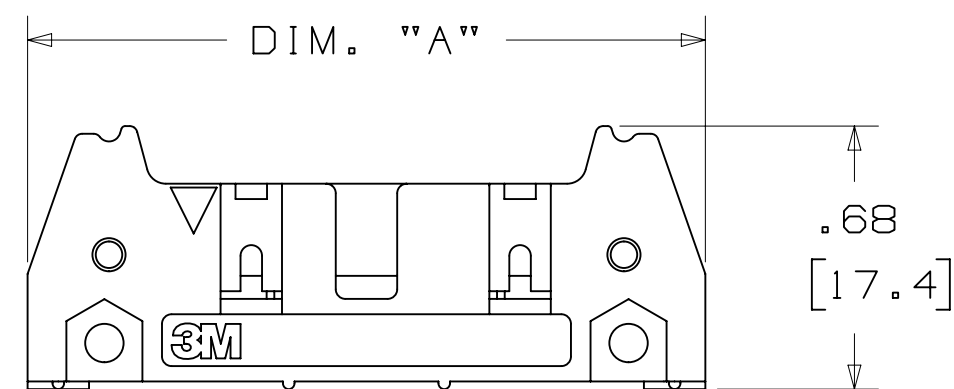
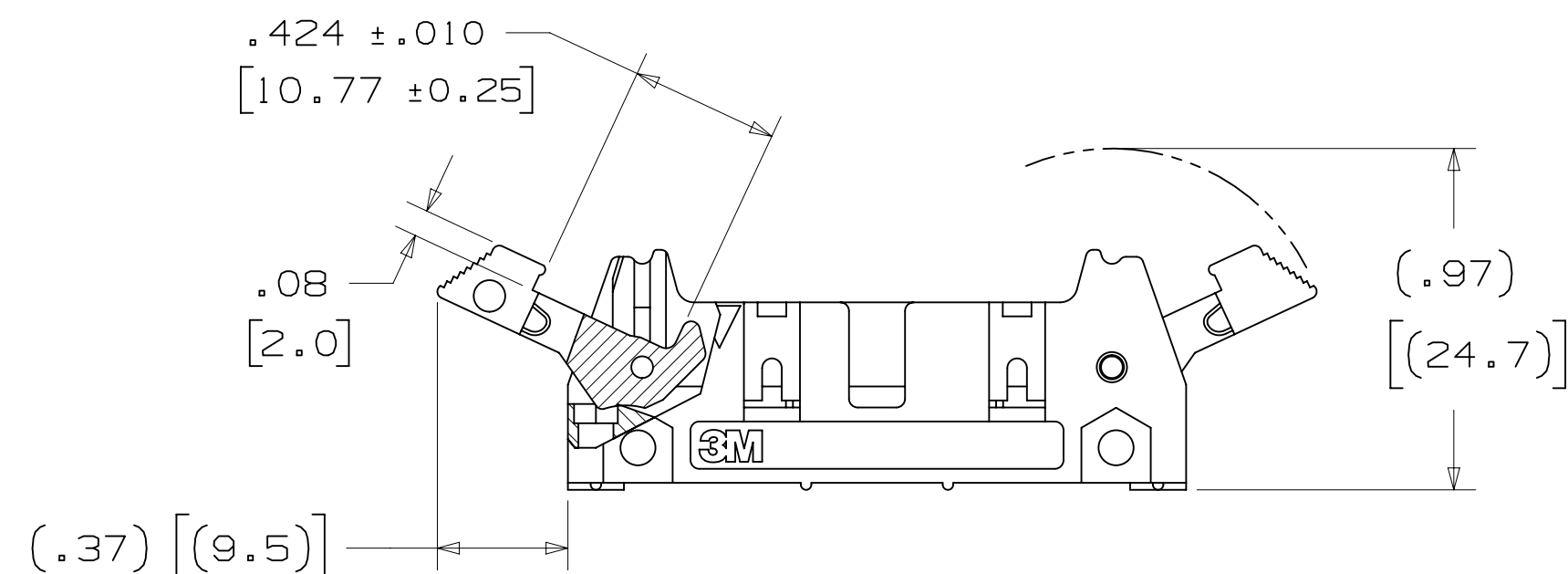


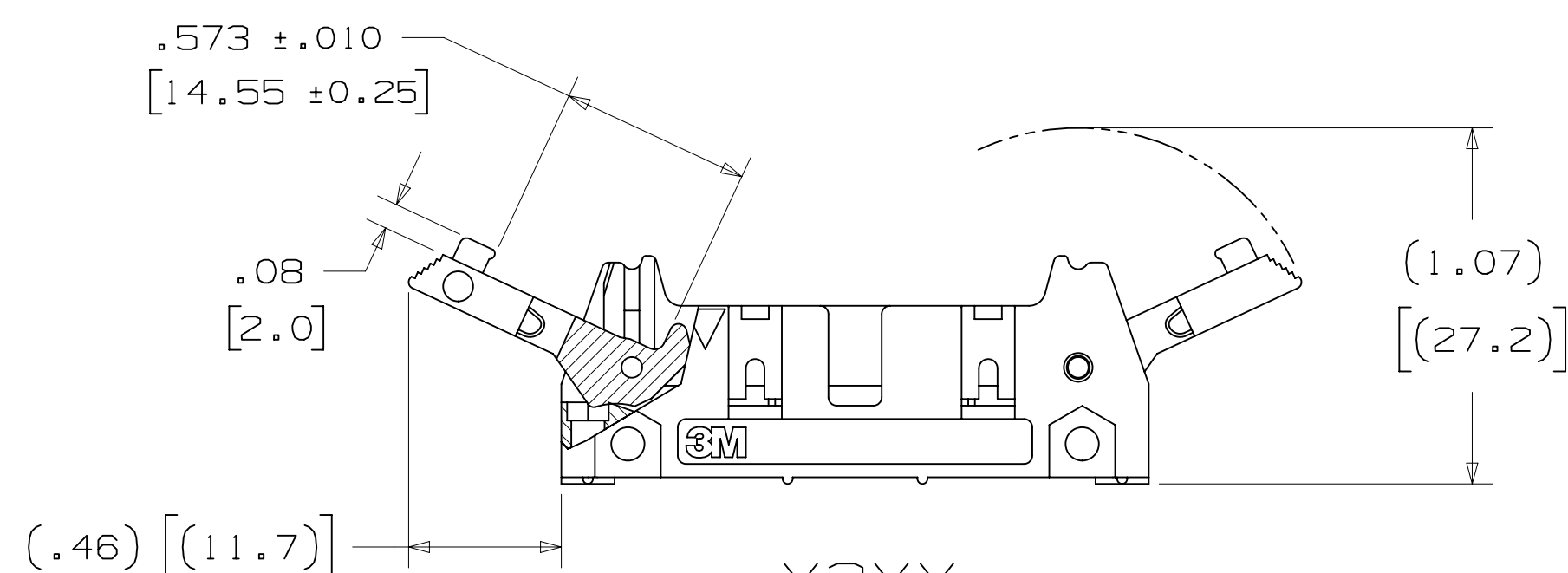
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



-X0XX  
HEADER WITHOUT LATCH EJECTOR



-X2XX  
HEADER WITH SHORT LATCH EJECTOR  
FOR 3M SOCKETS WITHOUT STRAIN RELIEF



-X3XX  
HEADER WITH LONG LATCH EJECTOR  
FOR 3M SOCKETS WITH STRAIN RELIEF

X3XXX-XXXXXX

3M PART NUMBER:  
(SEE TABLE 1)

PLATING:

RB = 30μ" [ 0.76μm ] GOLD AND 200μ" [ 5.08μm ] MATTE TIN  
(APP. E1 & C1 APPLY)

UB = 30μ" [ 0.76μm ] GOLD AND 200μ" [ 5.08μm ]  
TIN LEAD (APP. E3 & C2 APPLY)

```

-TAIL:
O2 = FOR .062 [1.57] THICK BOARD
O3 = FOR .094 TO .125 [2.39 TO 3.18] THICK BOARD
K2 = KINKED FOR .062 [1.57] THICK BOARD

```

LATCH/EJECTOR SYSTEM:  
0 = NO LATCH/EJECTOR INSTALLED  
2 = SHORT ROLL PIN LATCH/EJECTORS  
3 = LONG ROLL PIN LATCH/EJECTORS

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INFORMATION CALL 800-225-5373

- \* MILITARY (WITH 3M'S N3518 POLARIZING KEY) AND CENTERBUMP POLARIZATION.
- \* OPTIONAL EJECTOR LATCHES.
- \* MOUNTING HOLES FOR SECURING HEADER TO BOARD.
- \* OPTIONAL POLARIZING POSTS AVAILABLE.
- \* HIGH TEMPERATURE INSULATOR SUITABLE FOR "NO LEAD" SOLDERING OPERATIONS.
- \* SUITABLE FOR REFLOW SOLDERING USING "PASTE IN HOLE" TECHNIQUES.
- \* SOLDER TAIL OPTION.

2 PHYSICAL :

```

INSULATOR:
  MATERIAL: GLASS FILLED POLYESTER (PCT)
FLAMMABILITY: UL94V-0
  COLOR: BLACK
  CONTACT:
    MATERIAL: COPPER ALLOY
    PLATING:
      UNDER PLATING: 100μ" [ 2.54μm ] NICKEL-OVERALL
      WIPING AREA: 30μ" [ 0.76μm ] AVG. GOLD
      SOLDER TAILS: TIN LEAD OR MATTE TIN (SEE ORDERING INFORMATION)
      MARKINGS: 3M LOGO, PART IDENTIFICATION NUMBER AND ORIENTATION TRIANGLE

```

2 ELECTRICAL :

CURRENT RATING: 5.00A, 1 CONTACT POWERED  
3.00A, 6 CONTACTS POWERED  
1.75A, ALL CONTACTS POWERED  
RATING CONDITIONS: EIA-364-070 METHOD 2, 30°C MAXIMUM  
TEMPERATURE RISE, 20% DERATED. REFERENCE APPROPRIATE  
3M PRODUCT SPECIFICATION FOR DETAILED CURRENT DERATING  
CURVES.  
INSULATION RESISTANCE:  $>1 \times 10^9 \Omega$  AT 500 V<sub>DC</sub>  
WITHSTANDING VOLTAGE: 1,000V<sub>RMS</sub> AT SEA LEVEL

## 2 ENVIRONMENTAL :

TEMPERATURE RATING: -55°C TO 105°C  
PROCESS RATING: 260°C, PER J-STD-020C, SINGLE PASS  
MOISTURE SENSITIVITY LEVEL: 1 (PER J-STD-020C)

DIMENSIONS: INCHES [ MM ]  
[ MM ] IS REF. ONLY

|                                        |  |                            |  |                                    |      |                                                                                                                                                                                                                        |      |      |      |
|----------------------------------------|--|----------------------------|--|------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|
| DESIGN REFERENCE                       |  | NEXT ASSEMBLY              |  | REV                                | ECO  | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                             |      | DRFT | CHKD |
| ADDRESS                                |  | CODE                       |  | DRFT                               | DATE |                                                                                                                                                                                                                        | MFG  | DATE |      |
| <del>ADDRESS</del>                     |  | <del>CODE</del>            |  | CHKD                               | DATE |                                                                                                                                                                                                                        | ASPL | DATE |      |
| DIVISION                               |  | DIVISION CODE              |  | R. SCHERER                         |      | SEP 05, 2014                                                                                                                                                                                                           |      |      |      |
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| SCALE<br>$\frac{2}{1}$                 |  | INCHES                     |  | TITLE                              |      | HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA                                                                                                                                                               |      |      |      |
|                                        |  | THIRD ANGLE PROJECTION     |  | CAGE NUMBER                        |      | DRAWING NO.                                                                                                                                                                                                            |      |      |      |
| INTERPRET PER<br>ASME Y14.5 - 2009     |  | MILLIMETERS                |  | SIZE                               |      | D78-5100-0772-3                                                                                                                                                                                                        |      |      |      |
| MAX. SURFACE ROUGHNESS                 |  | .00 ± .13                  |  | MODEL                              |      | 3000 SERIES                                                                                                                                                                                                            |      |      |      |
| MAX. SURFACES                          |  | .00 ± .3                   |  | DET.                               |      | YES YES YES NO SHT 1 OF                                                                                                                                                                                                |      |      |      |
| ✓ <input type="checkbox"/> MARKED ONLY |  | .000 ±                     |  | LISTS                              |      | YES YES YES NO SHT 1 OF                                                                                                                                                                                                |      |      |      |
| <del>MAX. SURFACE ROUGHNESS</del>      |  | <del>ANGLES</del>          |  |                                    |      |                                                                                                                                                                                                                        |      |      |      |

**UL**<sup>®</sup>  
**US**  
UL FILE NO: E68080

1. REGULATORY INFORMATION:  
ROHS COMPLIANT. SEE THE  
REGULATORY INFORMATION  
APPENDIX (RIA) IN THE  
"ROHS COMPLIANCE" SECTION  
OF [WWW.3MCONNECTORS.COM](http://WWW.3MCONNECTORS.COM) FOR  
COMPLIANCE INFORMATION.

2 IN THE EVENT OF CONFLICT  
BETWEEN THIS DATA AND THAT  
CONTAINED IN THE PRODUCT  
SPECIFICATION, THE PRODUCT  
SPECIFICATION TAKES PRECEDENT

3 NOTCHES A & C WILL ACCOMODATE  
3M POLARIZING KEY: N3518.

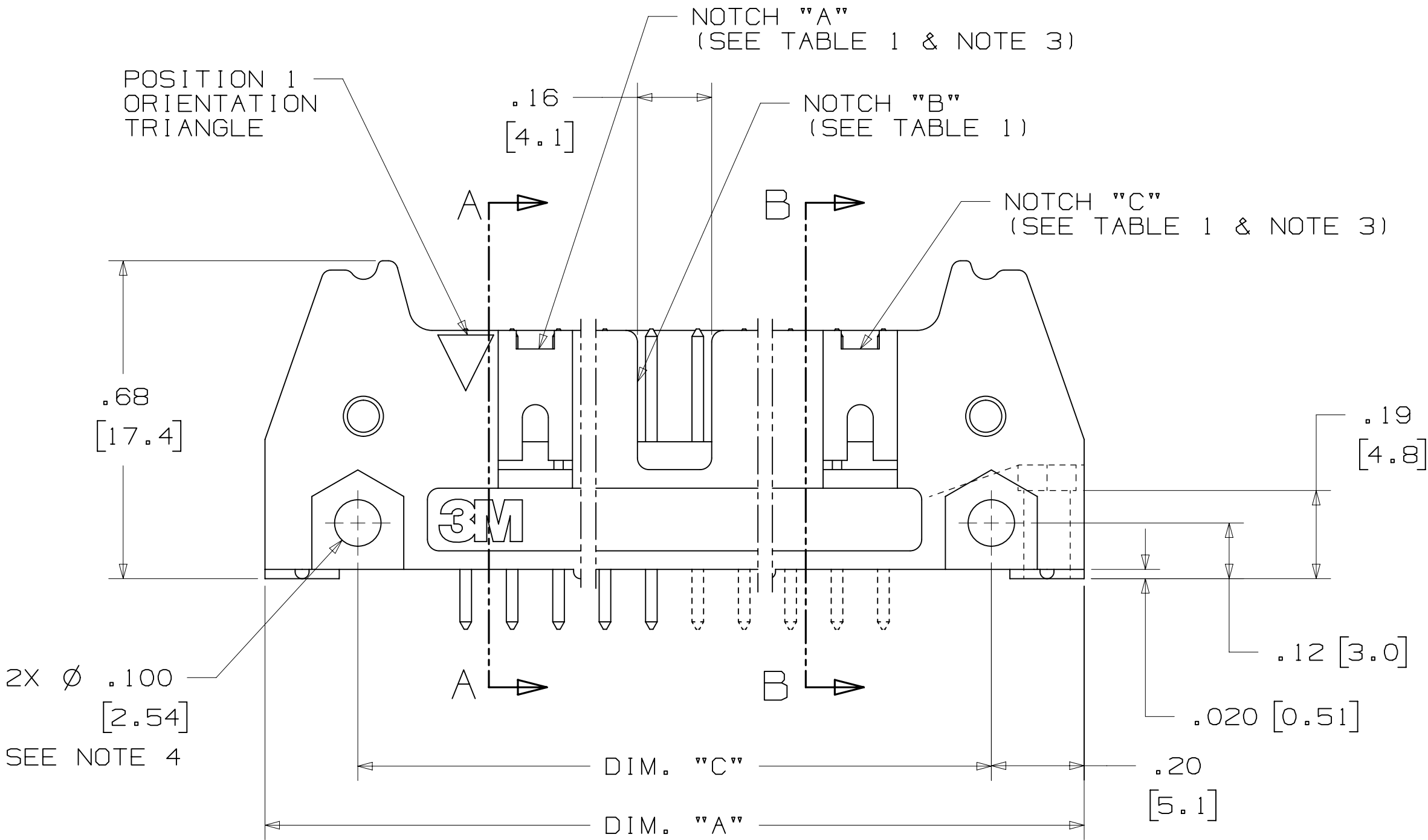
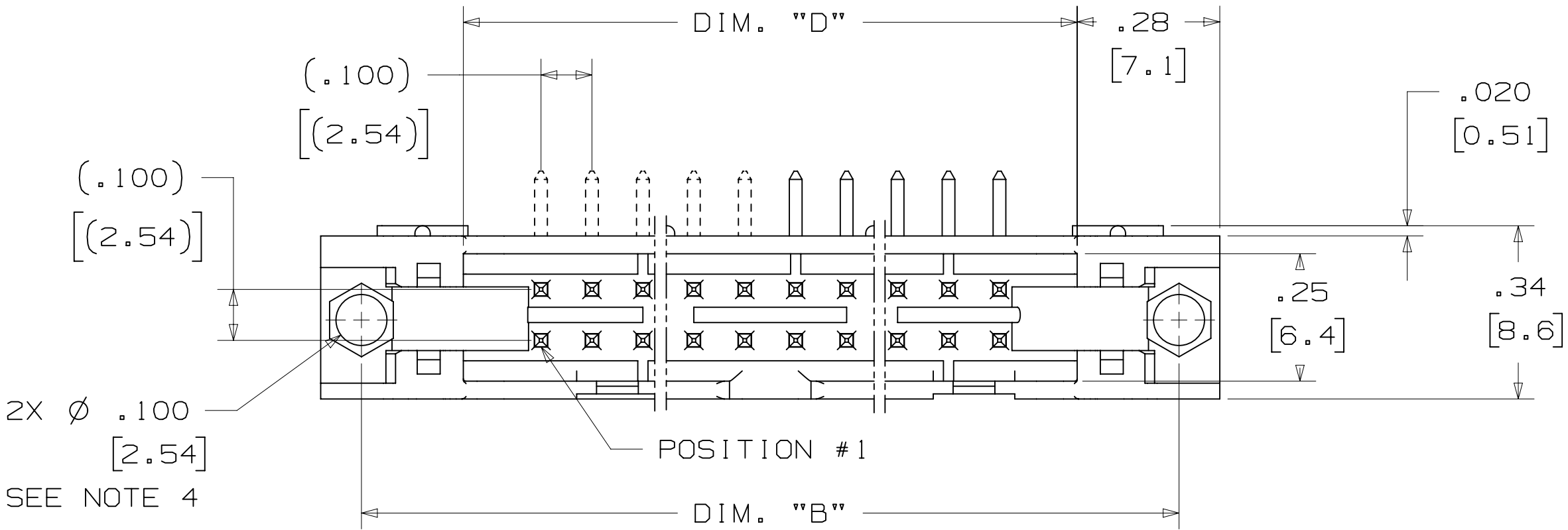
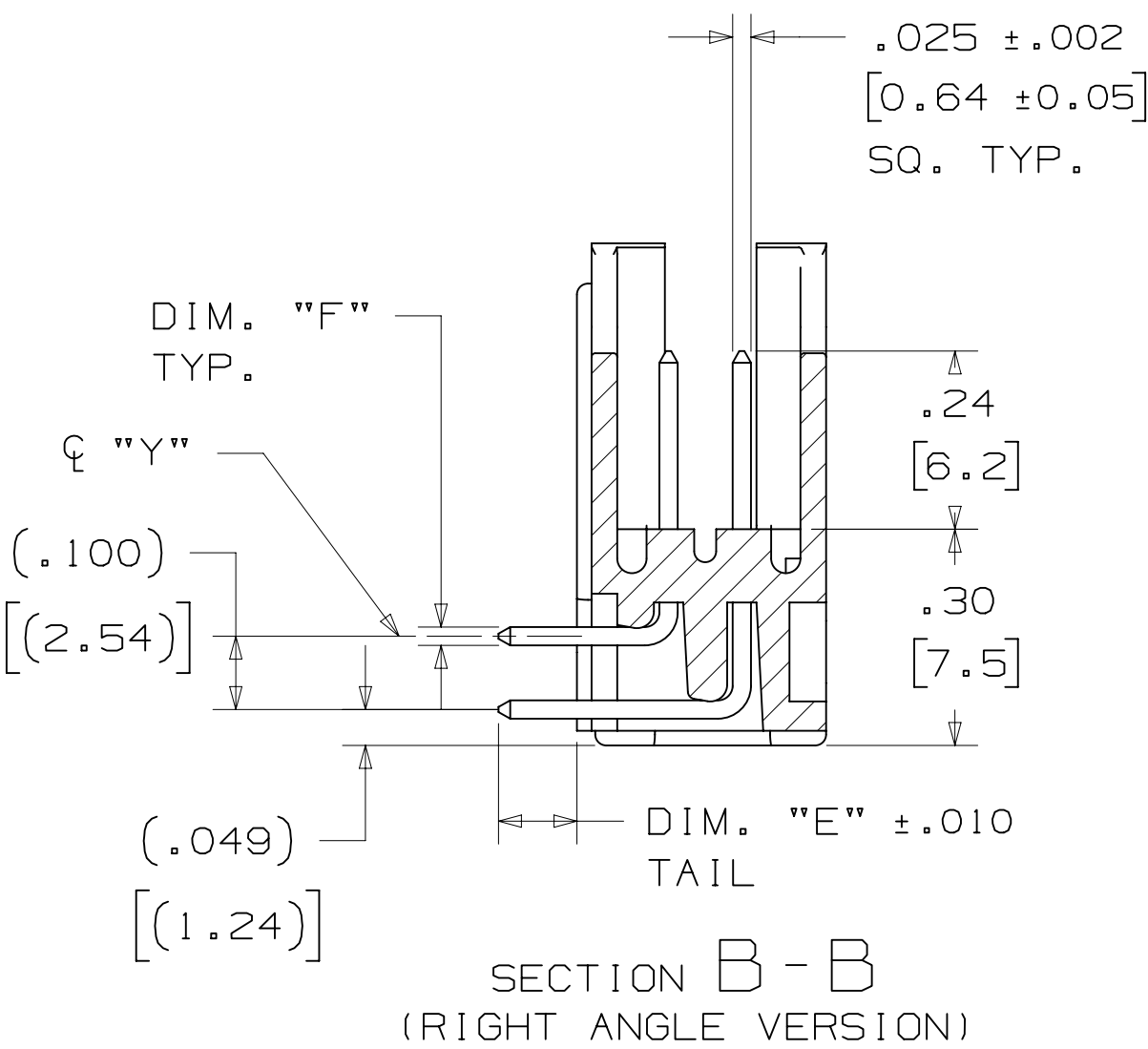
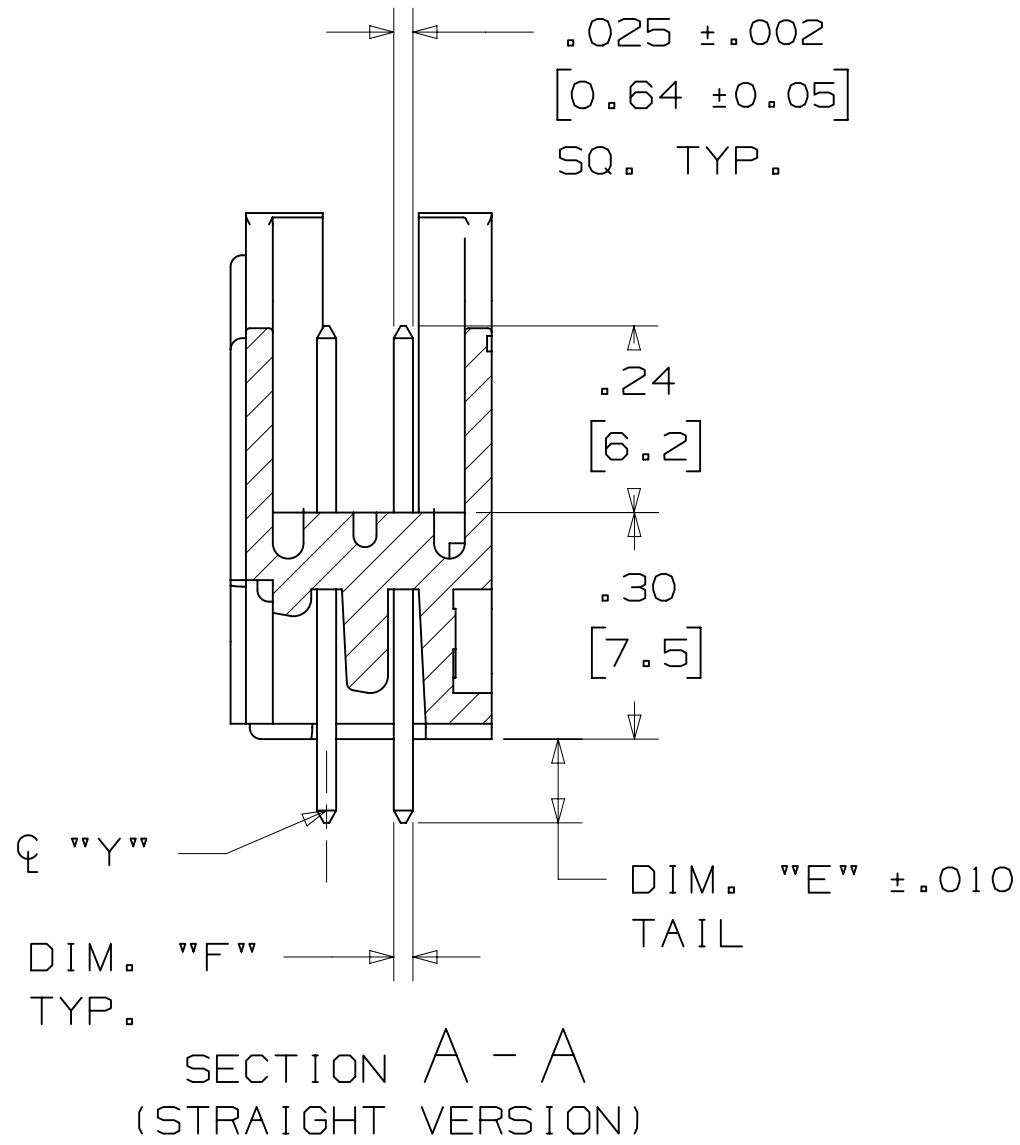
4 MOUNTING HARDWARE:  
FROM SOLDER SIDE OF PC BOARD  
USE #4-24 THREAD CUTTING SCREW  
(3M PART #3341-5) WITH  
Ø.116 [2.95] MOUNTING HOLE.  
FOR RIGHT ANGLE VERSION ONLY:  
#2-56 BOLT AND NUT (3M PART  
#3341-6) WITH Ø.106 [2.69]  
MOUNTING HOLE MAY BE USED.

5 THE RECOMMENDED PCB HOLE SIZE  
FOR THE KINKED TAIL POSITIONS  
ON THE .112 SOLDER TAIL  
CONNECTOR IS  $\varnothing .035 \pm .002$ .  
(SEE K2 VERSION).

A

3M™ FOUR-WALL HEADER, 3000 SERIES

.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



| TABLE 1  |                |                |                 |                 |               |                    |          |
|----------|----------------|----------------|-----------------|-----------------|---------------|--------------------|----------|
| PIN QTY. | 3M PART NUMBER | DIM. "A"       | DIM. "B"        | DIM. "C"        | DIM. "D"      | POLARIZING NOTCHES | PIN QTY. |
| 06       | 3869           | 1.06 [ 27.0 ]  | .905 [ 22.99 ]  | .665 [ 16.89 ]  | .51 [ 12.9 ]  | B*                 | 06       |
| 08       | 3889           | 1.16 [ 29.5 ]  | 1.005 [ 25.53 ] | .765 [ 19.43 ]  | .61 [ 15.5 ]  | B*                 | 08       |
| 10       | 3793           | 1.26 [ 32.1 ]  | 1.105 [ 28.04 ] | .865 [ 21.97 ]  | .71 [ 18.0 ]  | BC                 | 10       |
| 14       | 3314           | 1.46 [ 37.2 ]  | 1.305 [ 33.12 ] | 1.065 [ 27.05 ] | .91 [ 23.1 ]  | BC                 | 14       |
| 16       | 3408           | 1.56 [ 39.7 ]  | 1.405 [ 35.66 ] | 1.165 [ 29.59 ] | 1.01 [ 25.6 ] | ABC                | 16       |
| 20       | 3428           | 1.76 [ 44.8 ]  | 1.604 [ 40.74 ] | 1.365 [ 34.67 ] | 1.21 [ 30.7 ] | ABC                | 20       |
| 24       | 3627           | 1.96 [ 49.9 ]  | 1.805 [ 45.82 ] | 1.565 [ 39.75 ] | 1.41 [ 35.8 ] | ABC                | 24       |
| 26       | 3429           | 2.06 [ 52.4 ]  | 1.905 [ 48.36 ] | 1.665 [ 42.29 ] | 1.51 [ 38.3 ] | ABC                | 26       |
| 30       | 3440           | 2.26 [ 57.5 ]  | 2.105 [ 53.44 ] | 1.865 [ 47.37 ] | 1.71 [ 43.4 ] | ABC                | 30       |
| 34       | 3431           | 2.46 [ 62.6 ]  | 2.305 [ 58.52 ] | 2.065 [ 52.45 ] | 1.91 [ 48.5 ] | ABC                | 34       |
| 40       | 3432           | 2.76 [ 70.2 ]  | 2.605 [ 66.14 ] | 2.365 [ 60.07 ] | 2.21 [ 56.1 ] | ABC                | 40       |
| 50       | 3433           | 3.26 [ 82.9 ]  | 3.105 [ 78.84 ] | 2.865 [ 72.77 ] | 2.71 [ 68.8 ] | ABC                | 50       |
| 60       | 3372           | 3.76 [ 95.6 ]  | 3.605 [ 91.54 ] | 3.365 [ 85.47 ] | 3.21 [ 81.5 ] | ABC                | 60       |
| 64       | 3764           | 3.96 [ 100.7 ] | 3.805 [ 96.62 ] | 3.565 [ 90.55 ] | 3.41 [ 86.6 ] | ABC                | 64       |

\* AVAILABLE WITHOUT CENTER NOTCH B. CONTACT 3M

| TABLE 2               |                                               |               |                                  |                                |                                   |                                 |
|-----------------------|-----------------------------------------------|---------------|----------------------------------|--------------------------------|-----------------------------------|---------------------------------|
| 3M PART NUMBER SUFFIX | CONTACT TAIL                                  | DIM. "E"      | PIN CROSS SECTION                |                                |                                   | DIM. "G"                        |
| -5XX2                 | .062 [ 1.57 ] THICK PC BOARD                  | .112 [ 2.84 ] | DIM. "F" .0245+/- .0005 [ .622 ] | DIAGONALS .028+/- .001 [ .71 ] | CORNER RADIUS .0075 REF. [ .191 ] | .035+/- .003 [ .89 ] SEE NOTE 5 |
| -6XX2                 |                                               |               |                                  |                                |                                   |                                 |
| -5X03                 | .094 [ 2.39 ] TO .125 [ 3.18 ] THICK PC BOARD | .155 [ 3.94 ] | .0245+/- .0005 [ .622 ]          | .028+/- .001 [ .71 ]           | .0075 REF. [ .191 ]               | .035+/- .003 [ .89 ]            |
| -6X03                 |                                               |               |                                  |                                |                                   |                                 |

DESIGN REFERENCE  
NEXT ASSEMBLY

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

MAX SURFACE ROUGHNESS  
DEF SURFACES  
MARKED ONLY

INTERCONNECT SOLUTIONS

SCALE 4/1

INTERPRET PER ASME Y14.5 - 2009

TOLERANCES EXCEPT AS NOTED

INCHES  
.0 ±.01  
.000 ±.005  
.0000 ±

MILLIMETERS  
0 ±  
.0 ±.3  
.00 ±.13  
.000 ±

ANGLES

REVISIONS

60056 MAR 06,2015 REVISE ORDERING NUMBER

56068 JUL 25,2014 REVISED AND REDRAWN

ECO ISSUE DATE AND DESCRIPTION

DRFT DATE

CHKD DATE

APPRV R. SCHERER DATE SEP 05,2014

3M

3M Center St. Paul, MN 55144

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TITLE  
HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA

CAGE NUMBER  
SIZE  
DRAWING NO. D78-5100-0772-3

REV. S

MODEL 3000 SERIES

DET LISTS

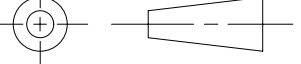
YES NO

SHT 2 OF 4

.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

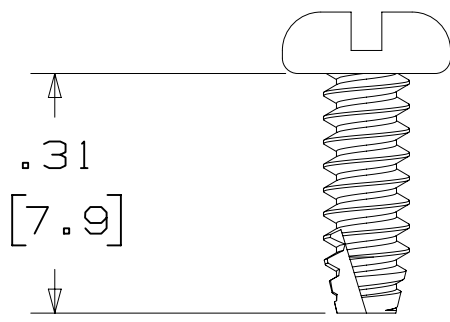



 (.03)  
 [(0.8)]  
 TYP.

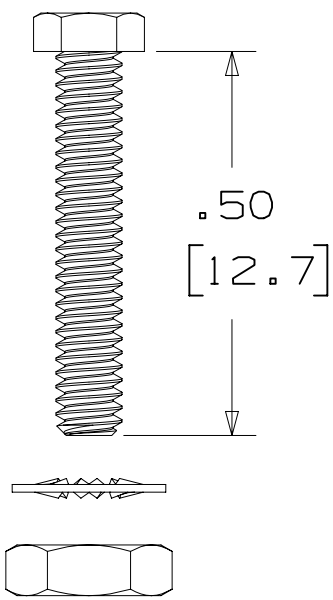
|                                                                                                                     |  |               |  |                                     |  |                                                                                       |  |                                                                                                                                                                                                                                                                         |  |              |  |                                                                     |  |                              |  |
|---------------------------------------------------------------------------------------------------------------------|--|---------------|--|-------------------------------------|--|---------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|---------------------------------------------------------------------|--|------------------------------|--|
| DESIGN REFERENCE                                                                                                    |  | NEXT ASSEMBLY |  | REV                                 |  | ECO                                                                                   |  | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                                                                              |  |              |  | DRFT                                                                |  | CHKD                         |  |
| ACCORDS                                                                                                             |  |               |  | BPN                                 |  | CASTIGLIONE                                                                           |  | DATE                                                                                                                                                                                                                                                                    |  | JUL 25, 2014 |  | MFG                                                                 |  | DATE                         |  |
|                                                                                                                     |  |               |  | CHKD                                |  |                                                                                       |  | DATE                                                                                                                                                                                                                                                                    |  |              |  | APPRV                                                               |  | R. SCHERER DATE SEP 05, 2014 |  |
| DIVISION                                                                                                            |  |               |  | DIVISION CODE                       |  |                                                                                       |  | <p align="center">© 3M COPYRIGHT 2015</p> <p>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.</p> |  |              |  |                                                                     |  |                              |  |
| Interconnect Solutions                                                                                              |  |               |  | EMSD                                |  |                                                                                       |  |                                                                                                                                                                                                                                                                         |  |              |  |                                                                     |  |                              |  |
| DO NOT SCALE DRAWING                                                                                                |  | SCALE 4 1     |  | TOLERANCES EXCEPT AS NOTED          |  |  |  | <p><b>3M</b></p> <p>3M Center<br/>St. Paul,<br/>MN 55144</p>                                                                                                                                                                                                            |  |              |  |                                                                     |  |                              |  |
|                                                                                                                     |  |               |  |                                     |  |                                                                                       |  |                                                                                                                                                                                                                                                                         |  |              |  |                                                                     |  |                              |  |
|  <p>THIRD ANGLE PROJECTION</p> |  |               |  | INCHES                              |  | TITLE                                                                                 |  | <p>HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT &amp; RA</p>                                                                                                                                                                                                     |  |              |  |                                                                     |  |                              |  |
|                                                                                                                     |  |               |  | .00 ± .01<br>.000 ± .005<br>.0000 ± |  | .00 ± .01<br>.00 ± .13<br>.000 ±                                                      |  |                                                                                                                                                                                                                                                                         |  |              |  |                                                                     |  |                              |  |
| INTERPRET PER ASME Y14.5 - 2009                                                                                     |  |               |  | MILLIMETERS                         |  | CAGE NUMBER                                                                           |  | SIZE                                                                                                                                                                                                                                                                    |  | DRAWING NO.  |  | REV.                                                                |  |                              |  |
| <del>MAX SURFACE ROUGHNESS</del><br><del>MAX SURFACES</del><br><input checked="" type="checkbox"/> MARKED ONLY      |  |               |  | .00 ± .3<br>.00 ± .13<br>.000 ±     |  | <b>D</b>                                                                              |  | 78-5100-0772-3                                                                                                                                                                                                                                                          |  | S            |  |                                                                     |  |                              |  |
|                                                                                                                     |  |               |  | .000 ±                              |  | MODEL                                                                                 |  | 3000 SERIES                                                                                                                                                                                                                                                             |  | DET. LISTS   |  | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |  | SHT 3 OF 4                   |  |

3M™ FOUR-WALL HEADER, 3000 SERIES  
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

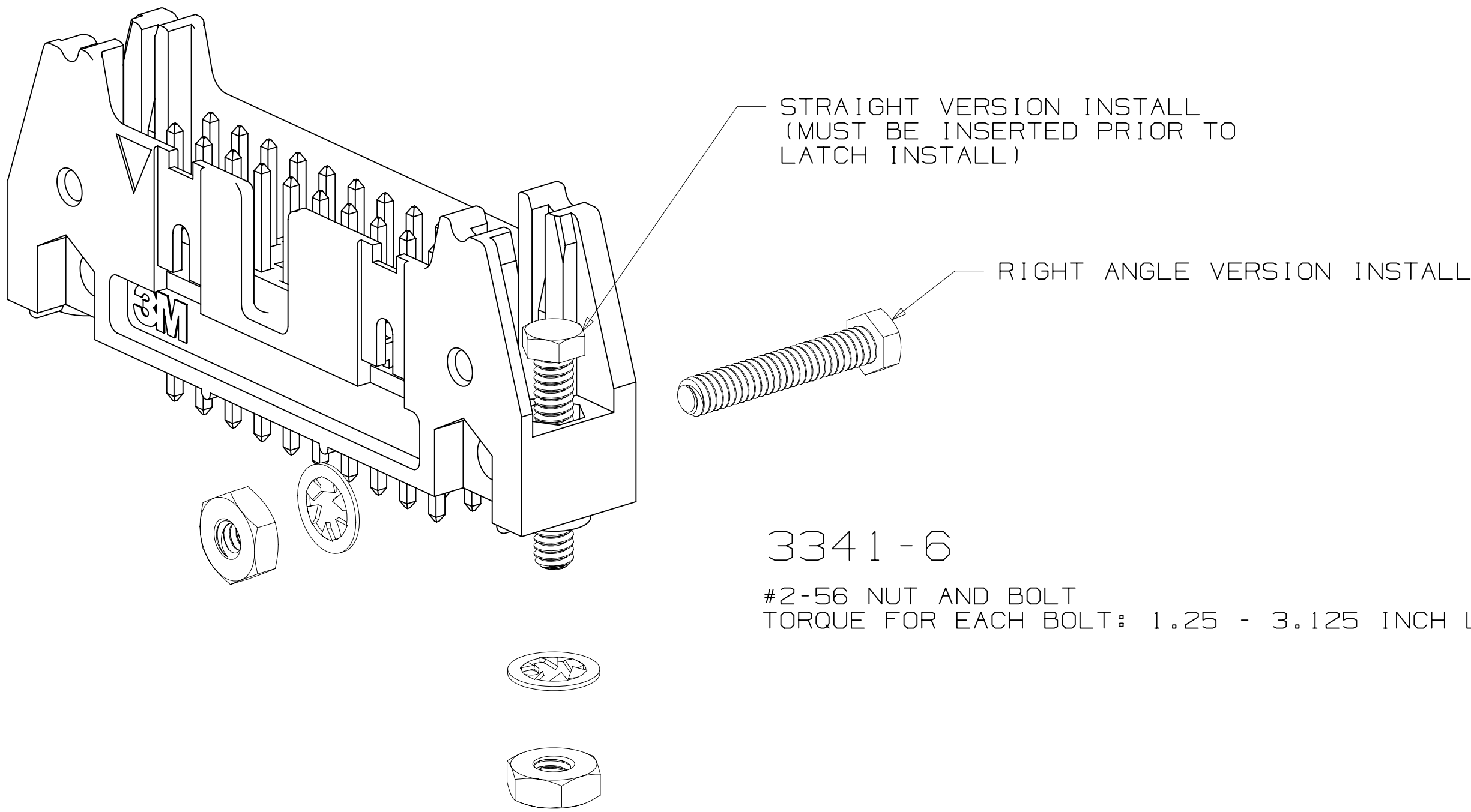
MOUNTING HARDWARE



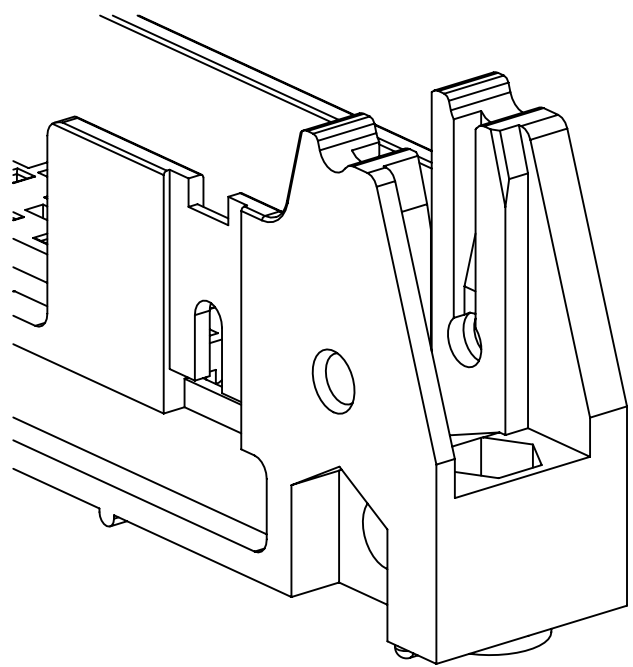
3341-5  
(INSTALL FROM BOTTOM OF BOARD)  
PANHEAD THREAD CUTTING SCREW:  
#4-24 X 5/16"  
TYPE: USA STD BT, FEDERAL BG  
MATERIAL: STAINLESS STEEL



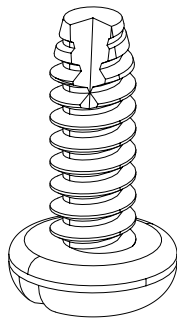
3341-6  
HEX HEAD BOLT, NUT AND WASHER:  
BOLT - #2-56 X 1/2"  
MATERIAL: STAINLESS STEEL



3341-6  
#2-56 NUT AND BOLT  
TORQUE FOR EACH BOLT: 1.25 - 3.125 INCH LBS.



#4-24 TYPE BT SELF THREADING SCREW  
WHEN USING LATCHES, MAXIMUM LENGTH  
OF SCREW IS .250 INCHES PLUS  
THICKNESS OF THE BOARD.  
TORQUE FOR EACH SCREW IS 3-5 INCH LBS.



3341-5

|                                 |  |                                     |  |                                  |             |                                                          |              |            |              |
|---------------------------------|--|-------------------------------------|--|----------------------------------|-------------|----------------------------------------------------------|--------------|------------|--------------|
| DESIGN REFERENCE                |  | NEXT ASSEMBLY                       |  | REV                              | ECO         | ISSUE DATE AND DESCRIPTION                               |              | DRFT       | CHKD         |
| XREF                            |  | XREF                                |  | DR                               | CASTIGLIONE | DATE                                                     | JUL 25, 2014 | MFG        | DATE         |
| DIVISION                        |  | DIVISION CODE                       |  | CHKD                             |             | DATE                                                     |              | APPR       | DATE         |
| Interconnect Solutions          |  | EMSD                                |  |                                  |             |                                                          |              | R. SCHERER | SEP 05, 2014 |
| DO NOT SCALE DRAWING            |  | SCALE 4/1                           |  | TOLERANCES EXCEPT AS NOTED       |             | 3M                                                       |              |            |              |
| THIRD ANGLE PROJECTION          |  | INCHES                              |  | MILLIMETERS                      |             | TITLE                                                    |              |            |              |
| INTERPRET PER ASME Y14.5 - 2009 |  | .00 ± .01<br>.000 ± .005<br>.0000 ± |  | .0 ± .3<br>.00 ± .13<br>ANGLES ± |             | HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA |              |            |              |
| MAX SURFACE ROUGHNESS           |  | CAGE NUMBER                         |  | SIZE                             |             | DRAWING NO.                                              |              | REV.       |              |
| MARKED ONLY                     |  | D78-5100-0772-3                     |  | S                                |             | 3000 SERIES                                              |              | SHT 4 OF 4 |              |