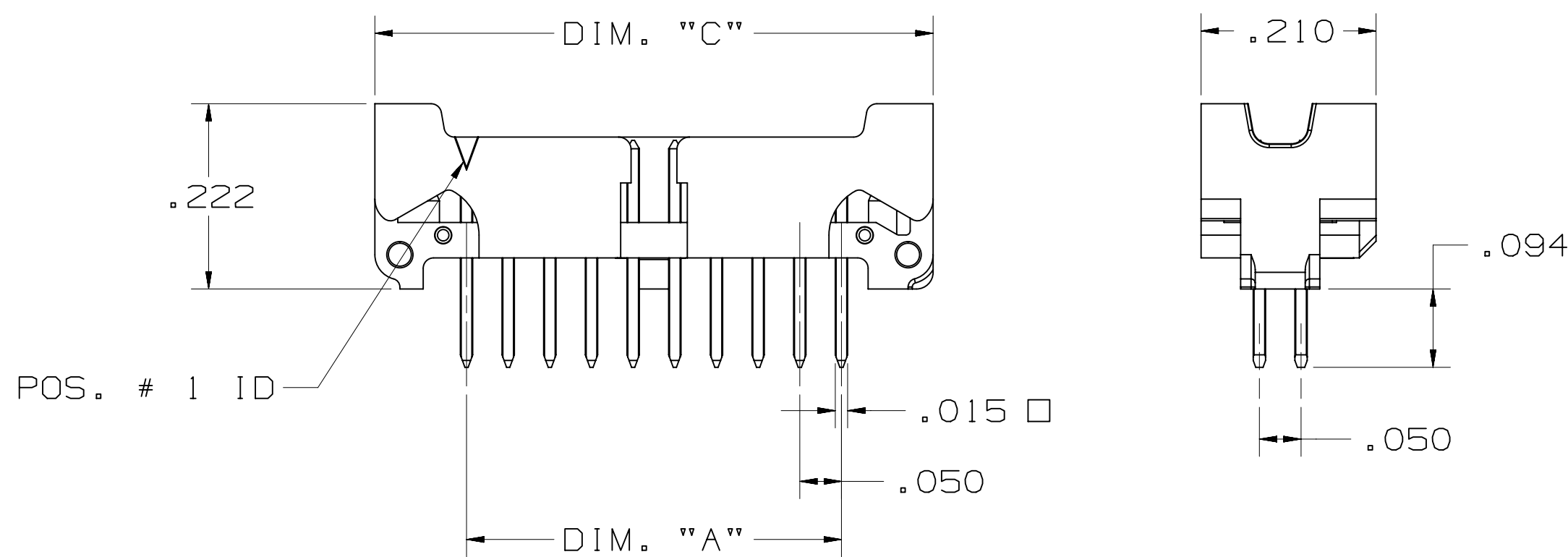
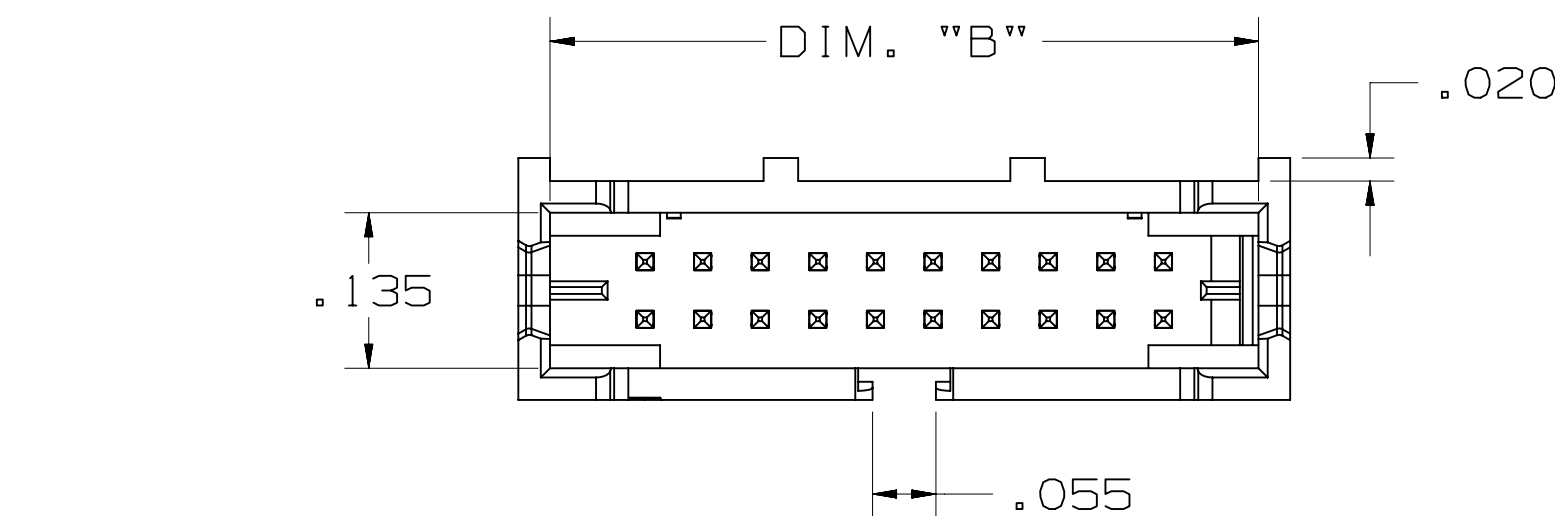
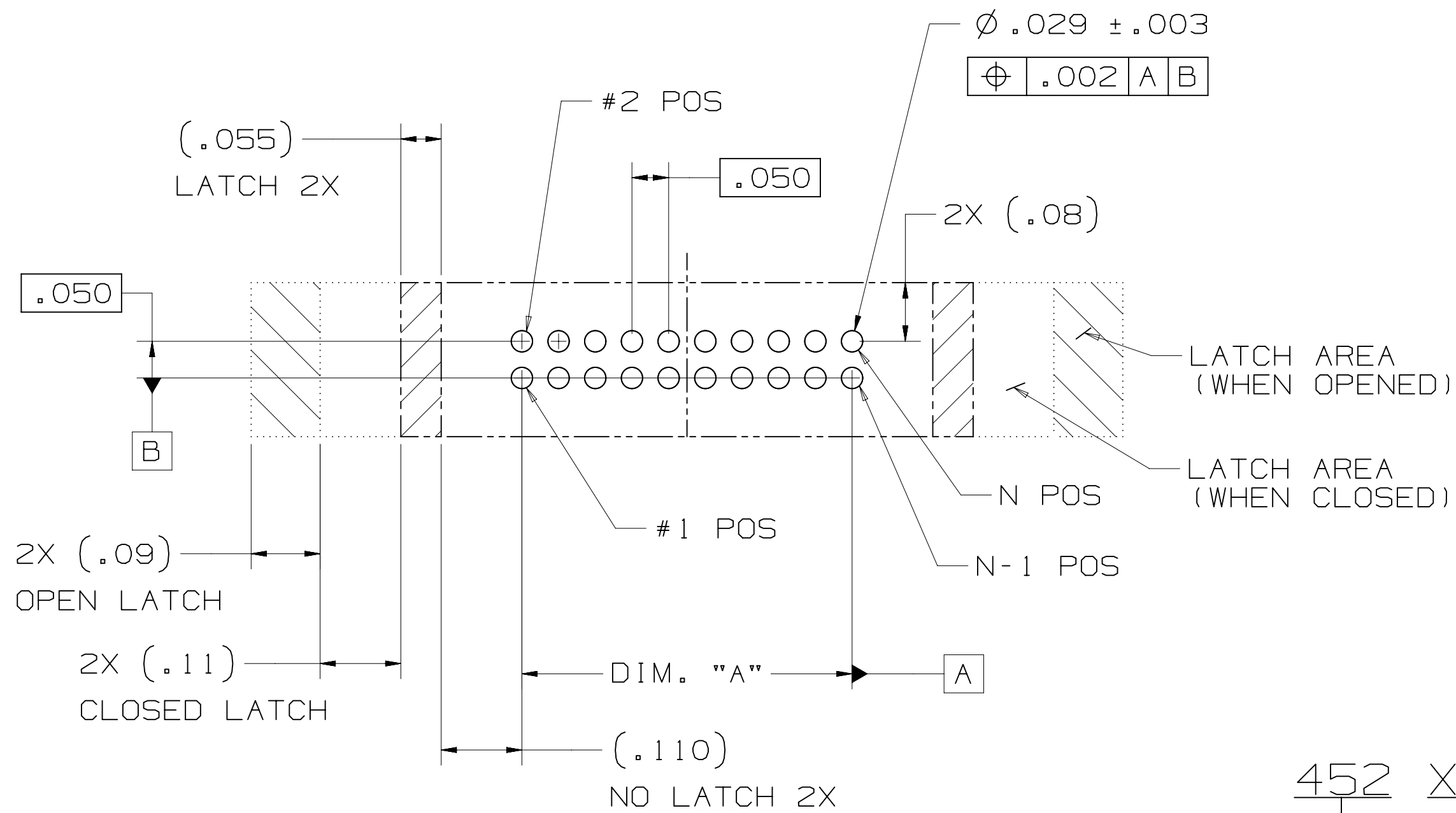


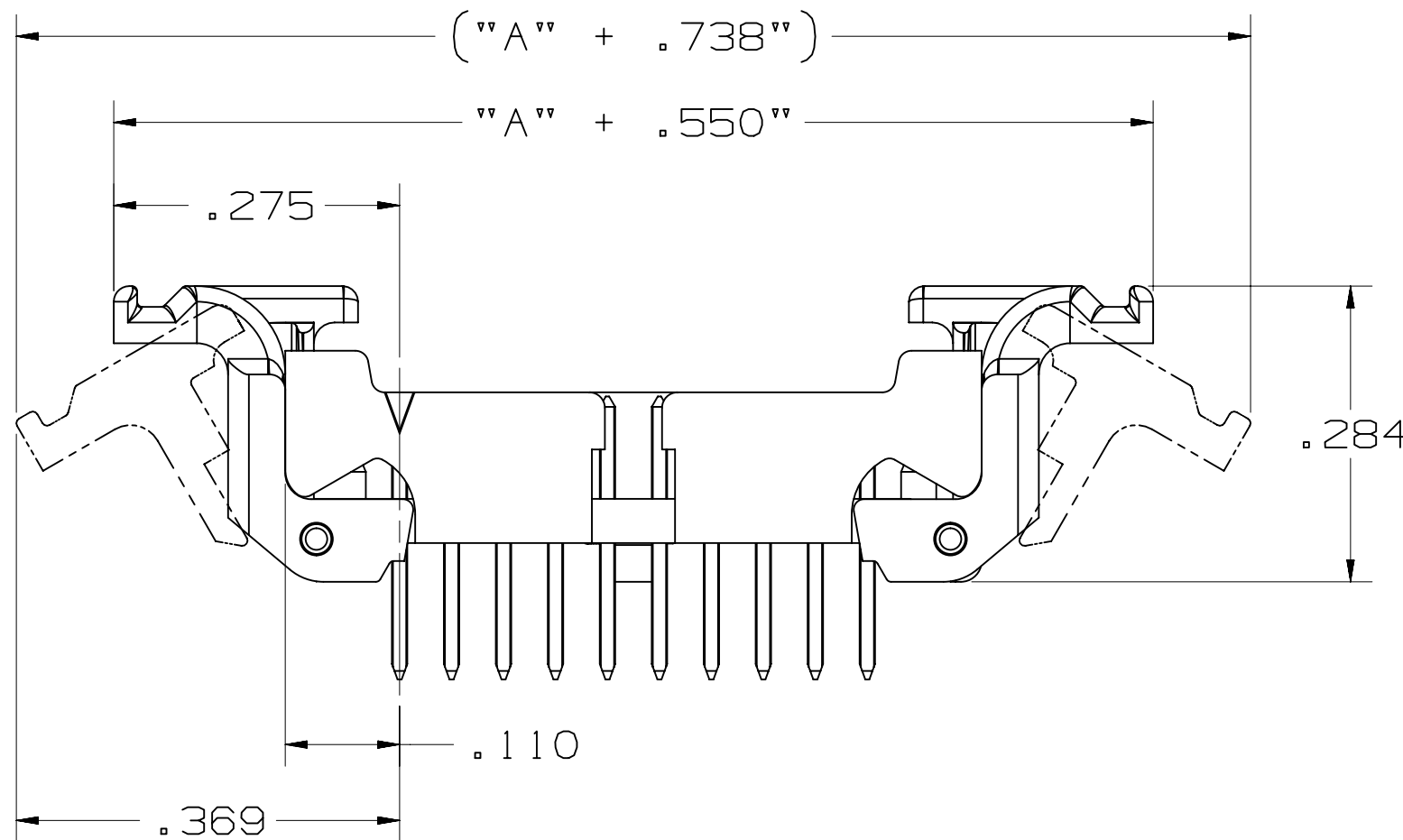
3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH
LATCH AND EJECT, 452 SERIES



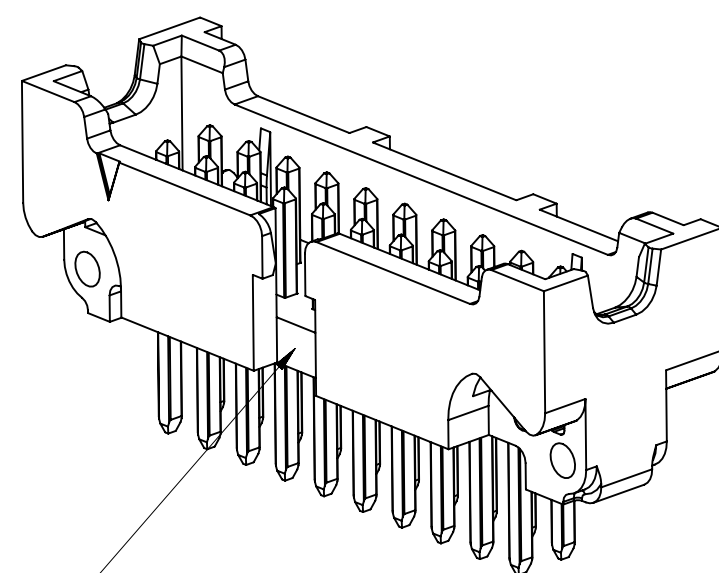
THRU BOARD, VERTICAL



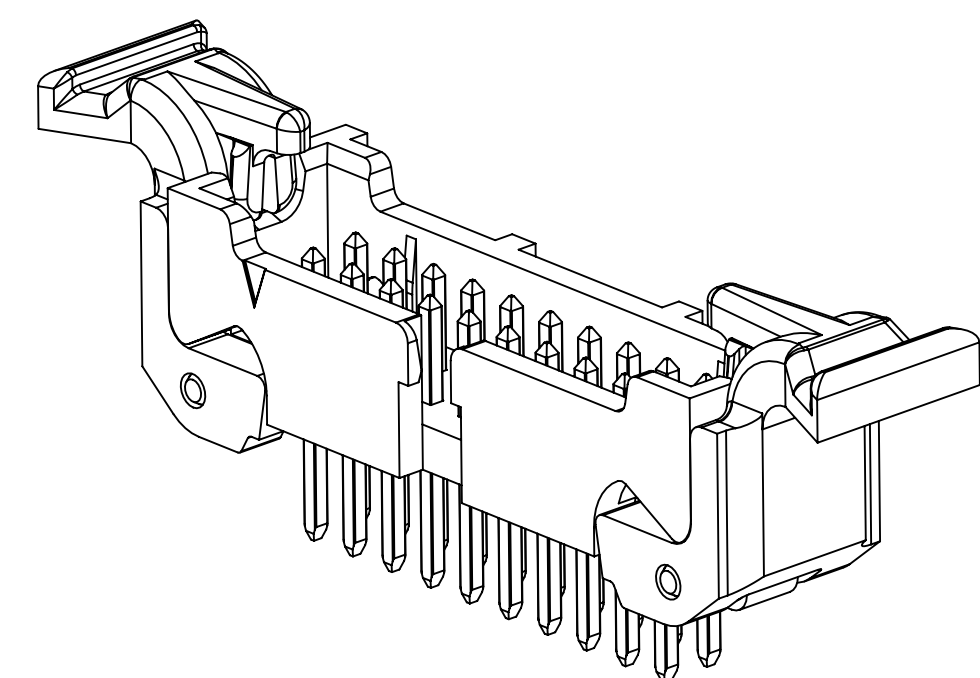
RECOMMENDED BOARD LAYOUT



THRU BOARD, VERTICAL WITH
LOW PROFILE LATCH/EJECT OPTION



POLARIZATION AND
FRICTION LATCHING
POSITIONS 8-30 ONLY



WITH LATCH/EJECT

TABLE 1: VERTICAL 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

- NOTES
- MATERIAL:
BODY: LCP, UL94V-0
LATCH: PPA, UL94V-0
CONTACTS: COPPER ALLOY.
 - PLATING:
50-150µ" NICKEL UNDERPLATE
30 = 30µ" GOLD MIN. ON
WIPING AREA WITH 200µ"
MATTE TIN ON SOLDER TAIL
00 = GOLD FLASH ON WIPING
AREA WITH
100-140µ" MATTE TIN ON
SOLDER TAIL.
 - MATING COMPATIBILITY:
3M 1.27mm (0.050"), 451
SERIES RIBBON CABLE SOCKET.
TECH SHEET 2436
 - 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)
 - IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT
SPECIFICATION TAKES
PRECEDENT.
 - REFERENCE PRODUCT SPEC:
3M DOC ID# 78-5102-0091-4
 - OTHER PIN COUNTS AVAILABLE
UPON REQUEST. CONTACT 3M.
 - 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.
 - PACKAGING:
VERTICAL THRU: TRAY
RIGHT ANGLE THRU: TRAY
VERTICAL SMT: TAPE AND REEL.

PERFORMANCE:	
CURRENT RATING:	1.0 A, ALL LINES ENERGIZED, 30°C TEMP RISE PER EIA 364-70 1.5 A, 6 LINES ENERGIZED, 30°C TEMP RISE PER EIA 364-70 2.5 A, 1 LINE ENERGIZED, 30°C TEMP RISE PER EIA 364-70
UL & CUL VOLTAGE RATING:	125V _{ac}
INSULATION RESISTANCE:	> 1 × 10 ⁹ Ohms AT 500 VDC
WITHSTANDING VOLTAGE:	1250VACrms AT SEA LEVEL
OPERATING TEMPERATURE:	-65°C to +125°C
UL & CUL OPERATING TERMERATURE:	+125°C
PROCESSING TEMPERATURE:	260°C
LEAD-FREE SOLDERABLE:	YES
MOISTURE SENSITIVITY LEVEL:	MSL1 PER J-STD-020

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

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FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

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

SERIES

POSITION COUNT
04 - 30
SEE TABLE 1

PLATING
00 = AU FLASH
30 = 30µ" GOLD

CONTACT TAIL
2 = STANDARD (.094")

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

UL FILE NO: E68080

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
MAX SURFACE ROUGHNESS	0.00 ± .001	0.00 ± .001
MARKED ONLY	0.00 ± .001	0.00 ± .001

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	
3M				
BOARDMOUNT HEADER, .05 X .05 PITCH, L/E, 452 SERIES				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-2437-1	F		
MODEL	LISTS	YES	NO	SHT 1 OF 4

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

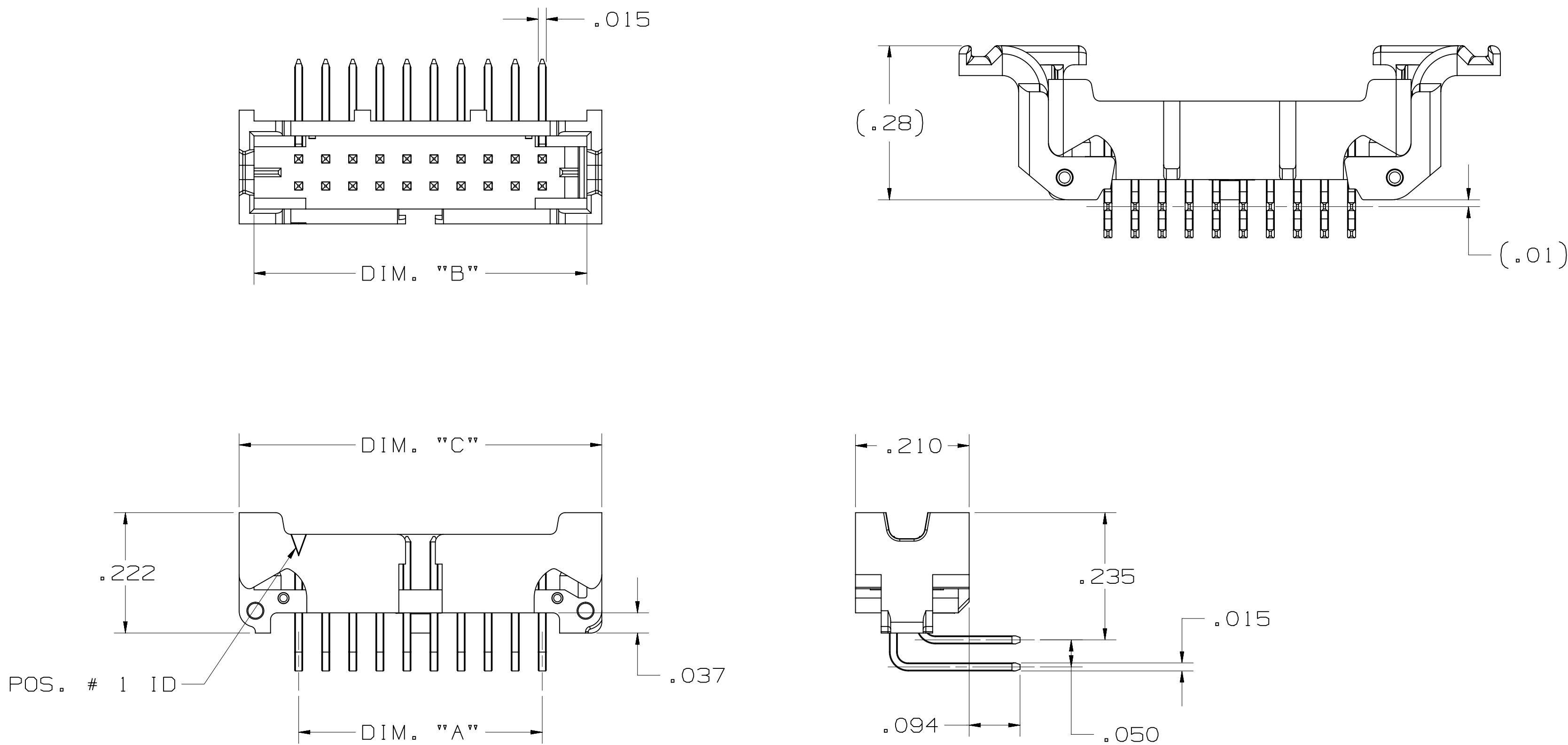
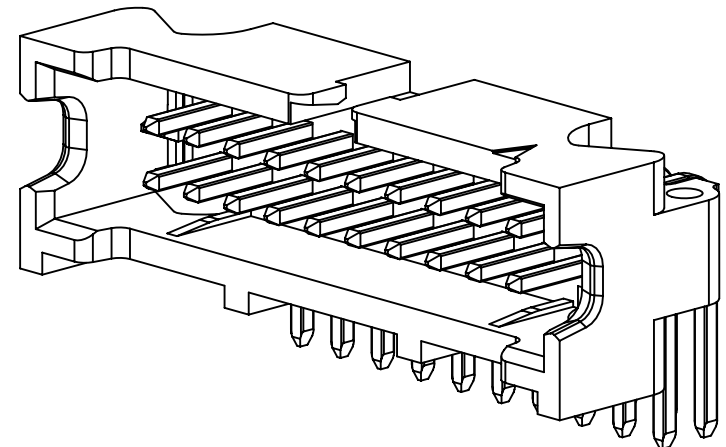
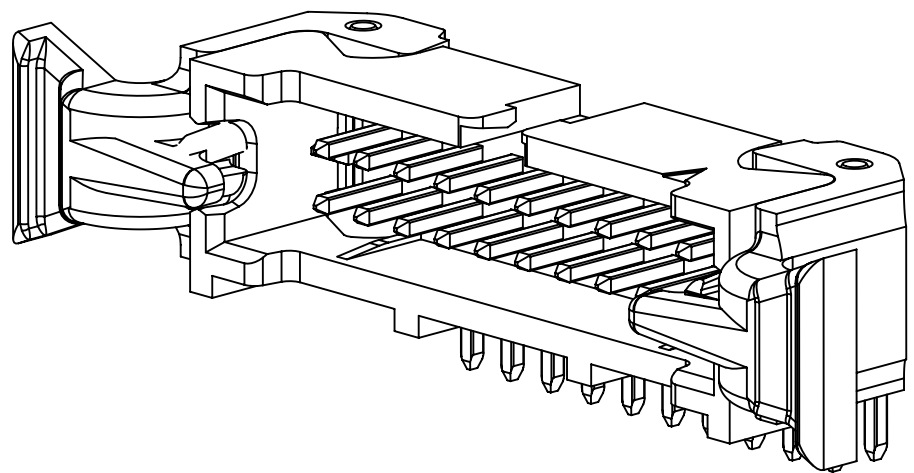


TABLE 1: RIGHT ANGLE THRU

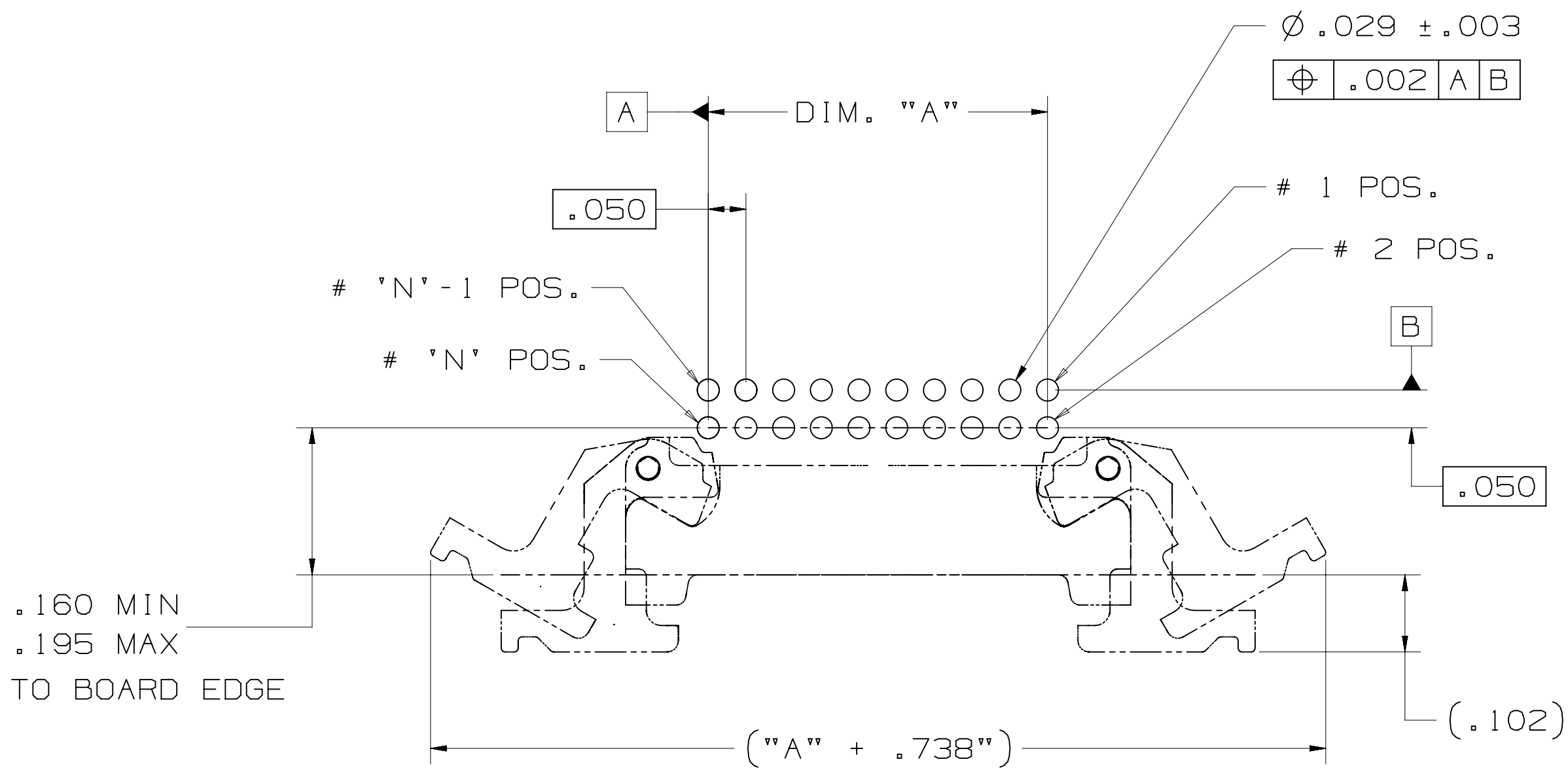
No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.215	.270
6	.100	.265	.320
8	.150	.315	.370
10	.200	.365	.420
12	.250	.415	.470
14	.300	.465	.520
16	.350	.515	.570
20	.450	.615	.670
30	.700	.865	.920



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	PRC	DATE	NOV 29, 2012
DIVISION		DIVISION CODE		3M Center		This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.				
Interconnect Solutions		ISD		3M		TITILE				
DO NOT SCALE DRAWING		SCALE 6 1		TOLERANCES EXCEPT AS NOTED		BOARDMOUNT HEADER, .05 X .05 PITCH, L/E, 452 SERIES				
THIRD ANGLE PROJECTION		INCHES .0 .1 .00 .000 .0000 ± .0050		MILLIMETERS 0 .0 .00 .000 ± .0050		CAGE NUMBER D 78-5100-2437-1				
INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS		CAGE NUMBER		DRAWING NO. 78-5100-2437-1				
MAX SURFACE ROUGHNESS		SURFACES		MODEL		REV. F				
MARKED ONLY		ANGLES		MODEL		SHT 2 OF 4				

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

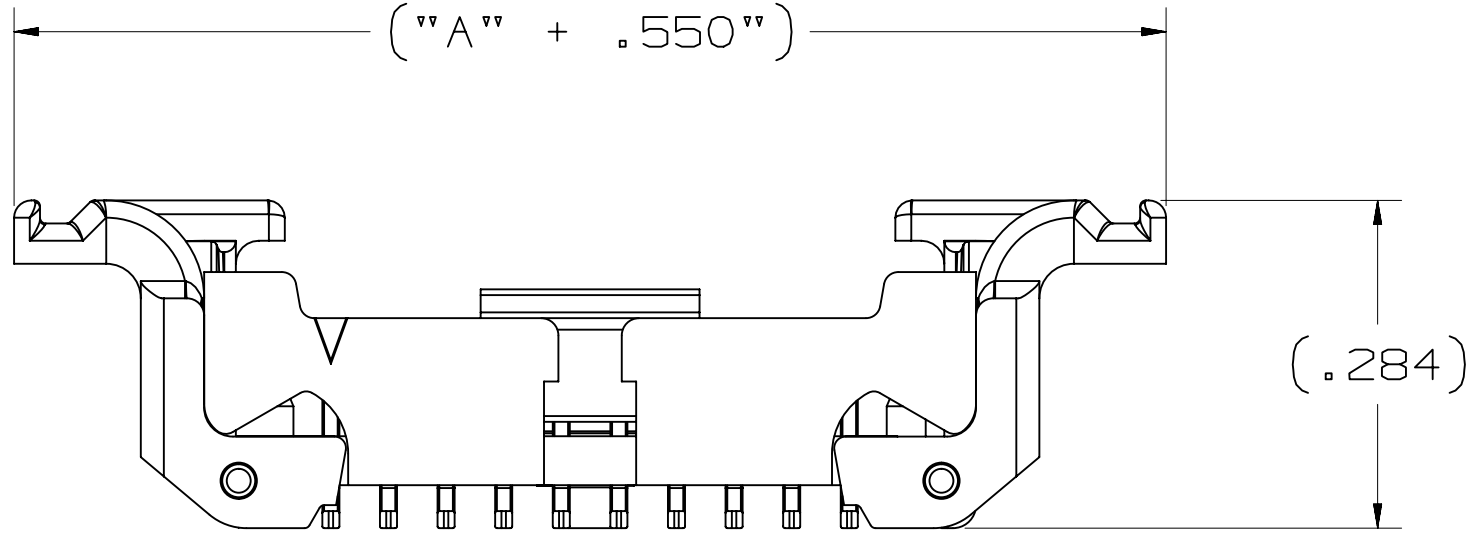
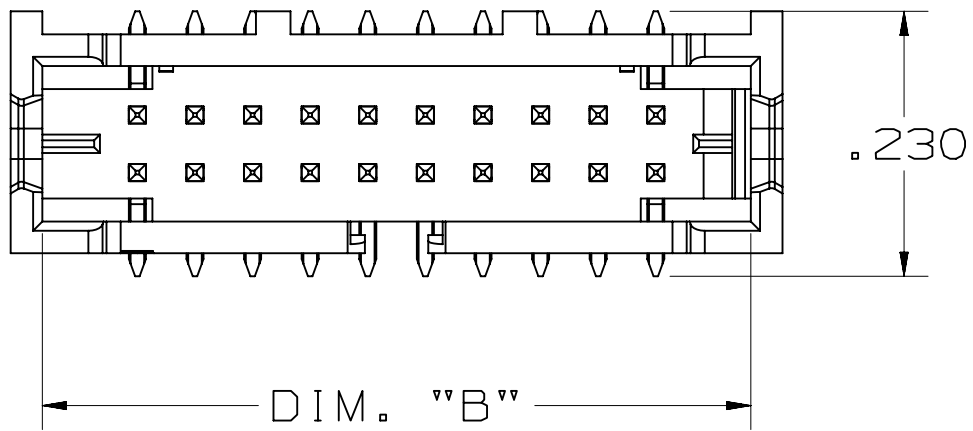
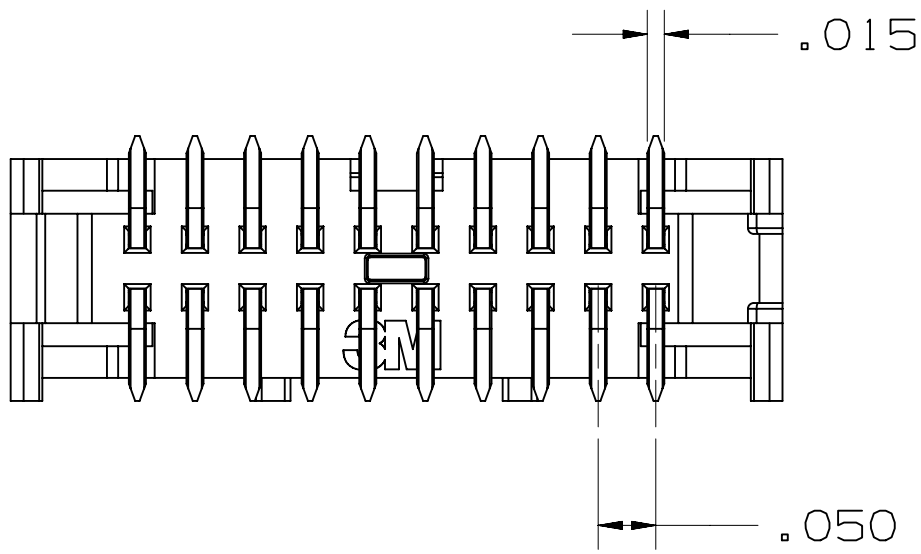
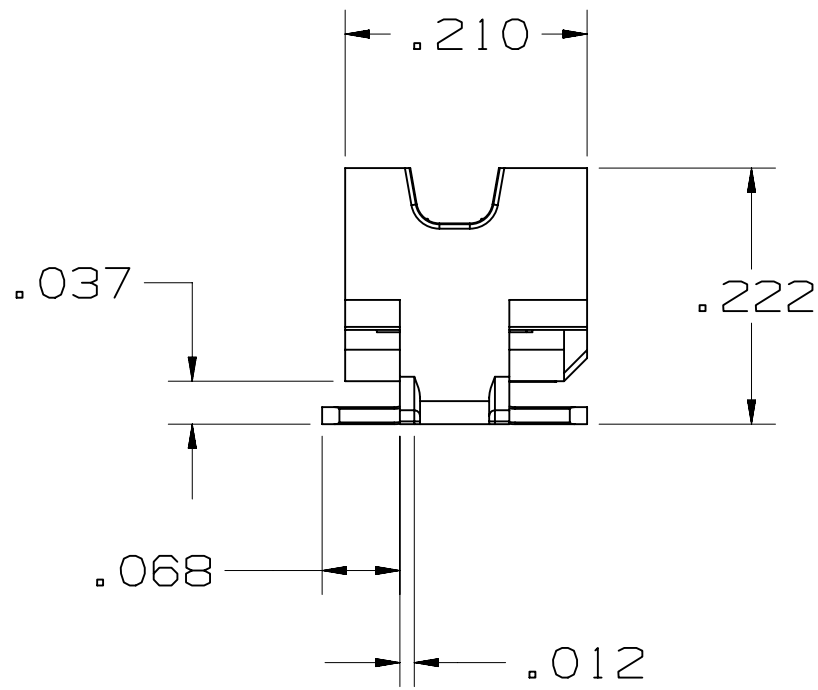
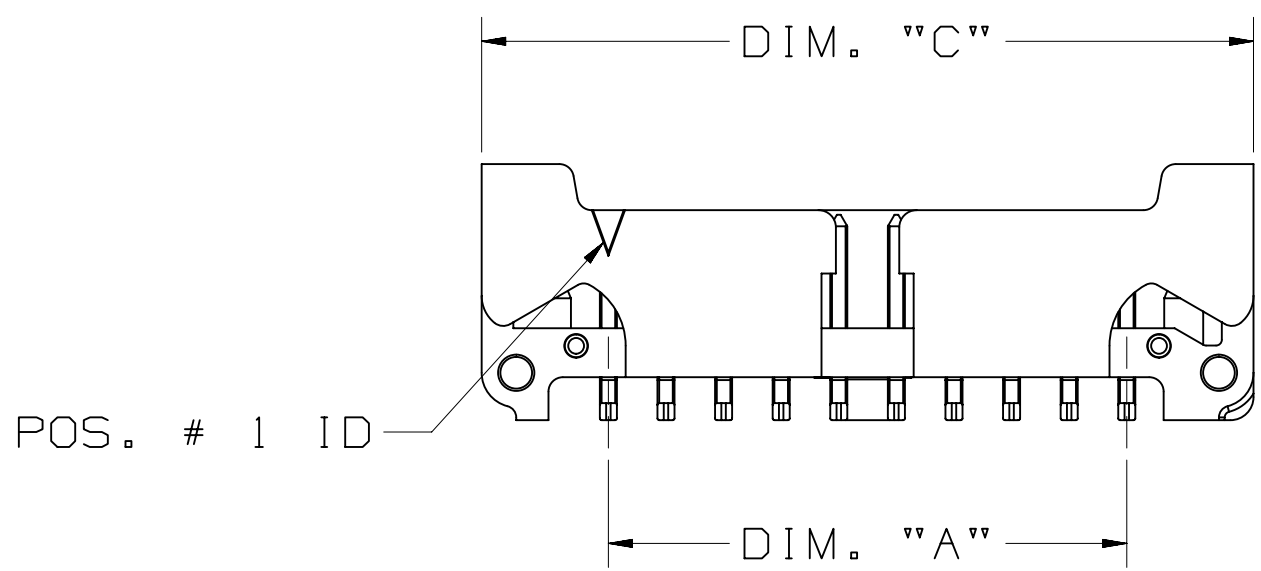
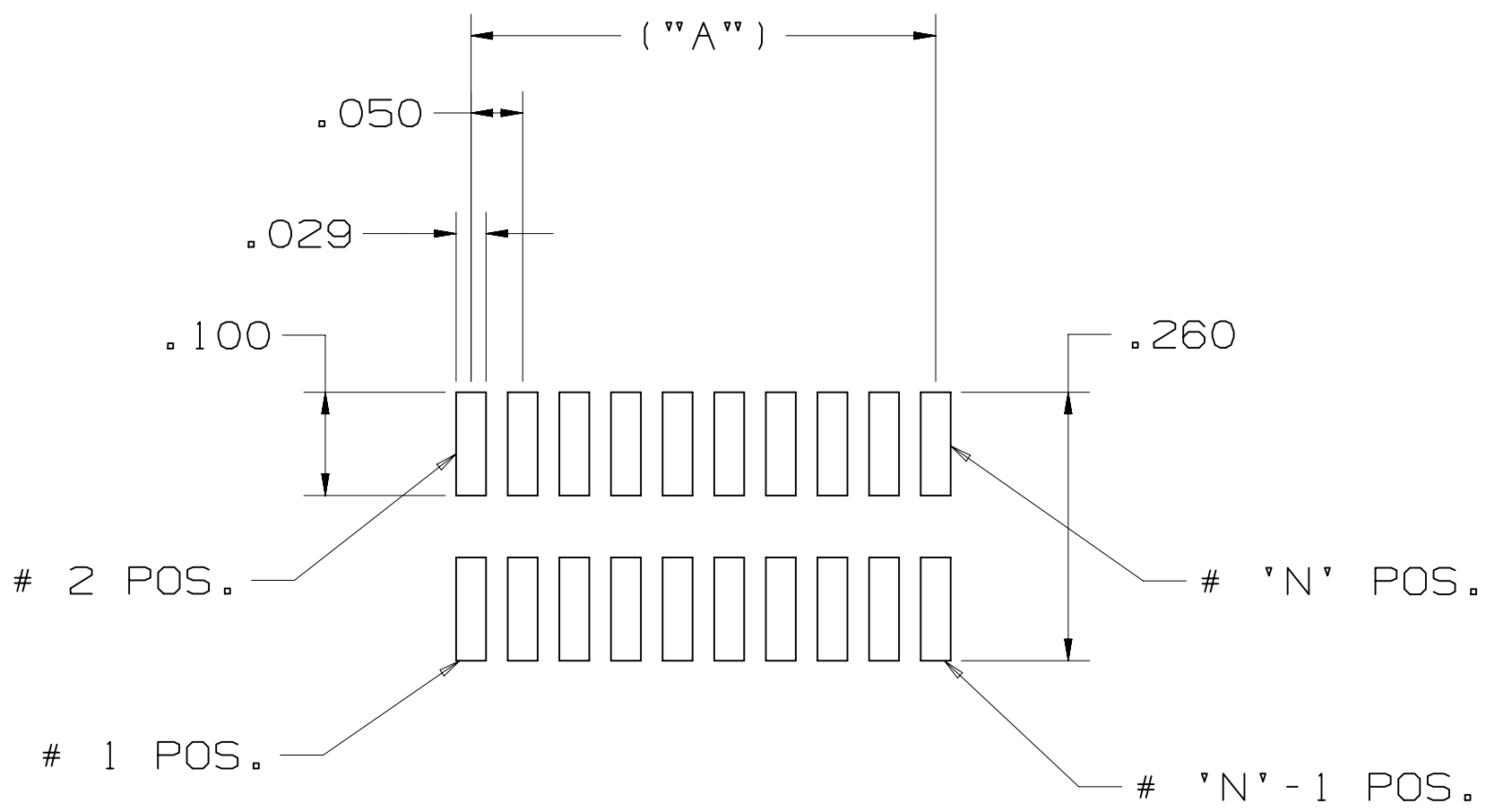


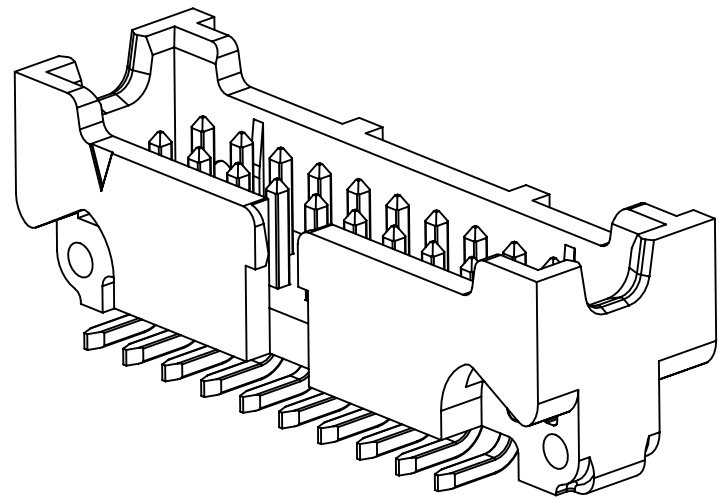
TABLE 1: VERTICAL SMT			
No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.215	.270
6	.100	.265	.320
8	.150	.315	.370
10	.200	.365	.420
12	.250	.415	.470
14	.300	.465	.520
16	.350	.515	.570
20	.450	.615	.670
30	.700	.865	.920



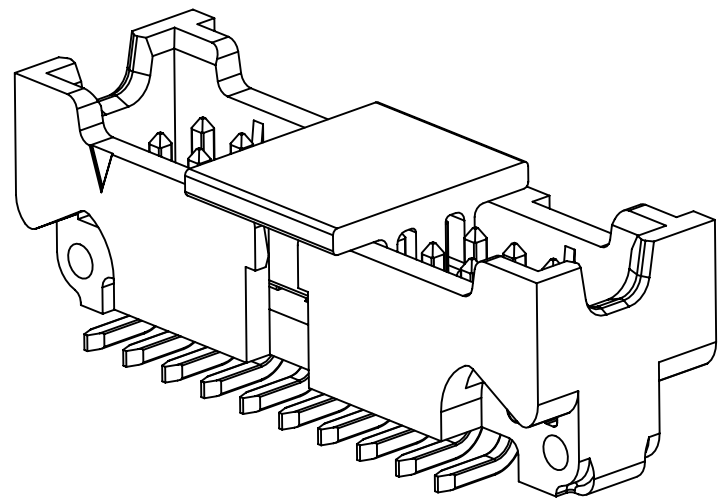
SURFACE MOUNT, VERTICAL



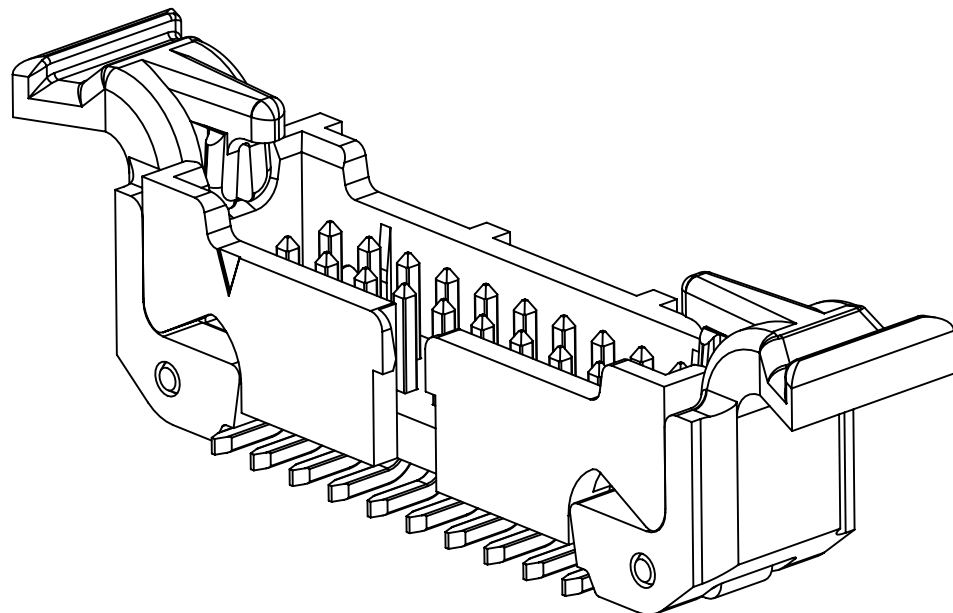
RECOMMENDED BOARD LAYOUT



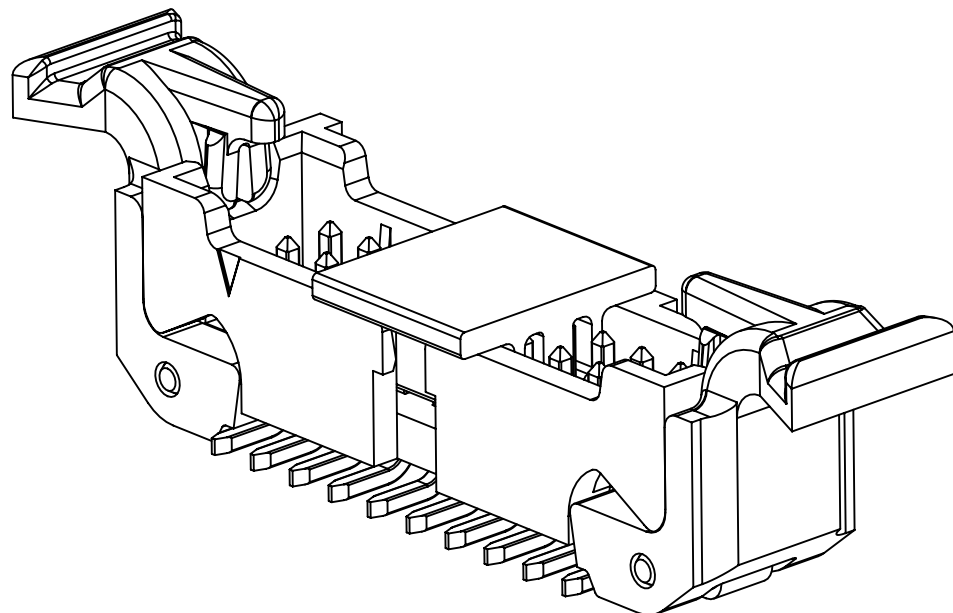
SHROUDED SMT HEADER



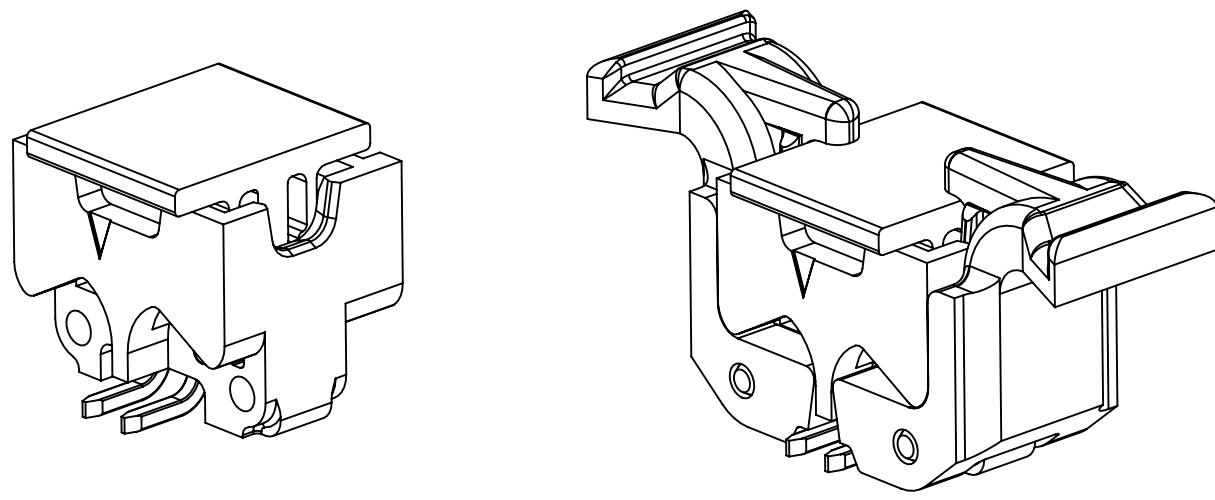
WITH VACUUM CAP



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		NEXT ASSEMBLY		REV	ECO	PRODUCTION RELEASE		DATE	CHKD		
DESIGN REFERENCE		NEXT ASSEMBLY		DRFT	ARM	ISSUE DATE AND DESCRIPTION	DATE	NOV 29, 2012	PRC	DATE	NOV 29, 2012
ADDITIONS		CORRECTIONS		CHKD	SAN	DATE	NOV 29, 2012	SAN	DATE	NOV 29, 2012	
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		INCHES .0 + .01 - .02 + .010 - .0000 + .0050		MILLIMETERS 0 +							

C

B



1-

