55144

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

CAGE NUMBER D78-5100-2437-1

SIZE

DRAWING NO.

REV. F

MODEL

DET

LISTS

YES

NO

SHT 3 OF 4

F	56988	SEP 24, 2014	JNC	SN
E	54514	JUN 19, 2014	SJS	SAN
D	51884	JAN 08, 2014	SJS	SAN
C	50290	OCT 08, 2013	JNC	SN
B	48635	JUL 12, 2013	JNC	SN
A	46797	MAR 25, 2013	JNC	SAN

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ARM	NOV 29, 2012	PRC	NOV 29, 2012	
SAN	NOV 29, 2012	SAN	NOV 29, 2012	

C

B



1

