

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



X3XXX-XXXXXX

**UL**  
UL FILE NO: E68080

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

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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: 200μ" [ 5.08μm ] TIN LEAD OR MATTE TIN (SEE ORDERING INFORMATION)
MARKINGS: 3M LOGO, PART IDENTIFICATION NUMBER AND ORIENTATION TRIANGLE

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INSULATION RESISTANCE:  $>1 \times 10^9 \Omega$  AT 500 V<sub>DC</sub>  
WITHSTANDING VOLTAGE: 1,000V<sub>RMS</sub> AT SEA LEVEL

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)

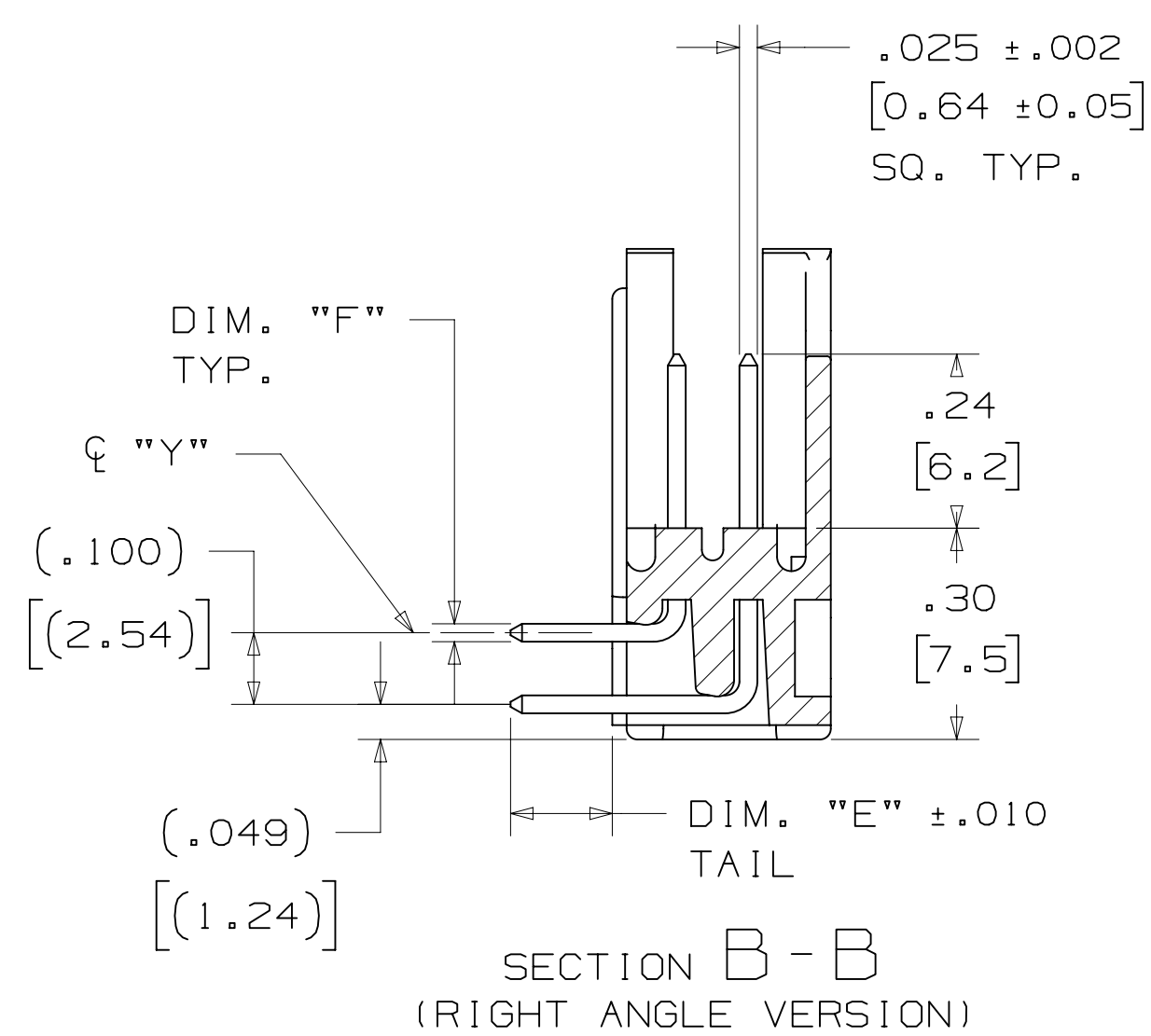
NOTES

1. REGULATORY INFORMATION:  
ROHS COMPLIANT. SEE THE  
REGULATORY INFORMATION  
APPENDIX (RIA) IN THE  
"ROHS COMPLIANCE" SECTION  
OF 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 ACCOMMODATE  
3M POLARIZING KEY: N3518).
4. MOUNTING HARDWARE:  
FROM SOLDER SIDE OF PC BOARD  
USE #4-24 THREAD CUTTING SCREW  
(3M PART #3341-5) WITH  
 $\varnothing .116$  [2.95] MOUNTING HOLE.  
FOR RIGHT ANGLE VERSION ONLY:  
#2-56 BOLT AND NUT (3M PART  
#3341-6) WITH  $\varnothing .106$  [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).

|                                                                                                                                                                                                                                                           |             |                            |              |                      |                                                                     |      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------|--------------|----------------------|---------------------------------------------------------------------|------|--|
| H                                                                                                                                                                                                                                                         | 60056       | MAR 06,2015                |              |                      | JNC                                                                 | RS   |  |
|                                                                                                                                                                                                                                                           |             | REVISE ORDERING<br>NUMBER  |              |                      |                                                                     |      |  |
| G                                                                                                                                                                                                                                                         | 56068       | AUG 05,2014                |              |                      | JNC                                                                 | RS   |  |
|                                                                                                                                                                                                                                                           |             | REVISED AND REDRAWN        |              |                      |                                                                     |      |  |
| REV                                                                                                                                                                                                                                                       | ECO         | ISSUE DATE AND DESCRIPTION |              |                      | DRFT                                                                | CHKD |  |
| DRFT                                                                                                                                                                                                                                                      | CAGTION ONE |                            | DATE         | MSG                  | DATE                                                                |      |  |
|                                                                                                                                                                                                                                                           |             |                            | AUG 05, 2014 |                      |                                                                     |      |  |
| CHKD                                                                                                                                                                                                                                                      |             |                            | DATE         | APPROV<br>R. SCHERER | DATE<br>SEP 05, 2014                                                |      |  |
|  3M Center<br>St. Paul,<br>MN 55144                                                                                                                                  |             |                            |              |                      |                                                                     |      |  |
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| TITLE                                                                                                                                                                                                                                                     |             |                            |              |                      |                                                                     |      |  |
| HEADER, 3-WALL, .100<br>X .100 LATCH/EJECTOR,<br>STRAIGHT & RA                                                                                                                                                                                            |             |                            |              |                      |                                                                     |      |  |
| CAGE<br>NUMBER                                                                                                                                                                                                                                            | SIZE        | DRAWING NO.                |              |                      |                                                                     | REV. |  |
|                                                                                                                                                                                                                                                           | D           | D78-5100-0771-5            |              |                      |                                                                     | H    |  |
| MODEL                                                                                                                                                                                                                                                     | 3000 SERIES |                            |              | DET.<br>LISTS        | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |      |  |
|                                                                                                                                                                                                                                                           |             |                            |              | SHT                  | 1 OF 4                                                              |      |  |

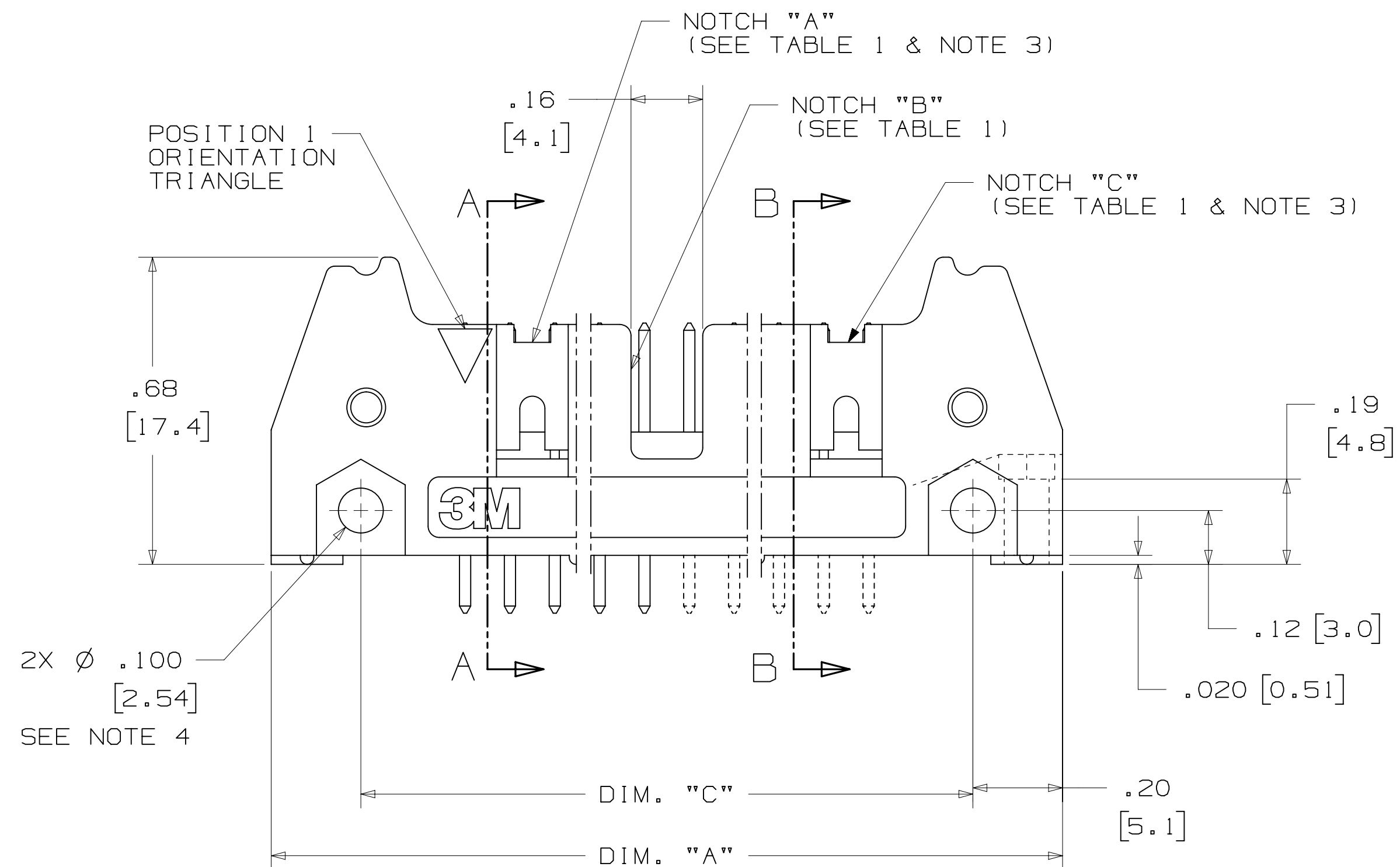
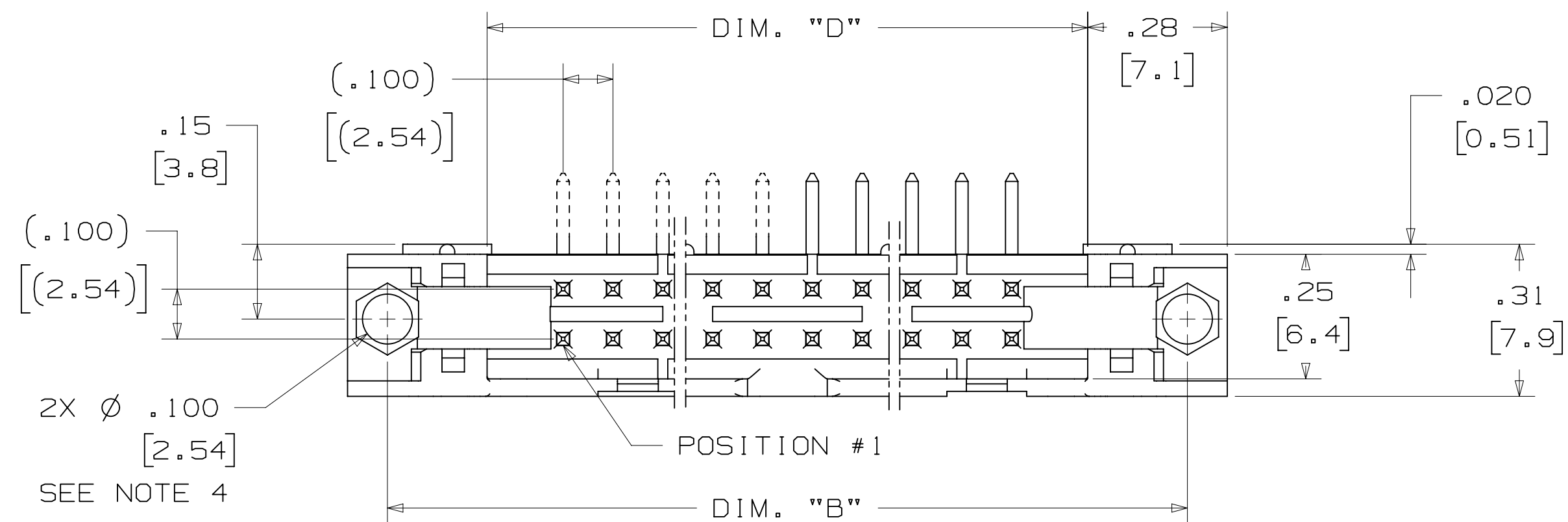
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.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



| TABLE 1  |                |                |                 |                 |               |                    |          |
|----------|----------------|----------------|-----------------|-----------------|---------------|--------------------|----------|
| PIN QTY. | 3M PART NUMBER | DIM. "A"       | DIM. "B"        | DIM. "C"        | DIM. "D"      | POLARIZING NOTCHES | PIN QTY. |
| 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       |
| 26       | 3429           | 2.06 [ 52.4 ]  | 1.905 [ 48.36 ] | 1.665 [ 42.29 ] | 1.51 [ 38.3 ] | ABC                | 26       |
| 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       |

| TABLE 2                     |                                                     |               |                         |                      |                     |                                    |
|-----------------------------|-----------------------------------------------------|---------------|-------------------------|----------------------|---------------------|------------------------------------|
| 3M PART<br>NUMBER<br>SUFFIX | CONTACT TAIL                                        | DIM. "E"      | PIN CROSS SECTION       |                      |                     | DIM. "G"                           |
| -1XX2                       | .062 [ 1.57 ] THICK<br>PC BOARD                     | .112 [ 2.84 ] | DIM. "F"                | DIAGONALS            | CORNER RADIUS       | .035+/- .003 [ .89 ]<br>SEE NOTE 5 |
| -2XX2                       |                                                     |               | .0245+/- .0005 [ .622 ] | .028+/- .001 [ .71 ] | .0075 REF. [ .191 ] |                                    |
| -1X03                       | .094 [ 2.39 ] TO<br>.125 [ 3.18 ] THICK<br>PC BOARD | .155 [ 3.94 ] | .0245+/- .0005 [ .622 ] | .028+/- .001 [ .71 ] | .0075 REF. [ .191 ] | .035+/- .003 [ .89 ]               |
| -2X03                       |                                                     |               |                         |                      |                     |                                    |



|                                                                                                                          |       |                                                                                                                                                                                                                                                           |                     |                                                                     |      |      |
|--------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------|------|------|
| H                                                                                                                        | 60056 | MAR 06,2015                                                                                                                                                                                                                                               |                     |                                                                     | JNC  | RS   |
|                                                                                                                          |       | REVISED ORDERING                                                                                                                                                                                                                                          |                     |                                                                     |      |      |
|                                                                                                                          |       | NUMBER                                                                                                                                                                                                                                                    |                     |                                                                     |      |      |
| G                                                                                                                        | 56068 | AUG 05,2014                                                                                                                                                                                                                                               |                     |                                                                     | JNC  | RS   |
|                                                                                                                          |       | REVISED AND REDRAWN                                                                                                                                                                                                                                       |                     |                                                                     |      |      |
| REV                                                                                                                      | ECO   | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                                                                |                     |                                                                     | DRFT | CHKD |
| DRFT CASTIGLIONE                                                                                                         |       | DATE AUG 05,2014                                                                                                                                                                                                                                          | MFG                 | DATE                                                                |      |      |
| CHKD                                                                                                                     | DATE  |                                                                                                                                                                                                                                                           | APPROVAL R. SCHERER | DATE SEP 05,2014                                                    |      |      |
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| TITLE                                                                                                                    |       |                                                                                                                                                                                                                                                           |                     |                                                                     |      |      |
| HEADER, 3-WALL, .100<br>X .100 LATCH/EJECTOR,<br>STRAIGHT & RA                                                           |       |                                                                                                                                                                                                                                                           |                     |                                                                     |      |      |
| CAGE NUMBER                                                                                                              |       | SIZE                                                                                                                                                                                                                                                      | DRAWING NO.         |                                                                     |      | REV. |
| D                                                                                                                        |       | 78-5100-0771-5                                                                                                                                                                                                                                            |                     |                                                                     | H    |      |
| MODEL 3000 SERIES                                                                                                        |       | DET. LISTS                                                                                                                                                                                                                                                |                     | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |      |      |
|                                                                                                                          |       |                                                                                                                                                                                                                                                           |                     | SHT 2 OF 4                                                          |      |      |

|                                                                                                                 |                 |                                     |  |
|-----------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------|--|
| DESIGN REFERENCE                                                                                                |                 | NEXT ASSEMBLY                       |  |
| ACROSS CODES                                                                                                    |                 |                                     |  |
| DIVISION                                                                                                        |                 | DIVISION CODE                       |  |
| Interconnect Solutions                                                                                          |                 | EMSD                                |  |
| DO NOT SCALE DRAWING                                                                                            | SCALE<br>4<br>1 | TOLERANCES EXCEPT AS NOTED          |  |
| <br>THIRD ANGLE PROJECTION |                 | INCHES                              |  |
|                                                                                                                 |                 | .00 ± .01<br>.000 ± .005<br>.0000 ± |  |
| INTERPRET PER<br>ASME Y14.5 - 2009                                                                              |                 | MILLIMETER                          |  |
| MAX. SURFACE ROUGHNESS<br>✓ <input type="checkbox"/> DUAL SURFACES<br><input type="checkbox"/> MARKED ONLY      |                 | .00 ± .13<br>.000 ±                 |  |
|                                                                                                                 |                 | ANGLES ±                            |  |

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



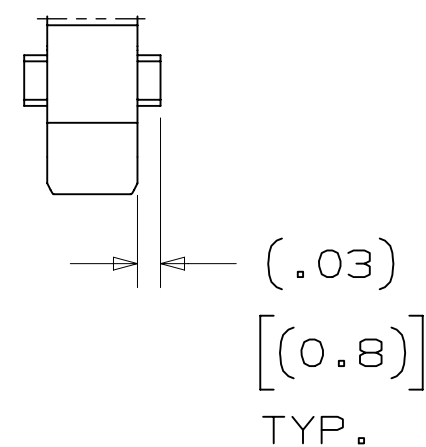
THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

BOTH SNAP-IN AND ROLL PIN LATCHES MAY BE ORDERED SEPARATELY. SNAP-IN AND ROLL PIN STYLE LATCHES ARE DIMENSIONALLY AND FUNCTIONALLY EQUIVALENT. IF ORDERING SNAP-IN OR ROLL PIN STYLE LATCHES SEPARATELY, PLEASE USE THE BELOW CHART.

```
* SELECTIVE PIN REMOVAL (ATA OR OTHER COMPATABILITY)
* WIRE WRAP TAILS STYLE
```

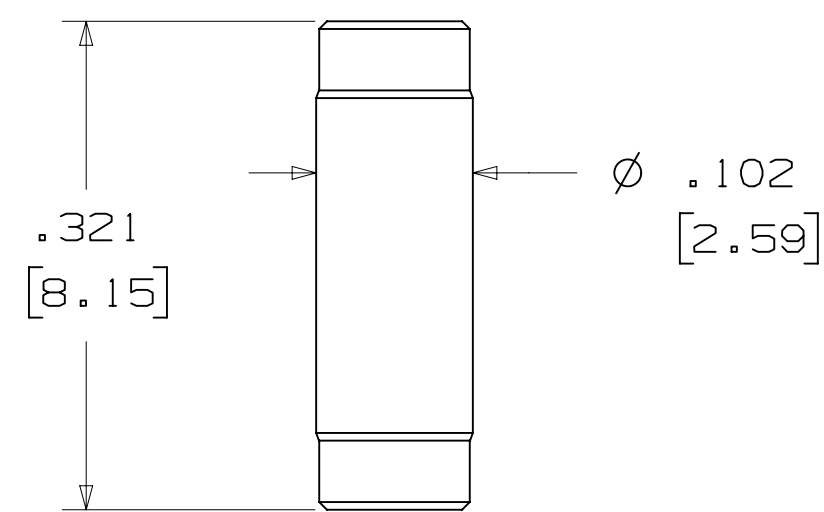


SHORT



## SNAP-IN LATCHES

NOTE :  
SNAP-IN LATCHES CAN ONLY BE ORDERED  
SEPARATELY AND ARE THE CUSTOMERS  
RESPONSIBILITY TO INSTALL.

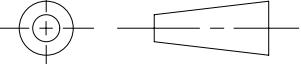


NOTE:  
INSERT POST INTO ONE MOUNTING  
HARDWARE HOLE ON BOTTOM OF HEADER.  
SET POST TO PROTRUDE .115 [2.92]

KINKED TAIL DETAIL:

- KINK IS LOCATED .05" BELOW BOTTOM SURFACE OF PLASTIC.
- EXTERNAL RADIUS OF KINK TOWARD PART CENTERLINE.



|                                                                                       |  |                        |  |                                                      |  |                                                          |  |                                                                                       |  |                                                                                                                                                                                                                                               |  |            |  |              |  |
|---------------------------------------------------------------------------------------|--|------------------------|--|------------------------------------------------------|--|----------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|--------------|--|
| DESIGN REFERENCE                                                                      |  | NEXT ASSEMBLY          |  | REV                                                  |  | ECO                                                      |  | ISSUE DATE AND DESCRIPTION                                                            |  |                                                                                                                                                                                                                                               |  | DRFT       |  | CHKD         |  |
| ACROSS                                                                                |  |                        |  | BPR                                                  |  | CASTIGLIONE                                              |  | DATE                                                                                  |  | MFG                                                                                                                                                                                                                                           |  | DATE       |  |              |  |
|                                                                                       |  |                        |  |                                                      |  |                                                          |  | DATE                                                                                  |  | R. SCHERER                                                                                                                                                                                                                                    |  | DATE       |  | SEP 05, 2014 |  |
| DIVISION                                                                              |  | Interconnect Solutions |  | DIVISION CODE                                        |  | EMSD                                                     |  |  |  | © 3M COPYRIGHT 2015<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 4/1              |  | TOLERANCES EXCEPT AS NOTED                           |  |                                                          |  |                                                                                       |  |                                                                                                                                                                                                                                               |  |            |  |              |  |
|  |  | INCHES                 |  | .00 ± .01<br>.000 ± .005<br>.0000 ±                  |  | TITLE                                                    |  |                                                                                       |  |                                                                                                                                                                                                                                               |  |            |  |              |  |
|                                                                                       |  | THIRD ANGLE PROJECTION |  | MILLIMETERS<br>0 ±<br>.0 ± .3<br>.00 ± .13<br>.000 ± |  | HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA |  |                                                                                       |  |                                                                                                                                                                                                                                               |  |            |  |              |  |
| INTERPRET PER ASME Y14.5 - 2009                                                       |  | MAY SURFACE ROUGHNESS  |  | ALL SURFACES                                         |  | CAGE NUMBER                                              |  | SIZE                                                                                  |  | DRAWING NO.                                                                                                                                                                                                                                   |  | REV.       |  |              |  |
| <input checked="" type="checkbox"/> MARKED ONLY                                       |  |                        |  |                                                      |  | D                                                        |  | 78-5100-0771-5                                                                        |  | H                                                                                                                                                                                                                                             |  |            |  |              |  |
|                                                                                       |  |                        |  | MODEL                                                |  | 3000 SERIES                                              |  | DET. LISTS                                                                            |  | YES X NO                                                                                                                                                                                                                                      |  | SHT 3 OF 4 |  |              |  |

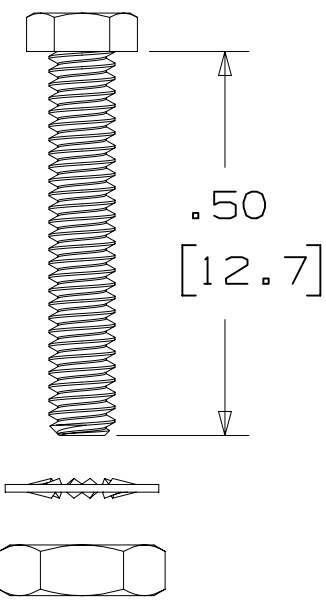
3M™ THREE-WALL HEADER, 3000 SERIES  
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

MOUNTING HARDWARE



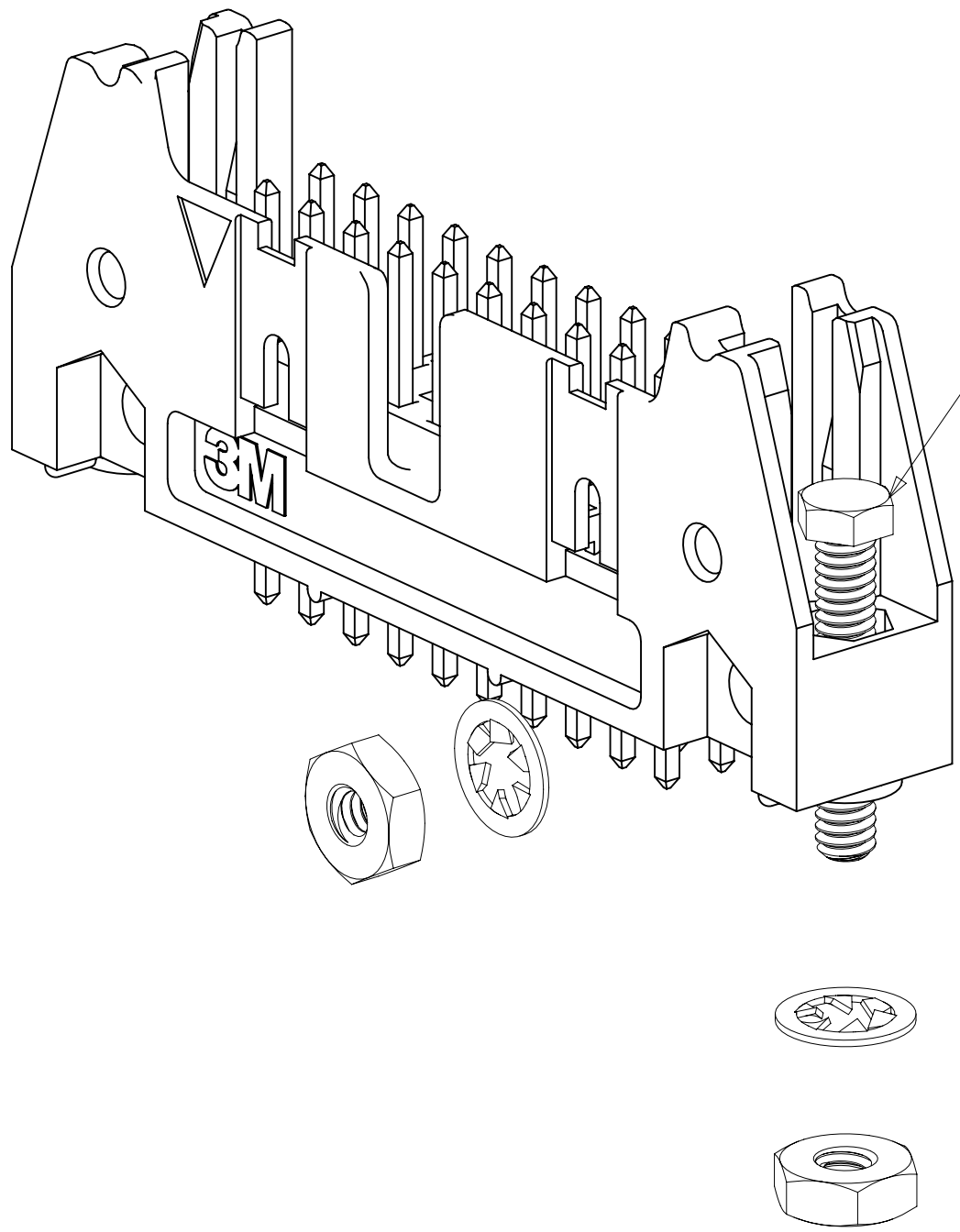
3341-5

(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

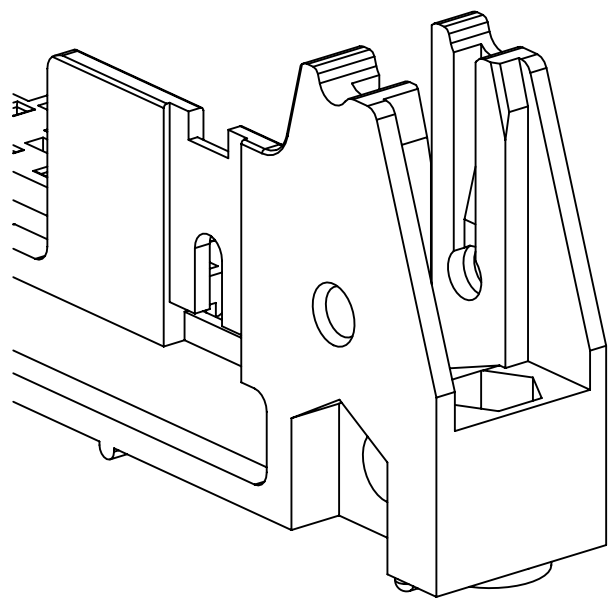


STRAIGHT VERSION INSTALL  
(MUST BE INSERTED PRIOR TO  
LATCH INSTALL)

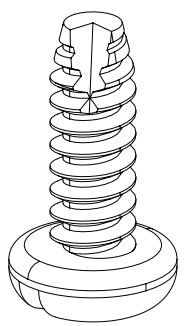
RIGHT ANGLE VERSION INSTALL

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

|                                 |  |                                     |  |                                  |  |                                                                                                                                                                                                                        |  |              |  |
|---------------------------------|--|-------------------------------------|--|----------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|
| H                               |  | 60056                               |  | MAR 06, 2015                     |  | JNC                                                                                                                                                                                                                    |  | RS           |  |
| G                               |  | 56068                               |  | AUG 05, 2014                     |  | JNC                                                                                                                                                                                                                    |  | RS           |  |
| REV                             |  | ECO                                 |  | ISSUE DATE AND DESCRIPTION       |  | DRFT                                                                                                                                                                                                                   |  | CHKD         |  |
| DRFT                            |  | CASTIGLIONE                         |  | DATE                             |  | MFG                                                                                                                                                                                                                    |  | DATE         |  |
| CHKD                            |  |                                     |  | AUG 05, 2014                     |  | APPR                                                                                                                                                                                                                   |  | DATE         |  |
|                                 |  |                                     |  |                                  |  | R. SCHERER                                                                                                                                                                                                             |  | SEP 05, 2014 |  |
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| Interconnect Solutions          |  | EMSD                                |  | 3M Center<br>St. Paul, MN 55144  |  | TITLE                                                                                                                                                                                                                  |  |              |  |
| DO NOT SCALE DRAWING            |  | SCALE 4 1                           |  | TOLERANCES EXCEPT AS NOTED       |  | HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA                                                                                                                                                               |  |              |  |
| THIRD ANGLE PROJECTION          |  | INCHES                              |  | MILLIMETERS                      |  | CAGE NUMBER                                                                                                                                                                                                            |  |              |  |
| INTERPRET PER ASME Y14.5 - 2009 |  | .00 ± .01<br>.000 ± .005<br>.0000 ± |  | .00 ± .3<br>.000 ± .13<br>.000 ± |  | SIZE                                                                                                                                                                                                                   |  |              |  |
| MAX SURFACE ROUGHNESS           |  | ANGLES                              |  | MODEL                            |  | DRAWING NO.                                                                                                                                                                                                            |  |              |  |
| ✓ □ MARKED ONLY                 |  |                                     |  | 3000 SERIES                      |  | D78-5100-0771-5                                                                                                                                                                                                        |  |              |  |
|                                 |  |                                     |  |                                  |  | REV.                                                                                                                                                                                                                   |  |              |  |
|                                 |  |                                     |  |                                  |  | H                                                                                                                                                                                                                      |  |              |  |
|                                 |  |                                     |  |                                  |  | DET. LISTS                                                                                                                                                                                                             |  |              |  |
|                                 |  |                                     |  |                                  |  | YES X NO                                                                                                                                                                                                               |  |              |  |
|                                 |  |                                     |  |                                  |  | SHT 4 OF 4                                                                                                                                                                                                             |  |              |  |