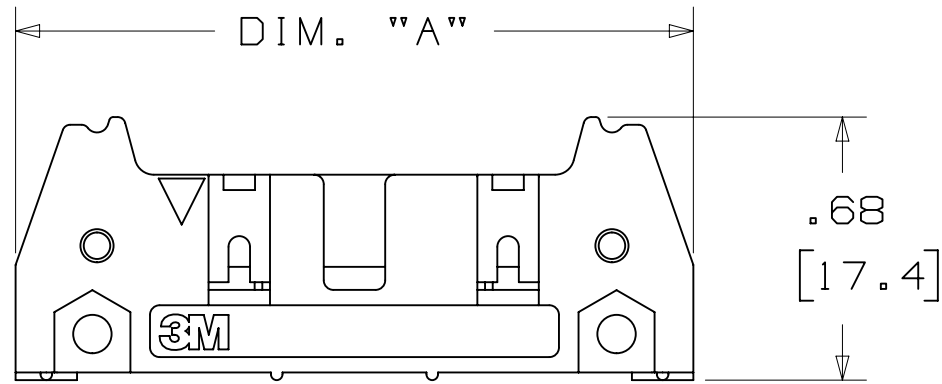
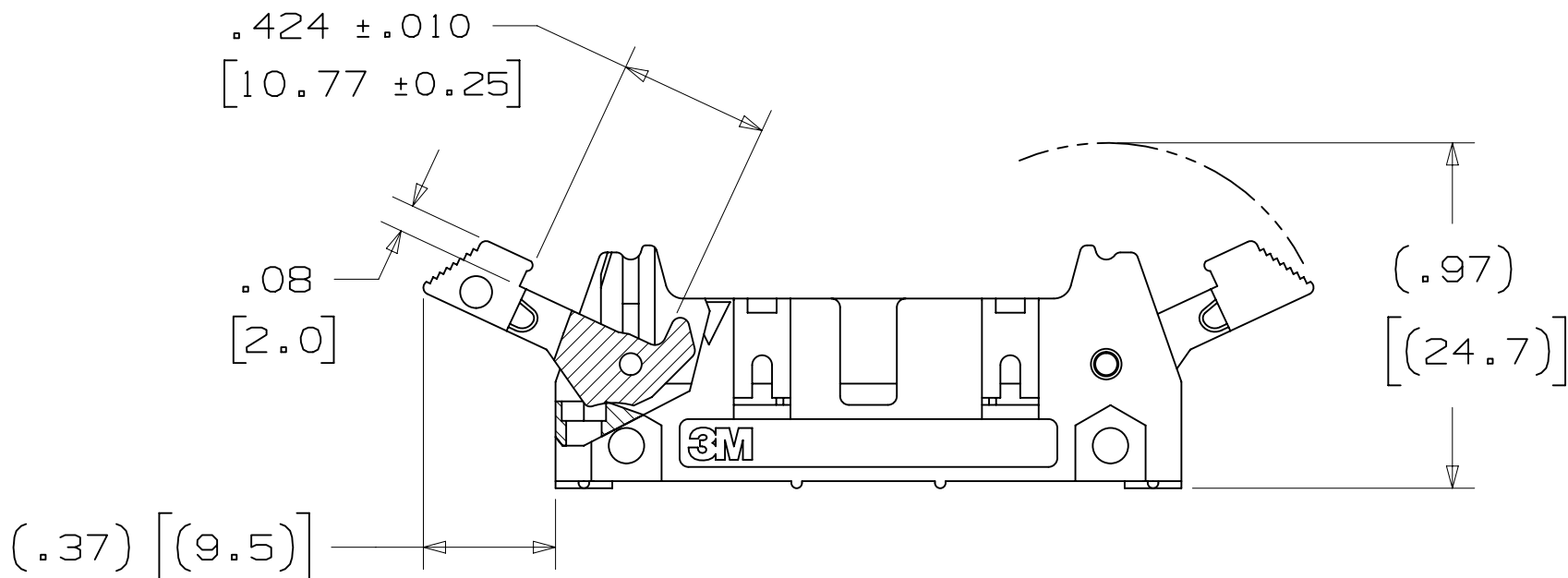


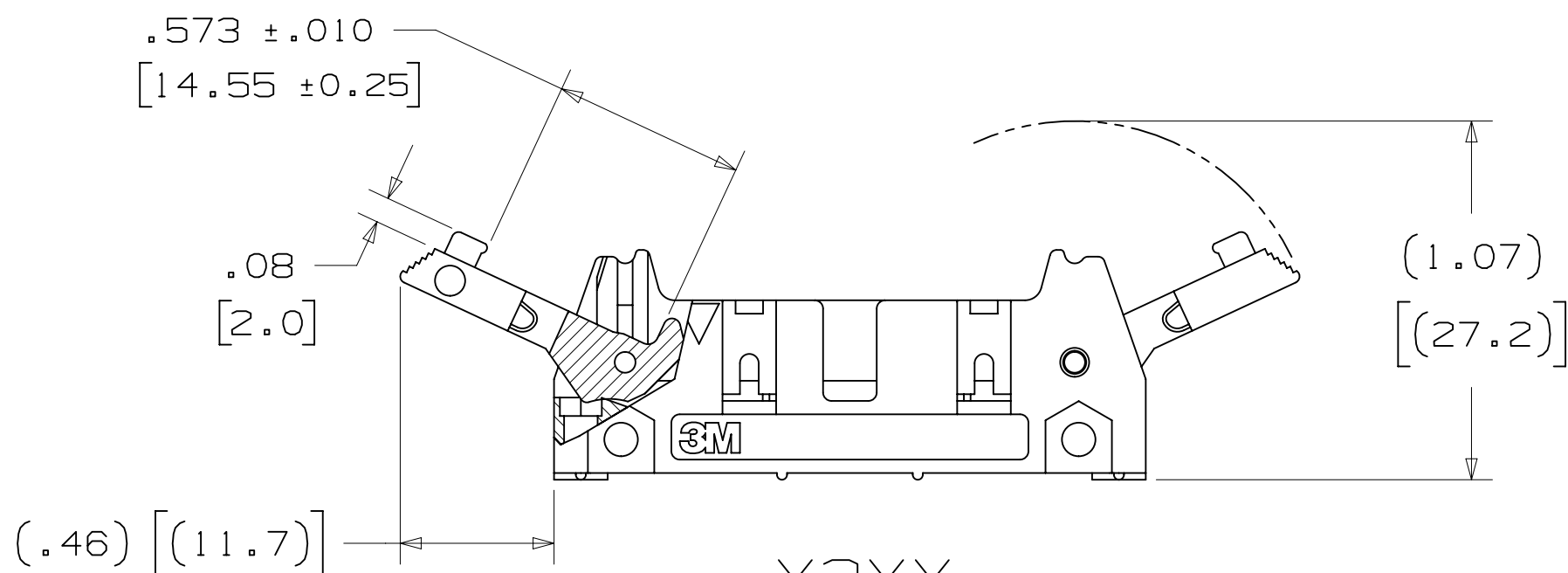
3M™ FOUR-WALL HEADER, 3000 SERIES  
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



-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

2 PHYSICAL :

INSULATOR: GLASS FILLED POLYESTER (PCT)  
MATERIAL: UL94V-0  
FLAMMABILITY: 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 X 10<sup>9</sup>Ω 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)

ORDERING INFORMATION

N= HIGH TEMP BLACK (PCT)/(RB PLATING REQ'D)  
BLANK= (UB PLATING)  
3M PART NUMBER:  
(SEE TABLE 1)

PIN CONFIGURATION:  
5 = RIGHT ANGLE SOLDER TAILS  
6 = STRAIGHT SOLDER TAILS

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:  
02 = FOR .062 [1.57] THICK BOARD  
03 = 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

- \* 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.

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 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 Ø.035±.002.  
(SEE K2 VERSION).

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

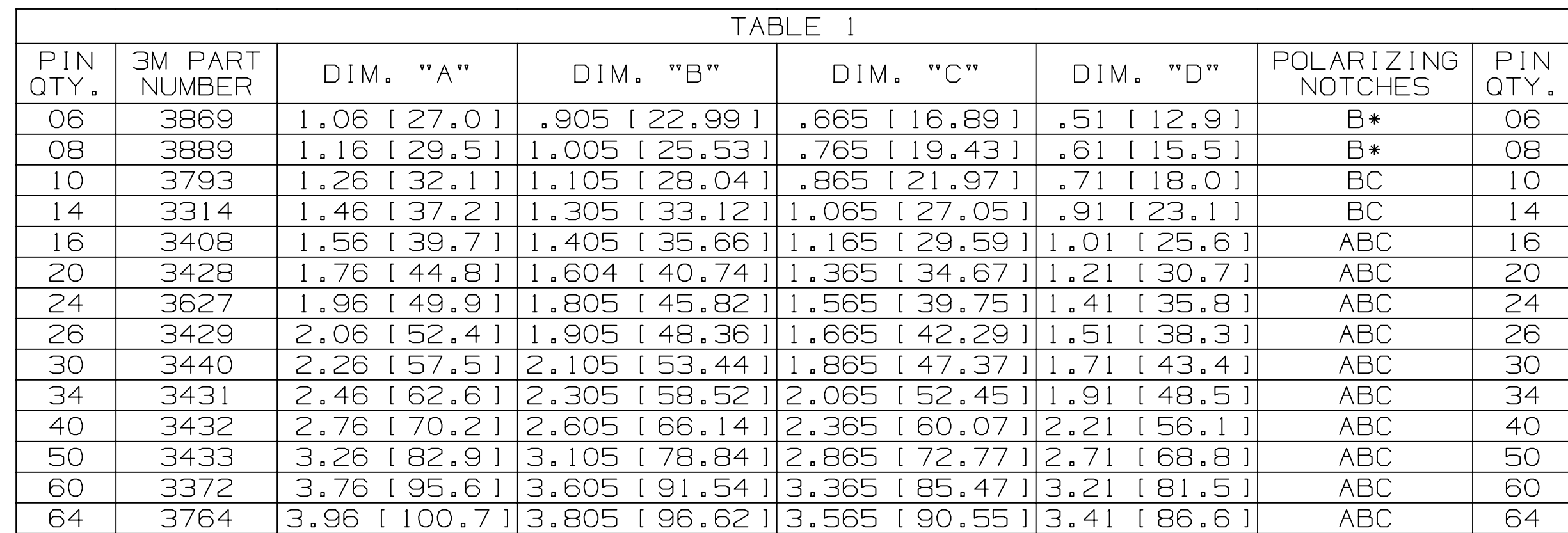
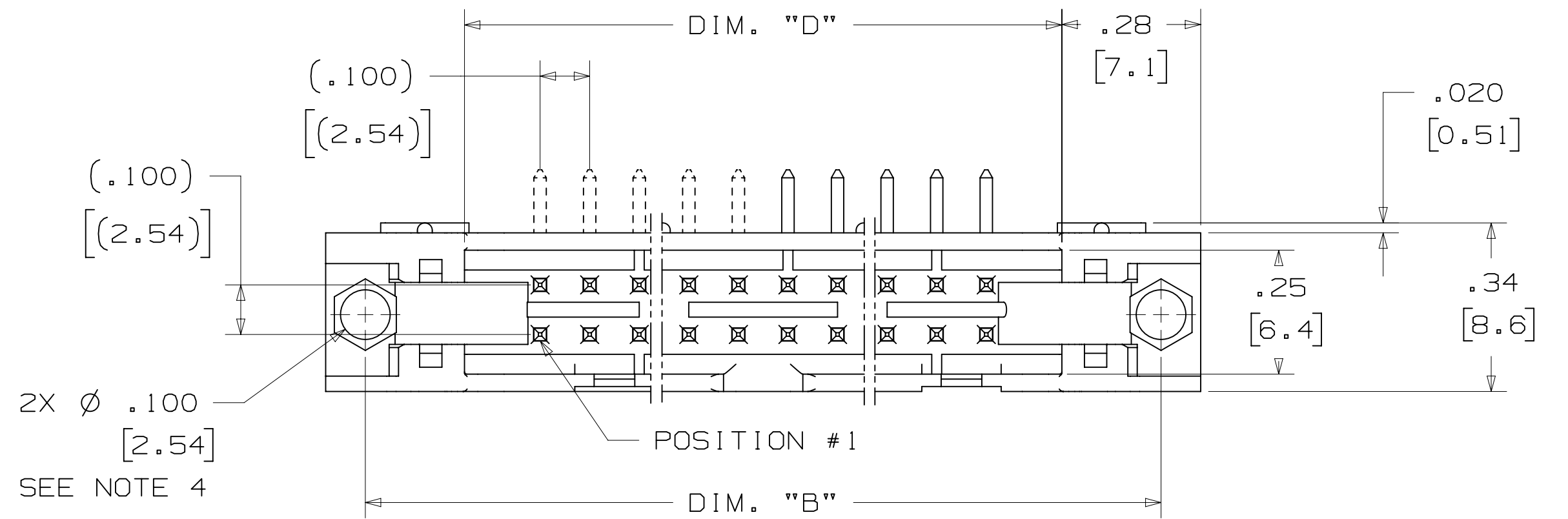
|                                                          |               |                              |                |                            |      |              |
|----------------------------------------------------------|---------------|------------------------------|----------------|----------------------------|------|--------------|
| DESIGN REFERENCE                                         | NEXT ASSEMBLY | REV                          | ECO            | ISSUE DATE AND DESCRIPTION | DRFT | CHKD         |
| CODES                                                    |               |                              |                | DATE                       | DATE | DATE         |
|                                                          |               |                              |                | JUL 25, 2014               |      |              |
|                                                          |               |                              |                | R. SCHERER                 |      | SEP 05, 2014 |
| DIVISION                                                 | DIVISION CODE | 3M Center St. Paul, MN 55144 |                |                            |      |              |
| Interconnect Solutions                                   | EMSD          | © 3M COPYRIGHT 2015          |                |                            |      |              |
| DO NOT SCALE DRAWING                                     | SCALE 2 1     | TOLERANCES EXCEPT AS NOTED   |                |                            |      |              |
|                                                          |               | INCHES                       |                |                            |      |              |
|                                                          |               | .0 ± .01                     |                |                            |      |              |
|                                                          |               | .000 ± .005                  |                |                            |      |              |
|                                                          |               | .0000 ±                      |                |                            |      |              |
| THIRD ANGLE PROJECTION                                   |               | MILLIMETERS                  |                |                            |      |              |
|                                                          |               | 0 ±                          |                |                            |      |              |
|                                                          |               | .0 ± .3                      |                |                            |      |              |
|                                                          |               | .00 ± .13                    |                |                            |      |              |
|                                                          |               | .000 ±                       |                |                            |      |              |
| MAX SURFACE ROUGHNESS                                    |               | ANGLES                       |                |                            |      |              |
| 12.5 SURFACES                                            |               |                              |                |                            |      |              |
| ✓ MARKED ONLY                                            |               |                              |                |                            |      |              |
| TITLE                                                    |               | CAGE NUMBER                  | SIZE           | DRAWING NO.                | REV. |              |
| HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA |               | D                            | 78-5100-0772-3 | S                          |      |              |
| MODEL                                                    |               | 3000 SERIES                  | DET            | LISTS                      | YES  | NO           |
|                                                          |               |                              |                |                            | SHT  | 1 OF 4       |

UL FILE NO: E68080

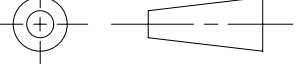
3M ELECTRONIC MATERIALS SOLUTIONS DIVISION  
INTERCONNECT SOLUTIONS  
<http://www.3mconnectors.com>

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

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



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

|                                                                                                                |  |               |  |                                     |  |                                                                                       |  |                                                                                                                                                                                                                                                          |  |              |  |          |  |                              |  |
|----------------------------------------------------------------------------------------------------------------|--|---------------|--|-------------------------------------|--|---------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|----------|--|------------------------------|--|
| DESIGN REFERENCE                                                                                               |  | NEXT ASSEMBLY |  | REV                                 |  | ECO                                                                                   |  | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                                                               |  |              |  | DRFT     |  | CHKD                         |  |
| ACROSS                                                                                                         |  |               |  | BPR                                 |  | CASTIGLIONE                                                                           |  | DATE                                                                                                                                                                                                                                                     |  | JUL 25, 2014 |  | MFG      |  | DATE                         |  |
|                                                                                                                |  |               |  | CHKD                                |  |                                                                                       |  | DATE                                                                                                                                                                                                                                                     |  |              |  | APPRV    |  | R. SCHERER DATE SEP 05, 2014 |  |
| DIVISION                                                                                                       |  |               |  | DIVISION CODE                       |  |                                                                                       |  | <p>© 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>3M Center St. Paul, MN 55144</p>                                                                                                                                                                                                                      |  |              |  |          |  |                              |  |
|                                                                                                                |  |               |  |                                     |  |                                                                                       |  |                                                                                                                                                                                                                                                          |  |              |  |          |  |                              |  |
|                           |  |               |  | INCHES                              |  | TITLE                                                                                 |  | <p>HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT &amp; RA</p>                                                                                                                                                                                      |  |              |  |          |  |                              |  |
| THIRD ANGLE PROJECTION                                                                                         |  |               |  | .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 ±     |  | D 78-5100-0772-3                                                                      |  | S                                                                                                                                                                                                                                                        |  |              |  |          |  |                              |  |
|                                                                                                                |  |               |  | ANGLS                               |  | MODEL                                                                                 |  | 3000 SERIES                                                                                                                                                                                                                                              |  | DET. LISTS   |  | YES X NO |  | SHT 2 OF 4                   |  |

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



THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

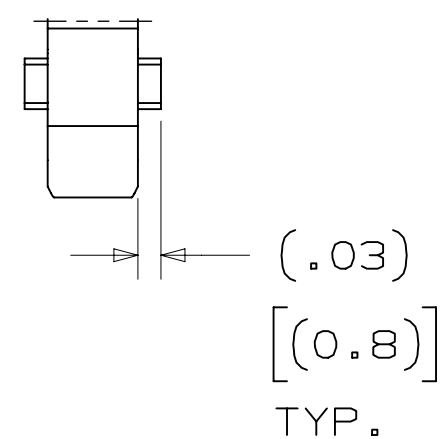
3M HAS SEVERAL CAPABILITIES THAT CAN PROVIDE A PART TAILORED TO YOUR SPECIFIC NEEDS. ASK YOUR 3M SALES REPRESENTATIVE OR CUSTOMER SERVICE FOR MORE DETAILS.

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
```



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:

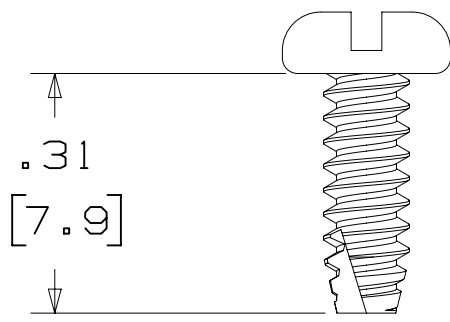
- KINK IS LOCATED .05" BELOW BOTTOM SURFACE OF PLASTIC.
- EXTERNAL RADIUS OF KINK TOWARD PART CENTERLINE.

NOTE:  
#2216 B/A SCOTCHWELD CAN BE USED TO  
ADHERE KEYS.

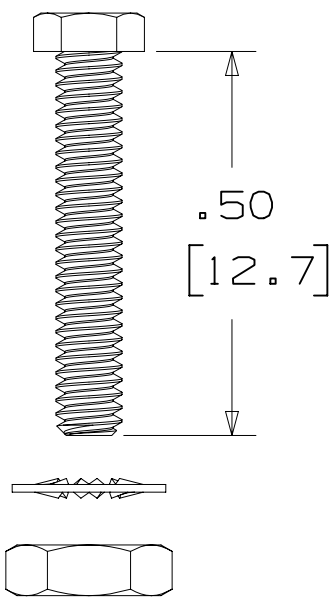
|                                                  |  |                     |  |                                            |             |                                                                                                                                                                                                                        |              |                                                                     |      |
|--------------------------------------------------|--|---------------------|--|--------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------|------|
| DESIGN REFERENCE                                 |  | NEXT ASSEMBLY       |  | REV                                        | ECO         | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                             |              | DRFT                                                                | CHKD |
| ACROSS CODES                                     |  |                     |  | DRFT                                       | CAST1G1L1NE |                                                                                                                                                                                                                        | DATE         | MFG                                                                 | DATE |
|                                                  |  |                     |  | CHKD                                       |             |                                                                                                                                                                                                                        | JUL 25, 2014 |                                                                     |      |
|                                                  |  |                     |  |                                            |             | DATE                                                                                                                                                                                                                   | APPRV.       | DATE                                                                |      |
|                                                  |  |                     |  |                                            |             |                                                                                                                                                                                                                        | R. SCHERER   | SEP 05, 2014                                                        |      |
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| DO NOT SCALE DRAWING                             |  | SCALE<br>SCALE<br>1 |  | TOLERANCES EXCEPT AS NOTED                 |             | TITLE                                                                                                                                                                                                                  |              |                                                                     |      |
|                                                  |  |                     |  | INCHES                                     |             | HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA                                                                                                                                                               |              |                                                                     |      |
|                                                  |  |                     |  | .00 ±<br>.00 ±.01<br>.000 ±.005<br>.0000 ± |             |                                                                                                                                                                                                                        |              |                                                                     |      |
| THIRD ANGLE PROJECTION                           |  |                     |  | MILLIMETERS                                |             |                                                                                                                                                                                                                        |              |                                                                     |      |
| INTERPRET PER<br>ASME Y14.5 - 2009               |  |                     |  | .00 ±.3<br>.00 ±.13<br>.000 ±              |             |                                                                                                                                                                                                                        |              |                                                                     |      |
| MAX SURFACE ROUGHNESS                            |  |                     |  | CAGE NUMBER                                |             | SIZE DRAWING NO.                                                                                                                                                                                                       |              | REV.                                                                |      |
|                                                  |  |                     |  | D                                          |             | D78-5100-0772-3                                                                                                                                                                                                        |              | S                                                                   |      |
| <input checked="" type="checkbox"/> ALL SURFACES |  |                     |  | MODEL                                      |             | DET. LISTS                                                                                                                                                                                                             |              | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |      |
| <input type="checkbox"/> MARK ONLY               |  |                     |  | 3000 SERIES                                |             | SHT 3 OF 4                                                                                                                                                                                                             |              |                                                                     |      |

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

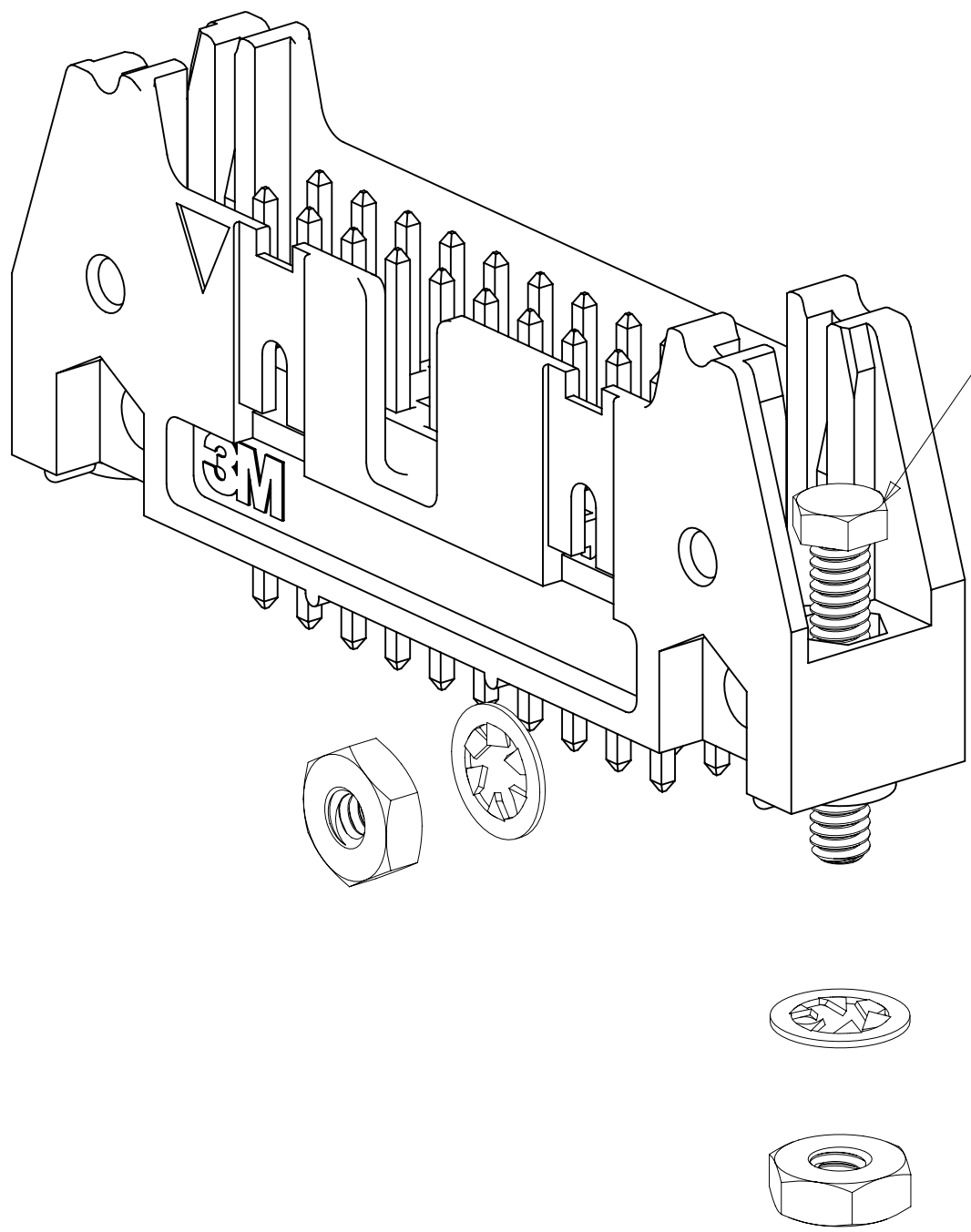
MOUNTING HARDWARE



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



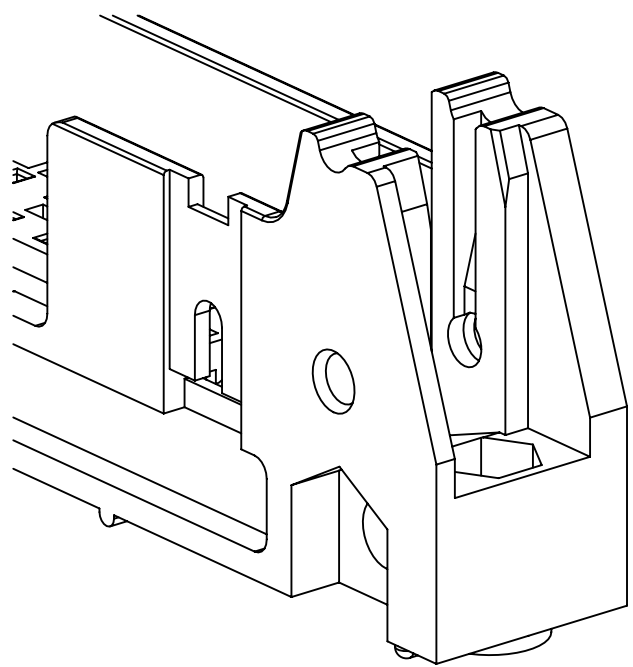
3341-6  
HEX HEAD BOLT, NUT AND WASHER:  
BOLT - #2-56 X 1/2"  
MATERIAL: STAINLESS STEEL



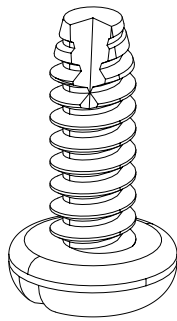
STRAIGHT VERSION INSTALL  
(MUST BE INSERTED PRIOR TO  
LATCH INSTALL)

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

|                                 |  |                                     |  |                                      |  |                 |  |              |  |
|---------------------------------|--|-------------------------------------|--|--------------------------------------|--|-----------------|--|--------------|--|
| S                               |  | 60056                               |  | MAR 06, 2015                         |  | JNC             |  | RS           |  |
| R                               |  | 56068                               |  | JUL 25, 2014                         |  | JNC             |  | RS           |  |
| REV                             |  | ECO                                 |  | ISSUE DATE AND DESCRIPTION           |  | DRFT            |  | CHKD         |  |
| DPR1                            |  | CASTIGLIONE                         |  | DATE JUL 25, 2014                    |  | MFG             |  | DATE         |  |
| CHKD                            |  |                                     |  | DATE                                 |  | R. SCHERER      |  | SEP 05, 2014 |  |
| DESIGN REFERENCE                |  | NEXT ASSEMBLY                       |  |                                      |  |                 |  |              |  |
| ADDRESS                         |  | CODES                               |  |                                      |  |                 |  |              |  |
| DIVISION                        |  | Interconnect Solutions              |  | DIVISION CODE                        |  | EMSD            |  |              |  |
| DO NOT SCALE DRAWING            |  | SCALE 4 1                           |  | TOLERANCES EXCEPT AS NOTED           |  |                 |  |              |  |
|                                 |  | THIRD ANGLE PROJECTION              |  | INCHES .00 ± .01 .000 ± .005 .0000 ± |  |                 |  |              |  |
| INTERPRET PER ASME Y14.5 - 2009 |  | MILLIMETERS 0 ± .3 .00 ± .13 .000 ± |  |                                      |  |                 |  |              |  |
| MAX SURFACE ROUGHNESS           |  | SURFACES                            |  |                                      |  |                 |  |              |  |
| ✓                               |  | MARKED ONLY                         |  |                                      |  |                 |  |              |  |
| MODEL                           |  | 3000 SERIES                         |  | CAGE NUMBER                          |  | D78-5100-0772-3 |  | REV. S       |  |
| SIZE                            |  | DRAWING NO.                         |  | DET. LISTS                           |  | YES X NO        |  | SHT 4 OF 4   |  |