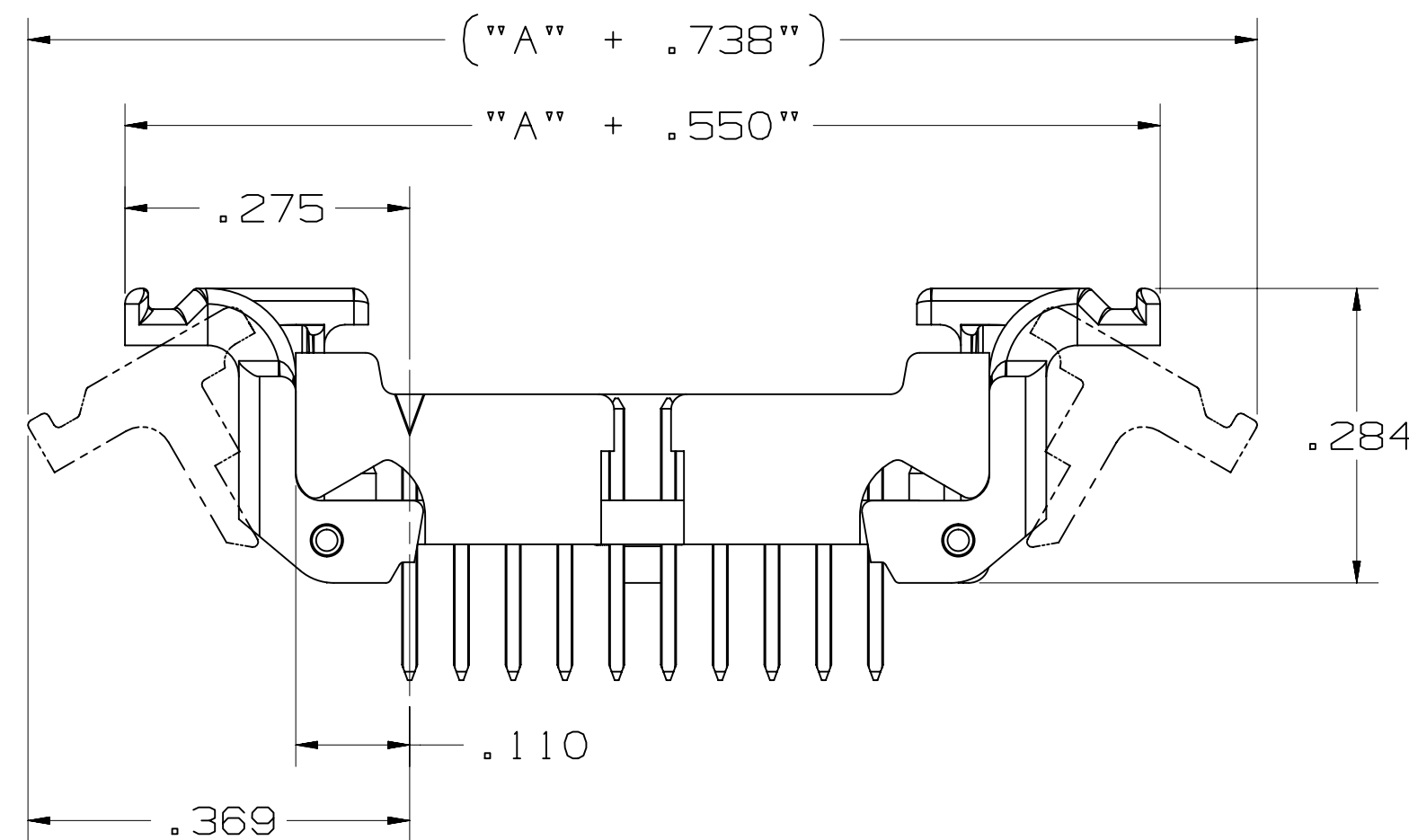
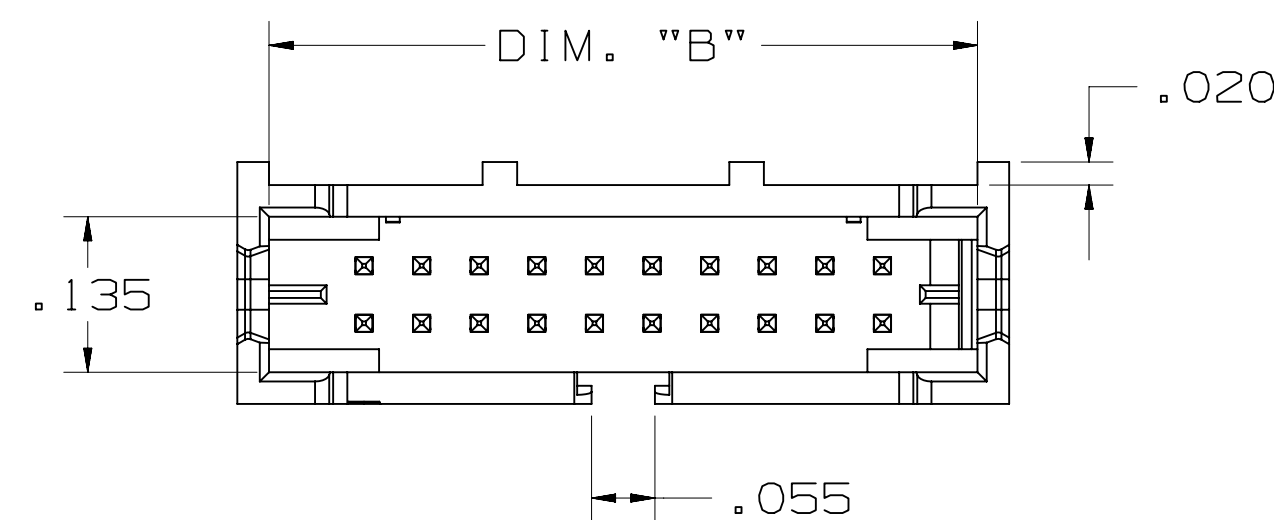
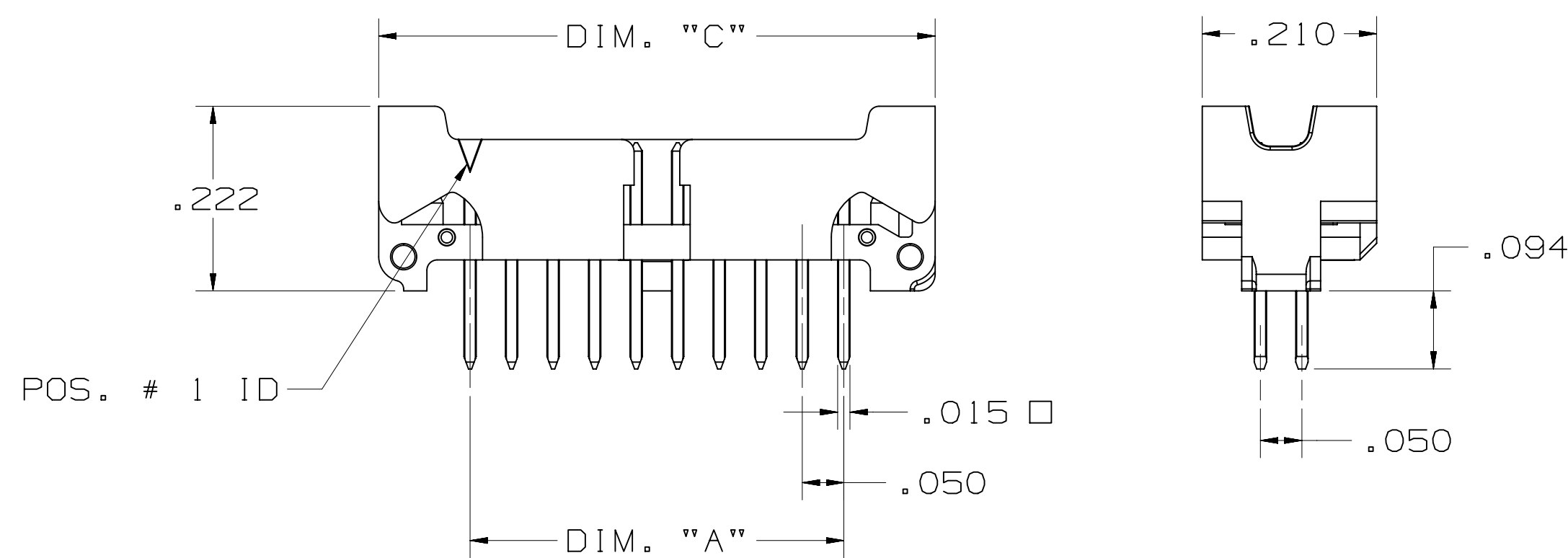


3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH  
LATCH AND EJECT, 452 SERIES, TS2437

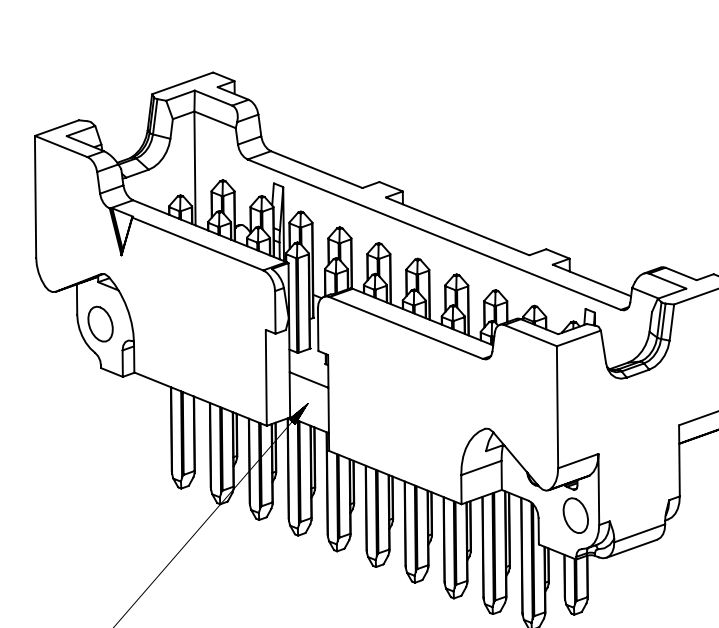


THRU BOARD, VERTICAL WITH  
LOW PROFILE LATCH/EJECT OPTION

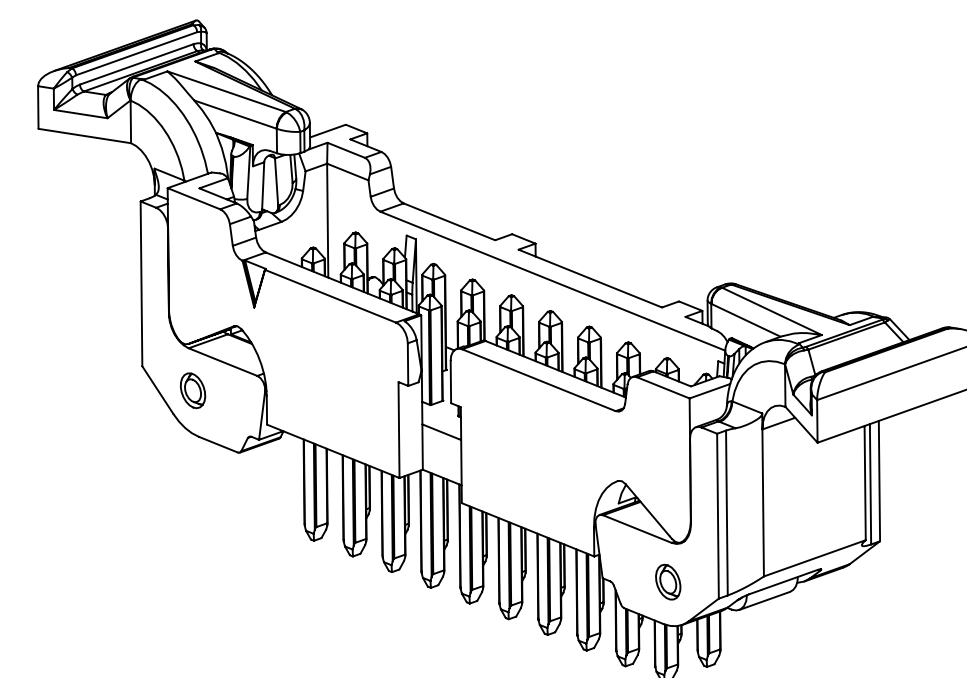
| No.<br>Positions | Dim<br>"A" | Dim<br>"B" | Dim<br>"C" |
|------------------|------------|------------|------------|
| 4                | .050       | .215       | .270       |
| 6                | .100       | .265       | .320       |
| 8                | .150       | .315       | .370       |
|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



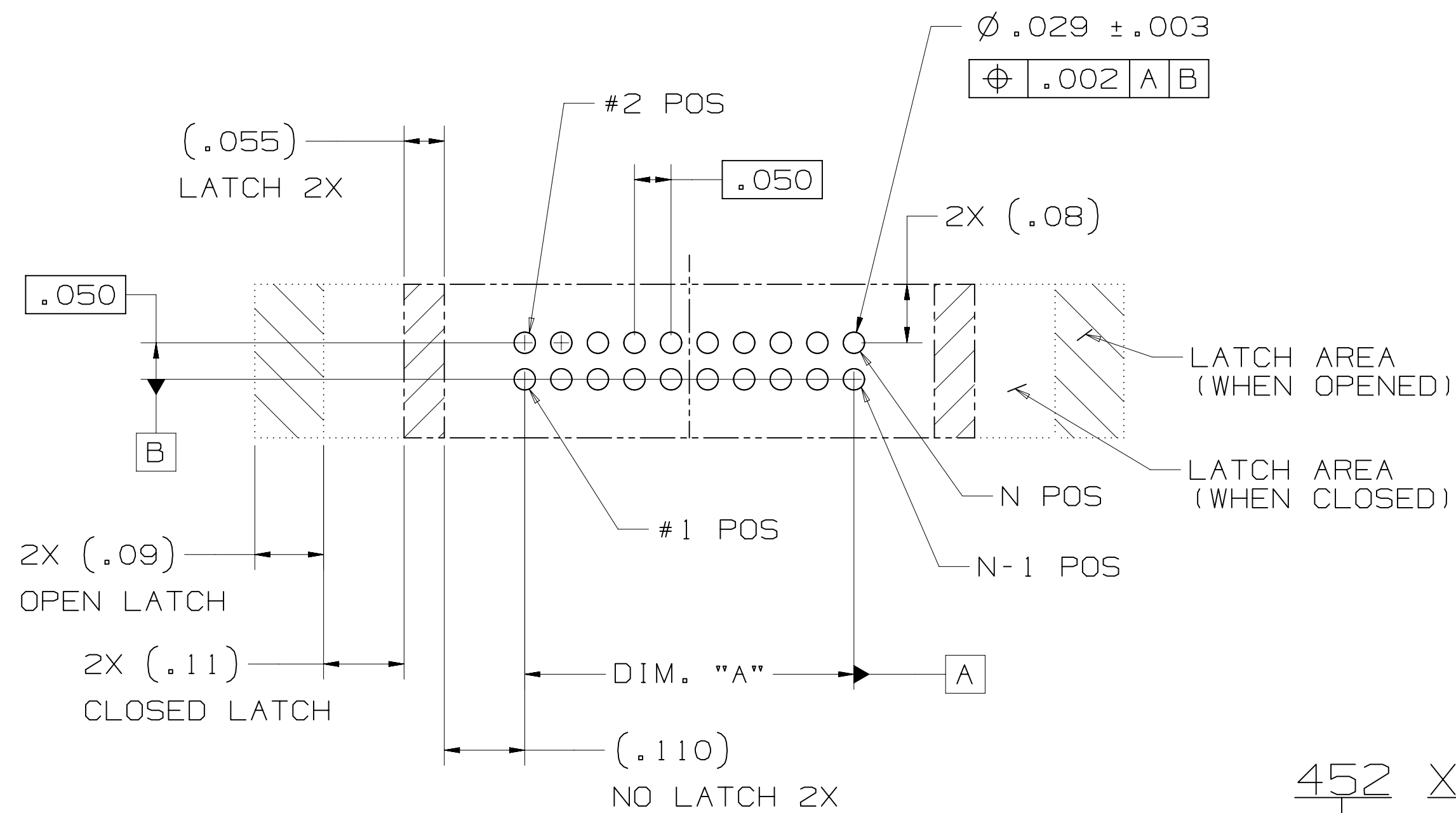
THRU BOARD, VERTICAL



- 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       | LATCH/EJECT                  |
| 5 = RIGHT ANGLE THRU HOLE, TRAY PACKAGING    | 0 = NO LATCHES               |
| 2 = VERTICAL SMT, TAPE AND REEL WITH VAC CAP | 2 = WITH LOW PROFILE LATCHES |

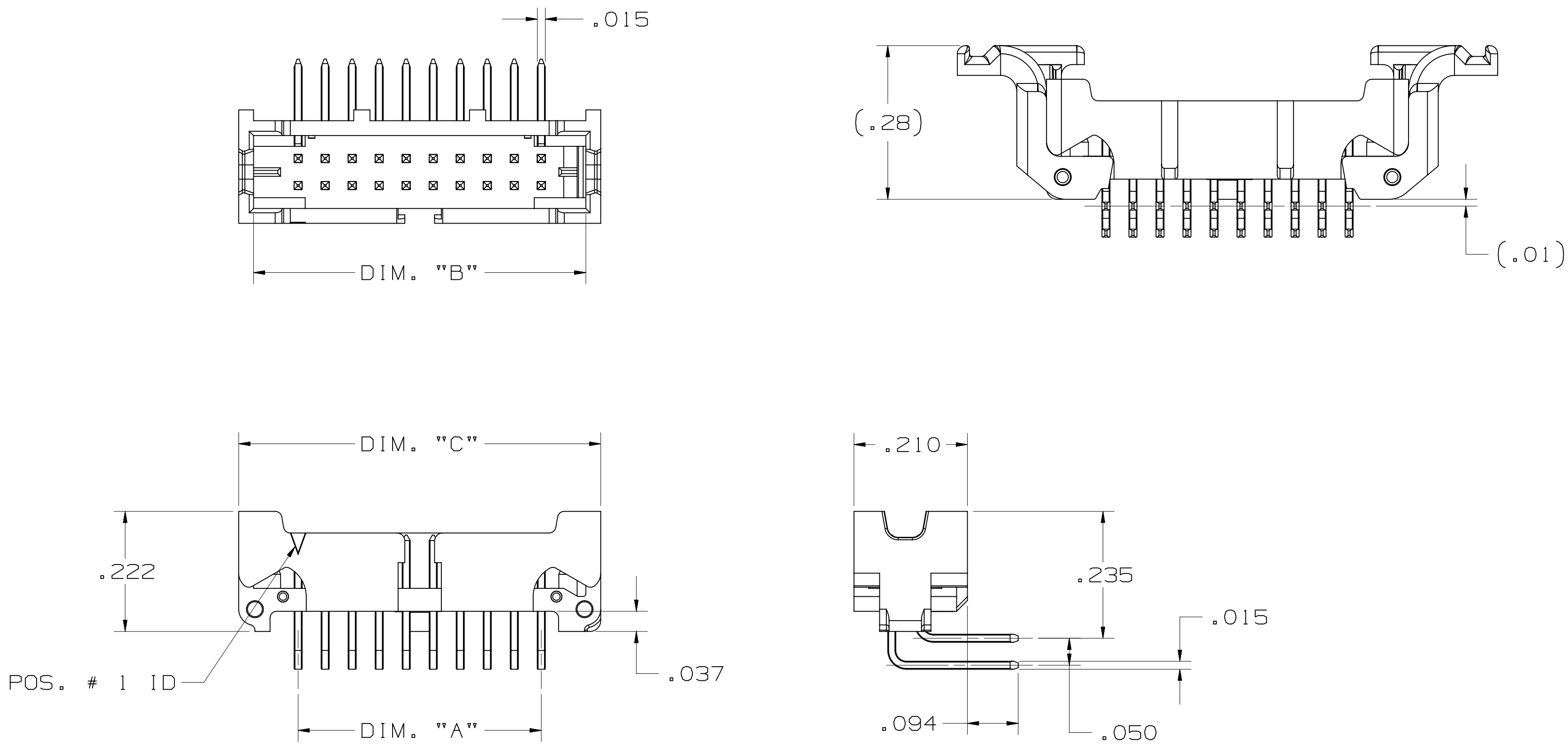
3M ELECTRONIC SOLUTIONS DIVISION  
INTERCONNECT SOLUTIONS  
<http://www.3mconnectors.com>

3M IS A TRADEMARK OF 3M COMPANY.  
FOR TECHNICAL, SALES OR ORDERING  
INFORMATION CALL 800-225-5373

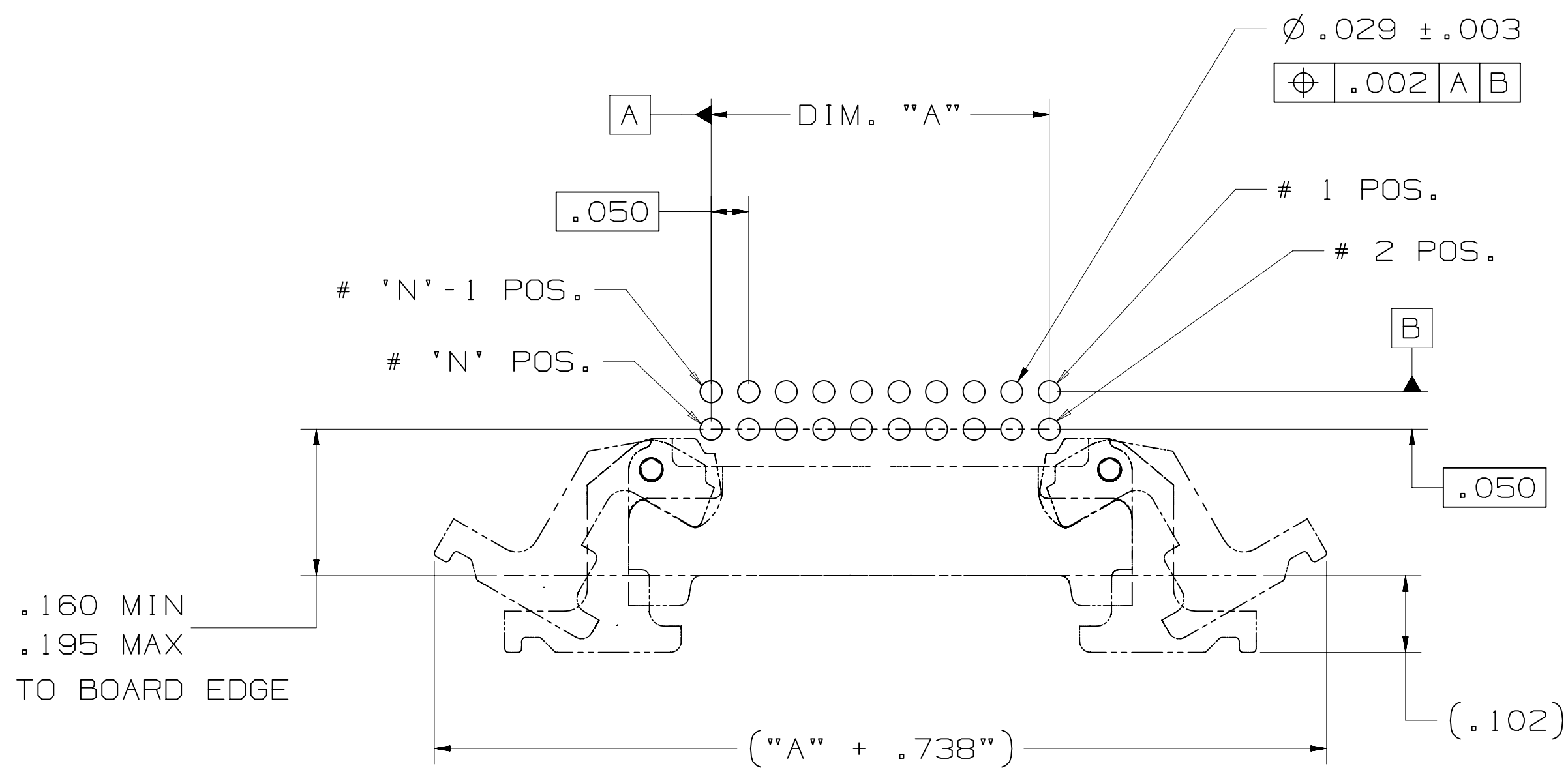
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UL FILE NO: E68080

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| 78-5100-2436-3                   |  | A 46797                |  | MAR 25, 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 78-5100-2396-9                   |  |                        |  | PRODUCTION RELEASE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| DESIGN REFERENCE                 |  | NEXT ASSEMBLY          |  | REV ECO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                                   |  | DRFT CHKD         |  |
| ACCESS CODES                     |  |                        |  | DRFT ARM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                   |  | MFG PRC           |  |
|                                  |  |                        |  | DATE NOV 29, 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| DIVISION                         |  | DIVISION CODE          |  | 3M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                   |  |                   |  |
| Interconnect Solutions           |  | ISD                    |  | 3M Center<br>St. Paul,<br>MN 55144                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| DO NOT SCALE<br>DRAWING          |  | SCALE<br>6<br>1        |  | TOLERANCES<br>EXCEPT AS<br>NOTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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|                                  |  | THIRD ANGLE PROJECTION |  | INCHES<br>+0<br>+1<br>.00<br>+02<br>.000<br>+010<br>+0000<br>+0050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| INTERPRET PER<br>ASME Y14.5 2009 |  | MILLIMETERS<br>0<br>+  |  | MAY SURFACE ROUGHNESS<br>0.40 SURFACES<br>0.80 SURFACES<br>1.60 SURFACES<br>3.20 SURFACES<br>6.30 SURFACES<br>12.50 SURFACES<br>25.00 SURFACES<br>50.00 SURFACES<br>100.00 SURFACES<br>200.00 SURFACES<br>400.00 SURFACES<br>800.00 SURFACES<br>1600.00 SURFACES<br>3200.00 SURFACES<br>6400.00 SURFACES<br>12800.00 SURFACES<br>25600.00 SURFACES<br>51200.00 SURFACES<br>102400.00 SURFACES<br>204800.00 SURFACES<br>409600.00 SURFACES<br>819200.00 SURFACES<br>1638400.00 SURFACES<br>3276800.00 SURFACES<br>6553600.00 SURFACES<br>13107200.00 SURFACES<br>26214400.00 SURFACES<br>52428800.00 SURFACES<br>104857600.00 SURFACES<br>209715200.00 SURFACES<br>419430400.00 SURFACES<br>838860800.00 SURFACES<br>1677721600.00 SURFACES<br>3355443200.00 SURFACES<br>6710886400.00 SURFACES<br>13421772800.00 SURFACES<br>26843545600.00 SURFACES<br>53687091200.00 SURFACES<br>107374182400.00 SURFACES<br>214748364800.00 SURFACES<br>429496729600.00 SURFACES<br>858993459200.00 SURFACES<br>1717986918400.00 SURFACES<br>3435973836800.00 SURFACES<br>6871947673600.00 SURFACES<br>13743895347200.00 SURFACES<br>27487790694400.00 SURFACES<br>54975581388800.00 SURFACES<br>109951162777600.00 SURFACES<br>219902325555200.00 SURFACES<br>439804651110400.00 SURFACES<br>879609302220800.00 SURFACES<br>1759218604441600.00 SURFACES<br>3518437208883200.00 SURFACES<br>7036874417766400.00 SURFACES<br>14073748835532800.00 SURFACES<br>28147497671065600.00 SURFACES<br>56294995342131200.00 SURFACES<br>112589990684262400.00 SURFACES<br>225179981368524800.00 SURFACES<br>450359962737049600.00 SURFACES<br>900719925474099200.00 SURFACES<br>1801439850948198400.00 SURFACES<br>3602879701896396800.00 SURFACES<br>7205759403792793600.00 SURFACES<br>14411518807585587200.00 SURFACES<br>28823037615171174400.00 SURFACES<br>57646075230342348800.00 SURFACES<br>115292150460684697600.00 SURFACES<br>230584300921369395200.00 SURFACES<br>461168601842738790400.00 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SURFACES<br>2787593149816327892691964811102642912207673600.00 SURFACES<br>5575186299632655785383929622205285824415347200.00 SURFACES<br>11150372599265311570767859244410571648830694400.00 SURFACES<br>22300745198530623141535718488821143297661388800.00 SURFACES<br>44601490397061246283071436977642286595322777600.00 SURFACES<br>89202980794122492566142873955284573190645555200.00 SURFACES<br>178405961588244985132285747910569146381291110400.00 SURFACES<br>356811923176489970264571495821138292762582220800.00 SURFACES<br>713623846352979940529142991642276585525164441600.00 SURFACES<br>1427247692705959881058285983284553171050328883200.00 SURFACES<br>2854495385411919762116571966569106342100657766400.00 SURFACES<br>5708990770823839524233143933138212684213115532800.00 SURFACES<br>11417981541647679048466287866276451368426231065600.00 SURFACES<br>22835963083295358096932575732552902736852462131200.00 SURFACES<br>45671926166590716193865151465105805473704924262400.00 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3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH  
LATCH AND EJECT, 452 SERIES, TS2437



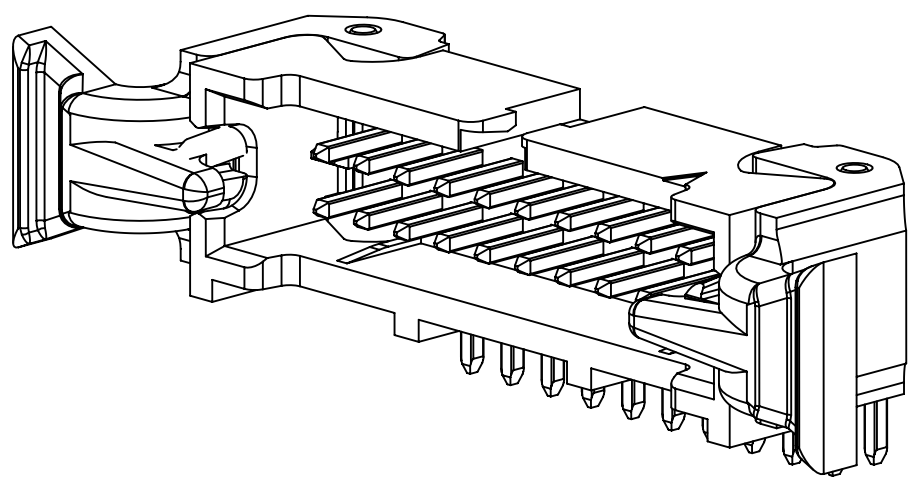
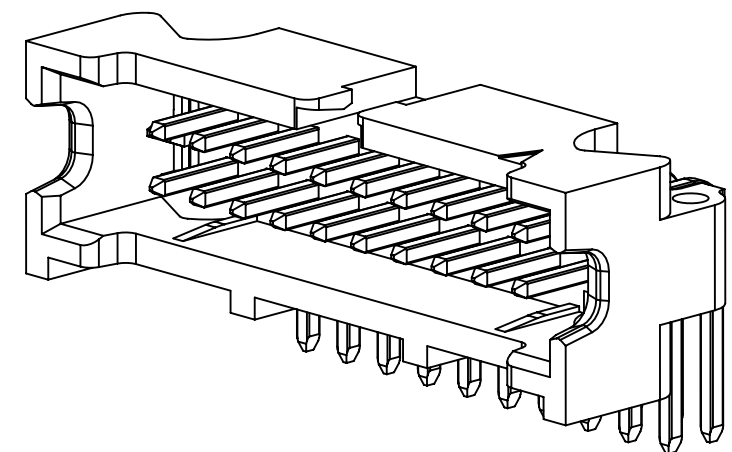
THRU BOARD, RIGHT ANGLE



RECOMMENDED BOARD LAYOUT

TABLE 1: RIGHT ANGLE THRU

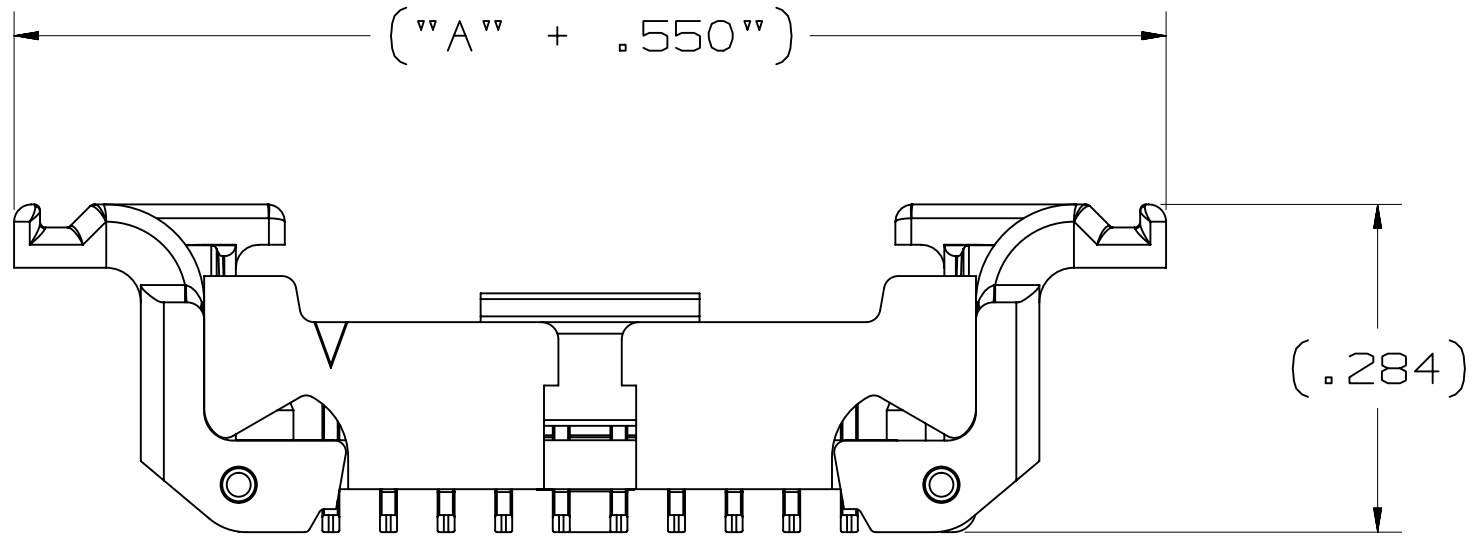
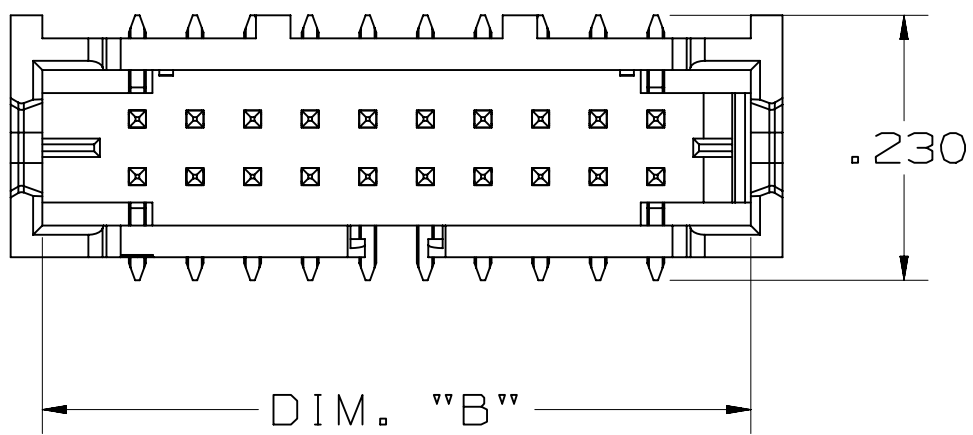
| No.<br>Positions | Dim<br>"A" | Dim<br>"B" | Dim<br>"C" |
|------------------|------------|------------|------------|
| 4                | .050       | .215       | .270       |
| 6                | .100       | .265       | .320       |
| 8                | .150       | .315       | .370       |
|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



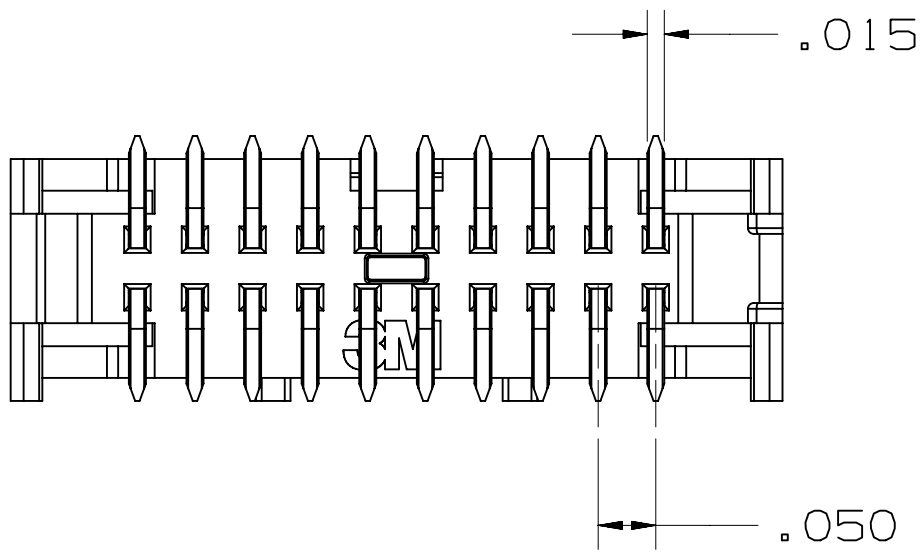
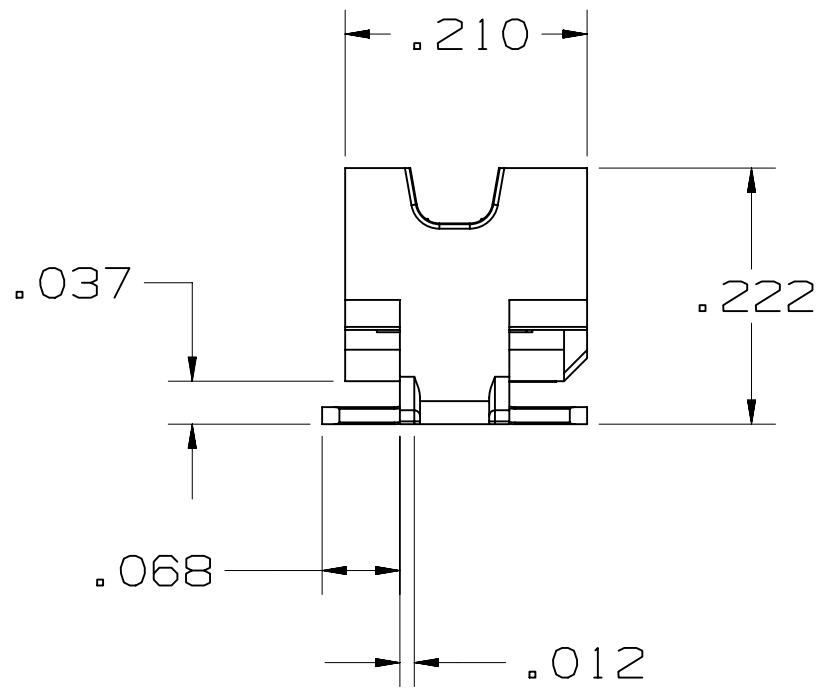
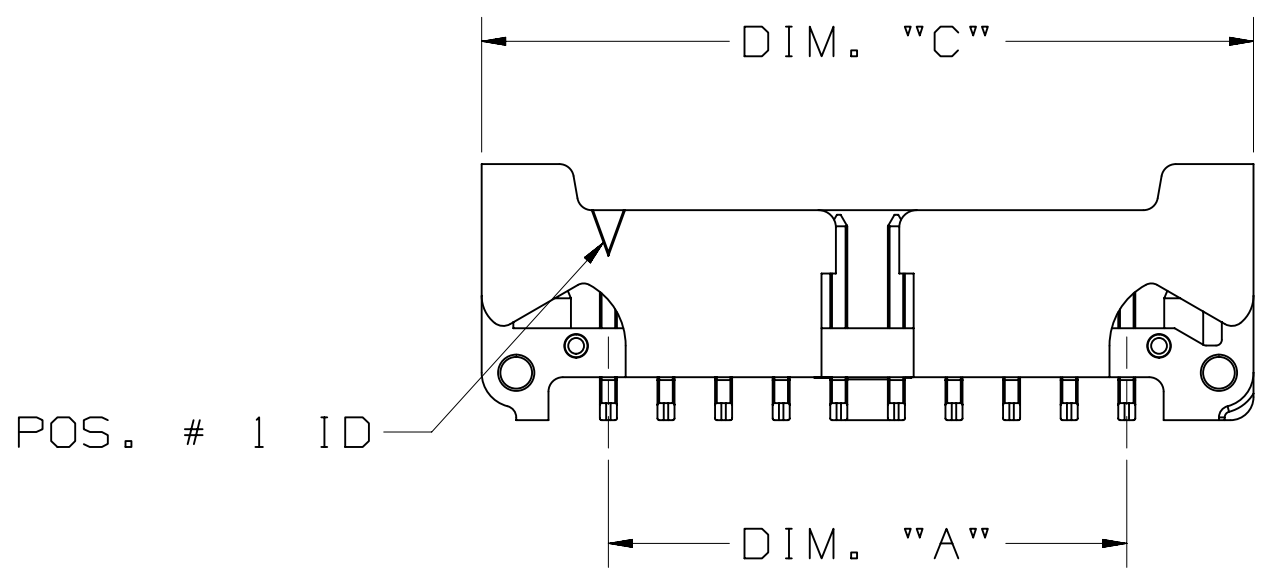
WITH LATCH/EJECT

|                                  |  |               |  |                                                     |              |                                                                                                                                                                                                                        |     |            |              |
|----------------------------------|--|---------------|--|-----------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|--------------|
| 78-5100-2436-3<br>78-5100-2396-9 |  | NEXT ASSEMBLY |  | REV                                                 | ECO          | PRODUCTION RELEASE                                                                                                                                                                                                     |     | DRFT       | CHKD         |
| DESIGN REFERENCE                 |  |               |  | DATE                                                | NOV 29, 2012 | MR                                                                                                                                                                                                                     | PRC | DATE       | NOV 29, 2012 |
| ADDRESS                          |  |               |  | DATE                                                | NOV 29, 2012 | APRVL                                                                                                                                                                                                                  | SAN | DATE       | NOV 29, 2012 |
| CODES                            |  |               |  | CHKD                                                | SAN          |                                                                                                                                                                                                                        |     | DATE       | NOV 29, 2012 |
| DIVISION                         |  | DIVISION CODE |  |                                                     |              |                                                                                                                                                                                                                        |     |            |              |
| Interconnect Solutions           |  | ISD           |  |                                                     |              |                                                                                                                                                                                                                        |     |            |              |
| DO NOT SCALE DRAWING             |  | SCALE 6 1     |  | TOLERANCES EXCEPT AS NOTED                          |              | © 3M COPYRIGHT 2014                                                                                                                                                                                                    |     |            |              |
| THIRD ANGLE PROJECTION           |  | INCHES        |  | 3M Center St. Paul, MN 55144                        |              | 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. |     |            |              |
| INTERPRET PER ASME Y14.5 - 2009  |  | MILLIMETERS   |  | TITLE                                               |              |                                                                                                                                                                                                                        |     |            |              |
| MAX SURFACE ROUGHNESS            |  | SURFACES      |  | BOARDMOUNT HEADER, .05 X .05 PITCH, L/E, 452 SERIES |              |                                                                                                                                                                                                                        |     |            |              |
| MARKED ONLY                      |  | ANGLES        |  | CAGE NUMBER                                         |              | DRAWING NO.                                                                                                                                                                                                            |     | REV.       |              |
|                                  |  |               |  | D                                                   |              | 78-5100-2437-1                                                                                                                                                                                                         |     | E          |              |
|                                  |  |               |  | MODEL                                               |              | DET                                                                                                                                                                                                                    |     | SHT 2 OF 4 |              |

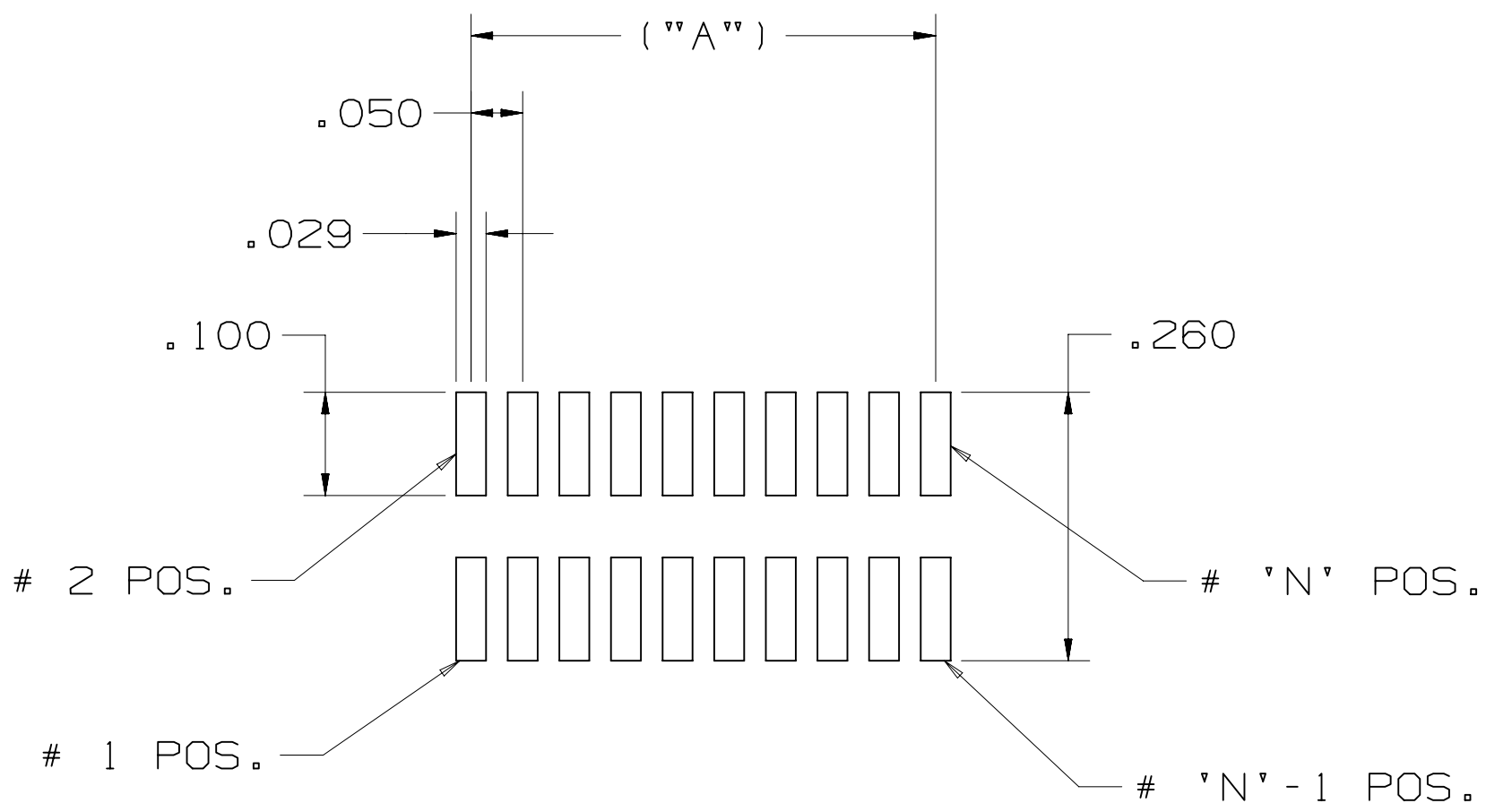
3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH  
LATCH AND EJECT, 452 SERIES, TS2437



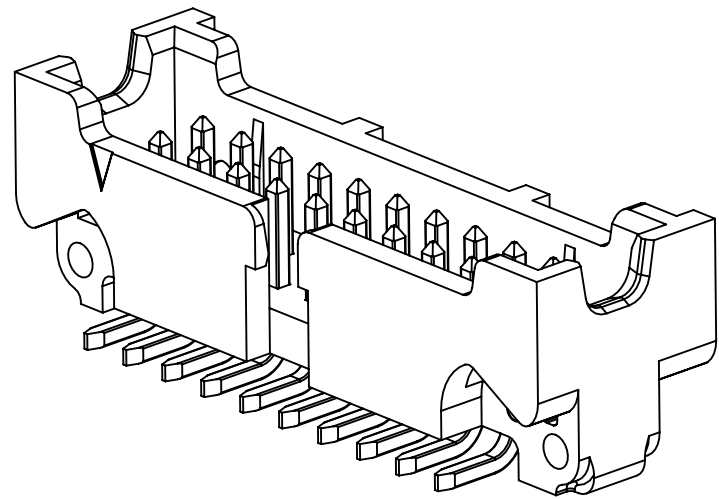
| TABLE 1: VERTICAL SMT |         |         |         |
|-----------------------|---------|---------|---------|
| No. Positions         | Dim "A" | Dim "B" | Dim "C" |
| 4                     | .050    | .215    | .270    |
| 6                     | .100    | .265    | .320    |
| 8                     | .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    |



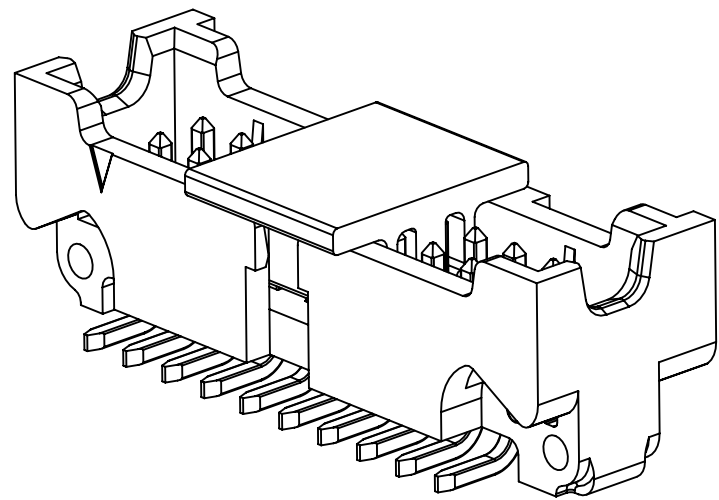
SURFACE MOUNT, VERTICAL



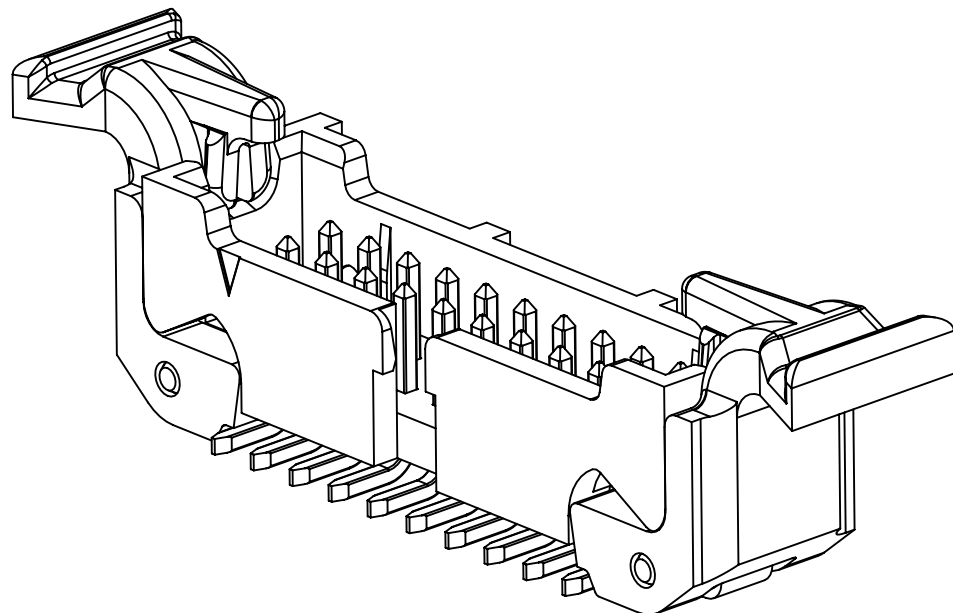
RECOMMENDED BOARD LAYOUT



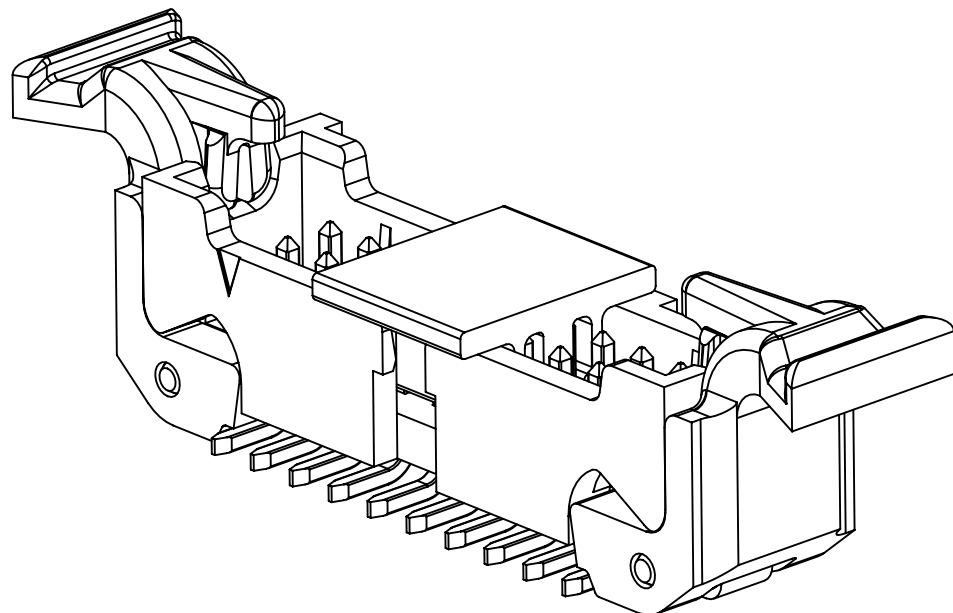
SHROUDED SMT HEADER



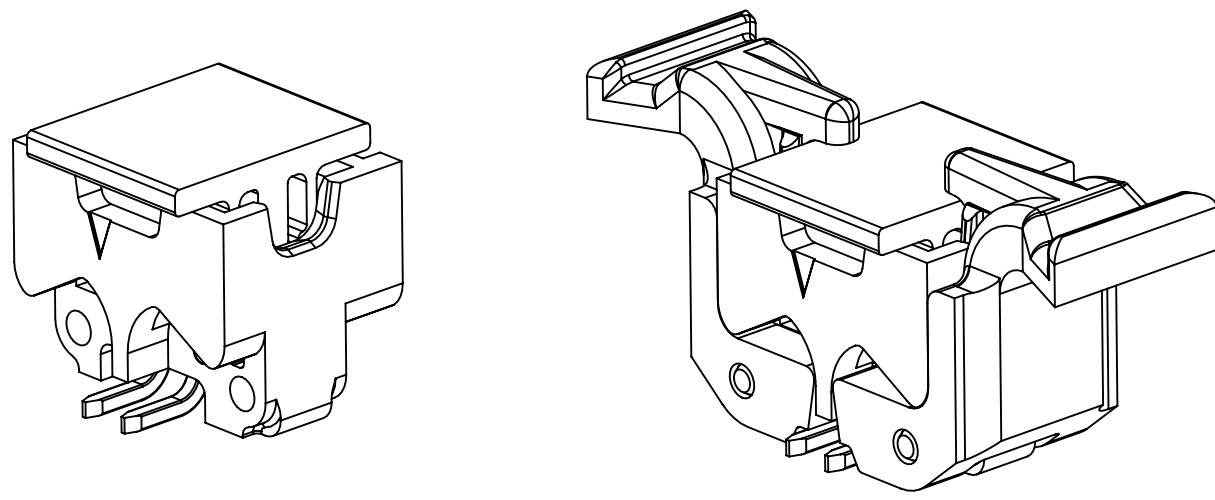
WITH VACUUM CAP



WITH LATCH/EJECT



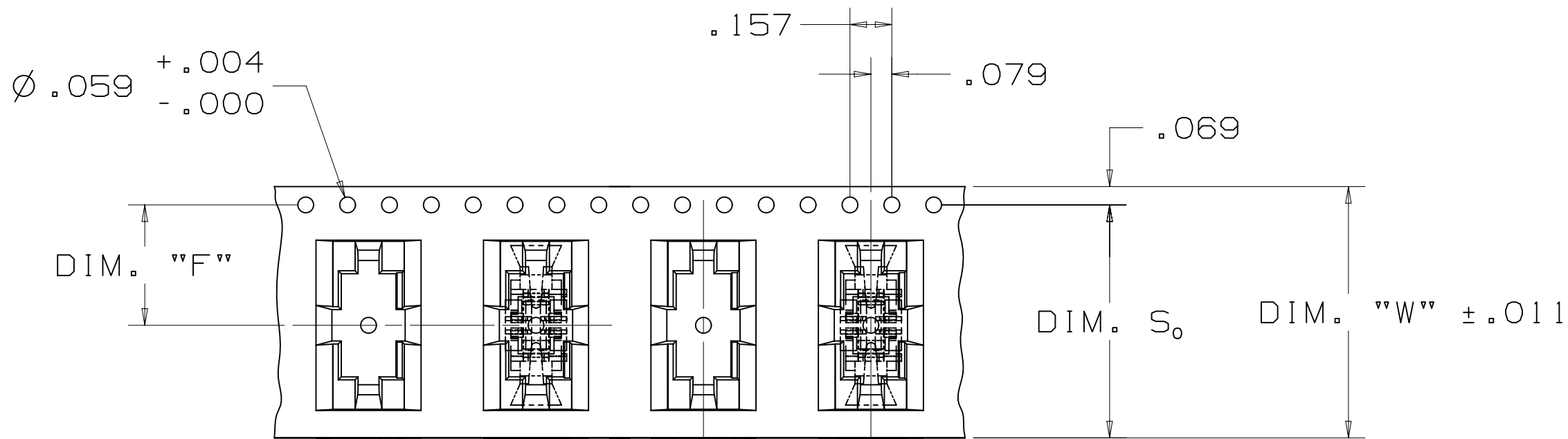
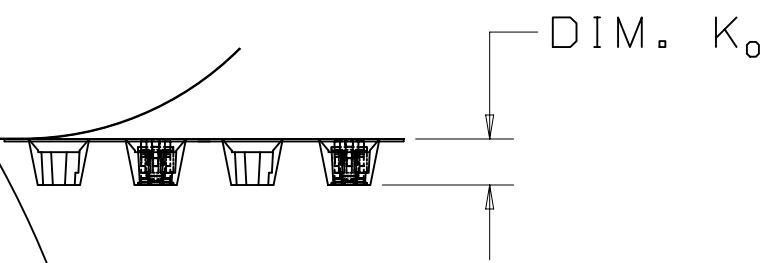
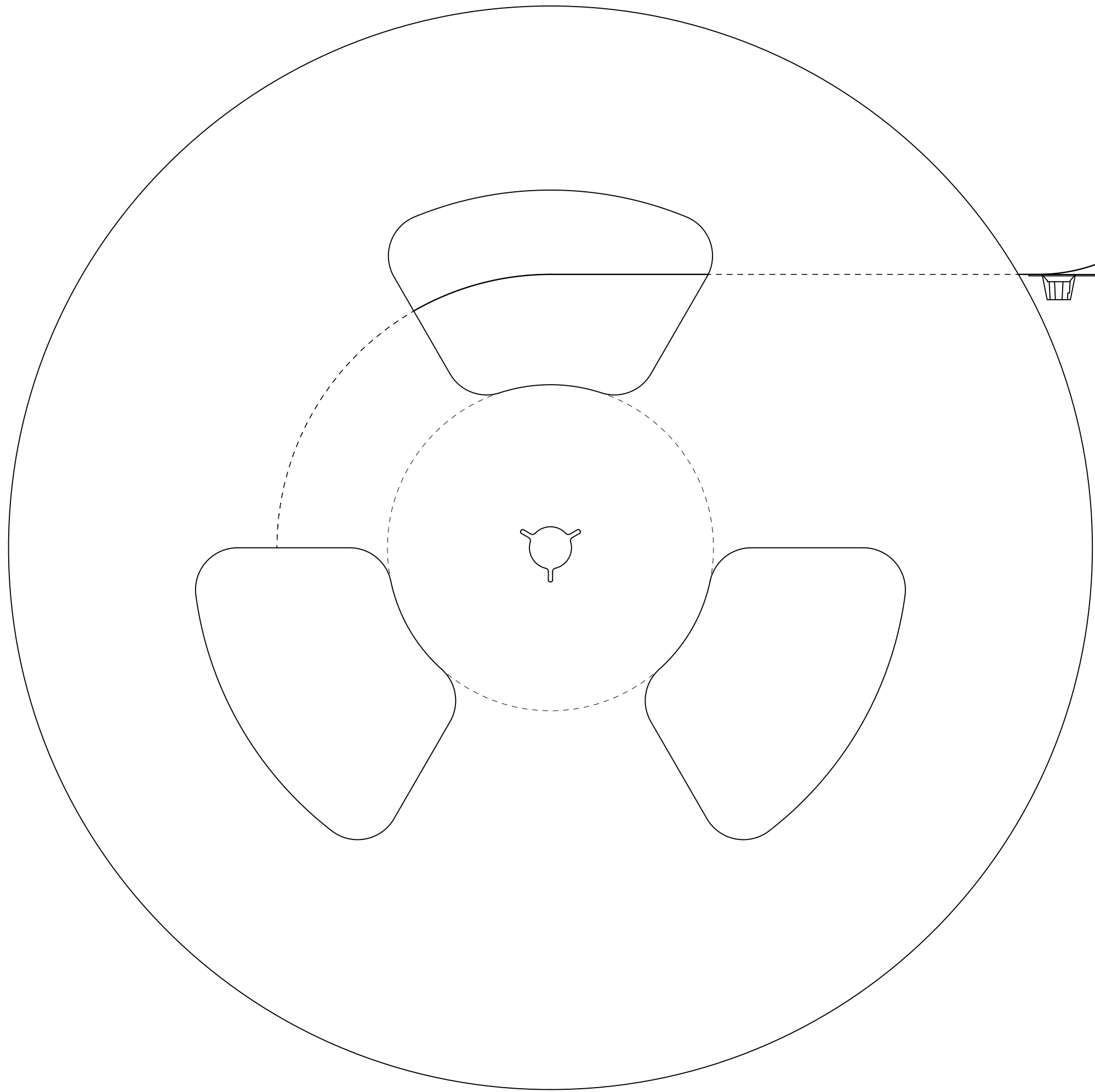
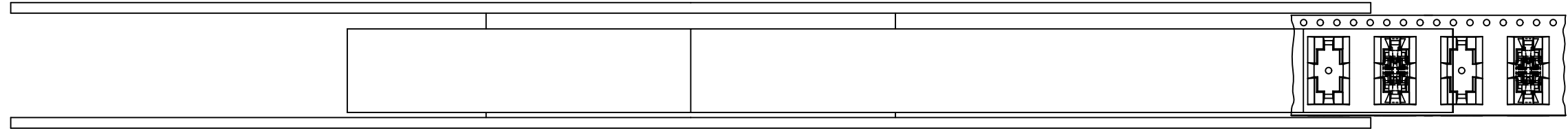
WITH LATCH/EJECT  
AND VACUUM CAP  
VACUUM CAP IS FULLY SEATED  
ON POSITIONS 8 THRU 30



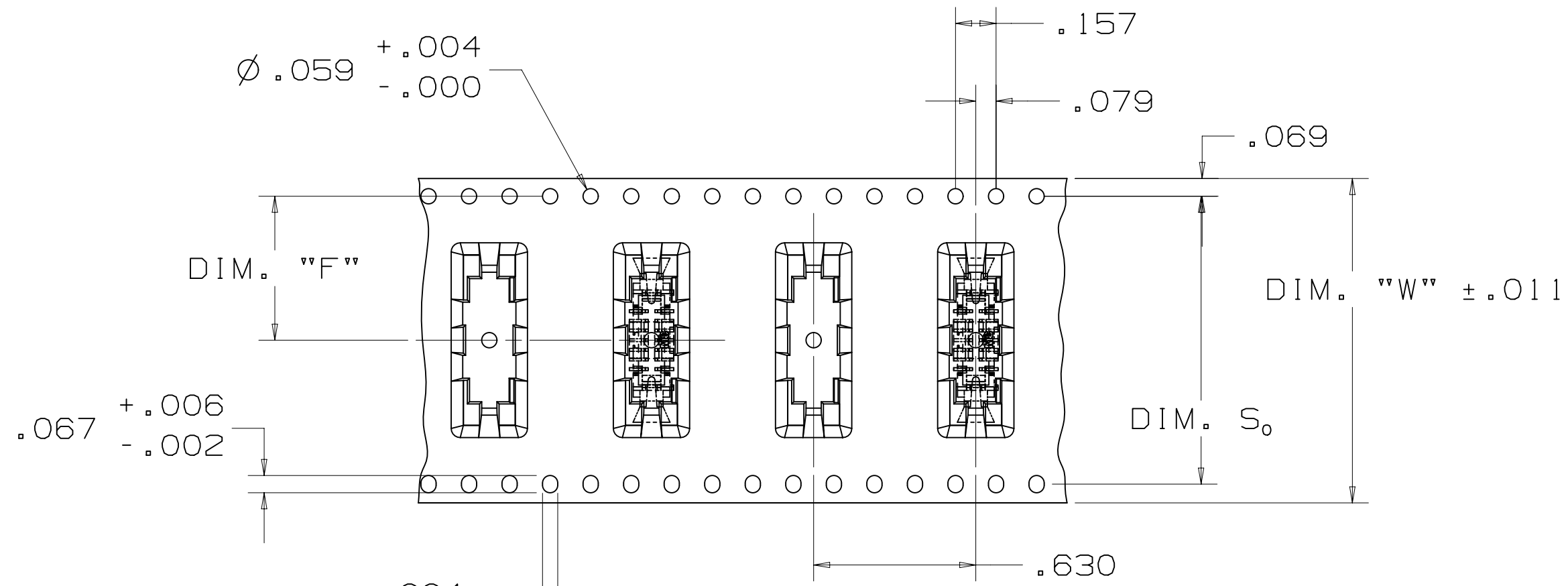
VACUUM CAP SEATED ON TOP  
EDGES OF END WALLS ON  
POSITIONS 4 AND 6

|                                                         |  |                                                       |  |                                                                    |     |                                                                                                                                                                                                                                               |  |      |             |
|---------------------------------------------------------|--|-------------------------------------------------------|--|--------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|-------------|
| 78-5100-2436-3<br>78-5100-2396-9                        |  | NEXT ASSEMBLY                                         |  | REV                                                                | ECO | PRODUCTION RELEASE                                                                                                                                                                                                                            |  | DRFT | CHKD        |
| DESIGN REFERENCE                                        |  |                                                       |  | DRFT                                                               | ARM | NOV 29,2012 PRC                                                                                                                                                                                                                               |  | DATE | NOV 29,2012 |
| DESIGN CODES                                            |  |                                                       |  | CHKD                                                               | SAN | NOV 29,2012 SAN                                                                                                                                                                                                                               |  | DATE | NOV 29,2012 |
| DIVISION<br>Interconnect Solutions                      |  | DIVISION CODE<br>ISD                                  |  | 3M Center<br>St. Paul,<br>MN 55144                                 |     | © 3M COPYRIGHT 2014<br>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. |  |      |             |
| DO NOT SCALE DRAWING                                    |  | SCALE<br>6<br>1                                       |  | TOLERANCES EXCEPT AS NOTED                                         |     | <b>3M</b>                                                                                                                                                                                                                                     |  |      |             |
| THIRD ANGLE PROJECTION                                  |  | INCHES<br>±.1<br>±.02<br>±.000 ±.010<br>±.0000 ±.0050 |  |                                                                    |     |                                                                                                                                                                                                                                               |  |      |             |
| INTERPRET PER ASME Y14.5 - 2009                         |  | MILLIMETERS<br>0 ±<br>0 ±<br>0 ±<br>0 ±               |  | TITLE<br>BOARDMOUNT HEADER,<br>.05 X .05 PITCH, L/E,<br>452 SERIES |     |                                                                                                                                                                                                                                               |  |      |             |
| MAX SURFACE ROUGHNESS<br>12.5 SURFACES<br>✓ MARKED ONLY |  | CAGE NUMBER<br>D78-5100-2437-1                        |  | SIZE                                                               | 8   | DRAWING NO.                                                                                                                                                                                                                                   |  | REV. | E           |
|                                                         |  | MODEL                                                 |  | DET                                                                | 1   | YES X NO                                                                                                                                                                                                                                      |  | SHT  | 3 OF 4      |

3M™ SHROUDED BOARDMOUNT HEADER, 1.27mm (0.050") PITCH  
LATCH AND EJECT, 452 SERIES, TS2437



24MM WIDE POCKET TAPE



32MM, 44MM AND 56MM WIDE POCKET TAPE

TABLE 2  
TAPE AND REEL PACKAGING FOR SURFACEMOUNT HEADERS

| POS | LATCHES | DIM. "F" | DIM. K <sub>0</sub> | DIM. S <sub>0</sub> | DIM. "W"       |
|-----|---------|----------|---------------------|---------------------|----------------|
| 4   | NO      | .453     | .263                | .876                | .945 [ 24MM ]  |
| 4   | YES     | .453     | .300                | .876                | 1.260 [ 32MM ] |
| 6   | NO      | .453     | .238                | .876                | .945 [ 24MM ]  |
| 6   | YES     | .559     | .300                | 1.118               | 1.260 [ 32MM ] |
| 8   | NO      | .453     | .238                | .876                | .945 [ 24MM ]  |
| 8   | YES     | .559     | .300                | 1.118               | 1.732 [ 44MM ] |
| 10  | NO      | .453     | .238                | .876                | .945 [ 24MM ]  |
| 10  | YES     | .559     | .300                | 1.118               | 1.732 [ 44MM ] |
| 12  | NO      | .453     | .238                | .876                | .945 [ 24MM ]  |
| 12  | YES     | .559     | .300                | 1.118               | 1.732 [ 44MM ] |
| 14  | NO      | .453     | .238                | .876                | .945 [ 24MM ]  |
| 14  | YES     | .795     | .300                | 1.591               | 1.732 [ 44MM ] |
| 16  | NO      | .453     | .238                | .876                | .945 [ 24MM ]  |
| 16  | YES     | .795     | .300                | 1.591               | 1.732 [ 44MM ] |
| 20  | NO      | .559     | .238                | 1.118               | 1.260 [ 32MM ] |
| 20  | YES     | .795     | .300                | 1.591               | 1.732 [ 44MM ] |
| 30  | NO      | .795     | .238                | 1.591               | 1.732 [ 44MM ] |
| 30  | YES     | .795     | .300                | 1.591               | 2.205 [ 56MM ] |

|                                  |         |                            |              |
|----------------------------------|---------|----------------------------|--------------|
| 78-5100-2436-3<br>78-5100-2396-9 |         | NEXT ASSEMBLY              |              |
| DESIGN REFERENCE                 | ARM     | DATE                       | NOV 29, 2012 |
| DRIVER CODES                     | ARM     | DATE                       | NOV 29, 2012 |
| DIVISION CODE                    |         | DIVISION CODE              |              |
| Interconnect Solutions           |         | ISD                        |              |
| DO NOT SCALE DRAWING             | SCALE 1 | TOLERANCES EXCEPT AS NOTED |              |
| THIRD ANGLE PROJECTION           |         | INCHES                     |              |
| INTERPRET PER ASME Y14.5 - 2009  |         | MILLIMETERS                |              |
| MAX SURFACE ROUGHNESS            |         | CAGE NUMBER                |              |
| SURFACES                         |         | DRAWING NO.                |              |
| MARKED ONLY                      |         | MODEL                      |              |

|                                 |              |                                                    |              |      |
|---------------------------------|--------------|----------------------------------------------------|--------------|------|
| E                               | 54514        | JUN 19, 2014<br>ADD UL LOGO, ADD 56MM T&R          | SJS          | SAN  |
| D                               | 51884        | JAN 08, 2014<br>ADD DESIGN REF, UPDATE TITLE,      | SJS          | SAN  |
| C                               | 50290        | OCT 08, 2013<br>REVISE NOTE 1, 9 & OPERATING TEMP. | JNC          | SN   |
| B                               | 48635        | JUL 12, 2013<br>MATCH TEXT FONTS & ADD NOTE 9      | JNC          | SN   |
| A                               | 46797        | MAR 25, 2013<br>PRODUCTION RELEASE                 | 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 |      |
| DIVISION CODE                   |              | DIVISION CODE                                      |              |      |
| Interconnect Solutions          |              | ISD                                                |              |      |
| DO NOT SCALE DRAWING            |              | TOLERANCES EXCEPT AS NOTED                         |              |      |
| THIRD ANGLE PROJECTION          |              | INCHES                                             |              |      |
| INTERPRET PER ASME Y14.5 - 2009 |              | MILLIMETERS                                        |              |      |
| MAX SURFACE ROUGHNESS           |              | CAGE NUMBER                                        |              |      |
| SURFACES                        |              | DRAWING NO.                                        |              |      |
| MARKED ONLY                     |              | MODEL                                              |              |      |

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

|             |                |      |    |
|-------------|----------------|------|----|
| CAGE NUMBER | 78-5100-2437-1 | REV. | E  |
| DET         | LISTS          | YES  | NO |
| SHT         | 4              | OF   | 4  |