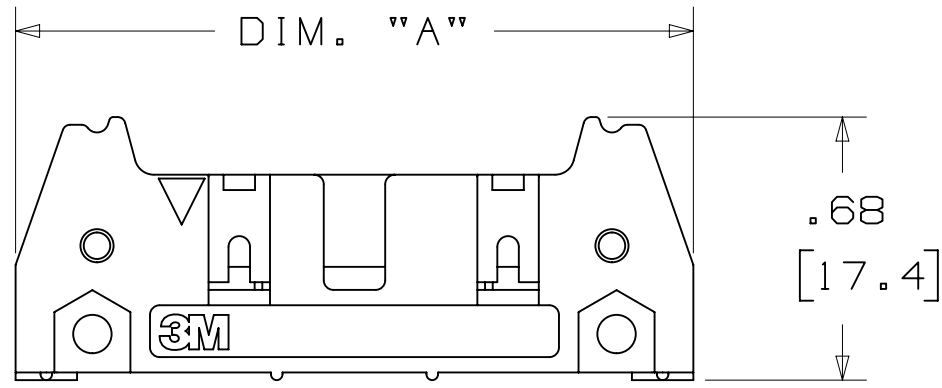
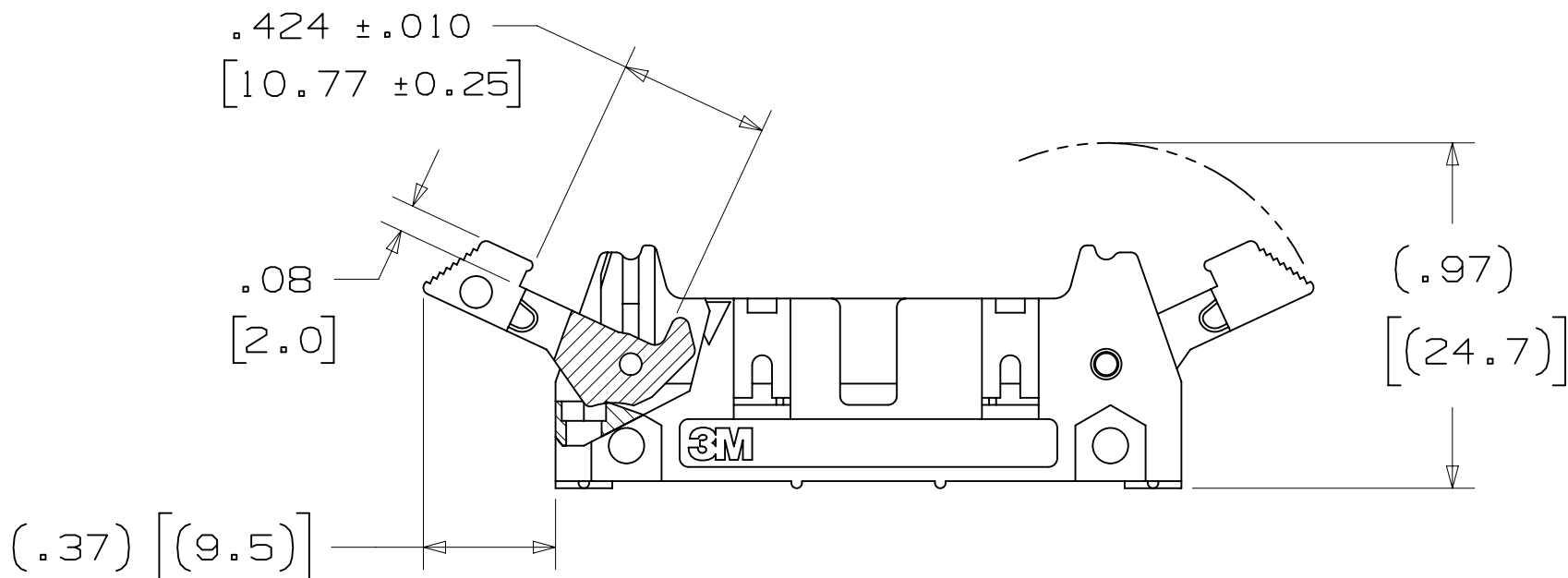


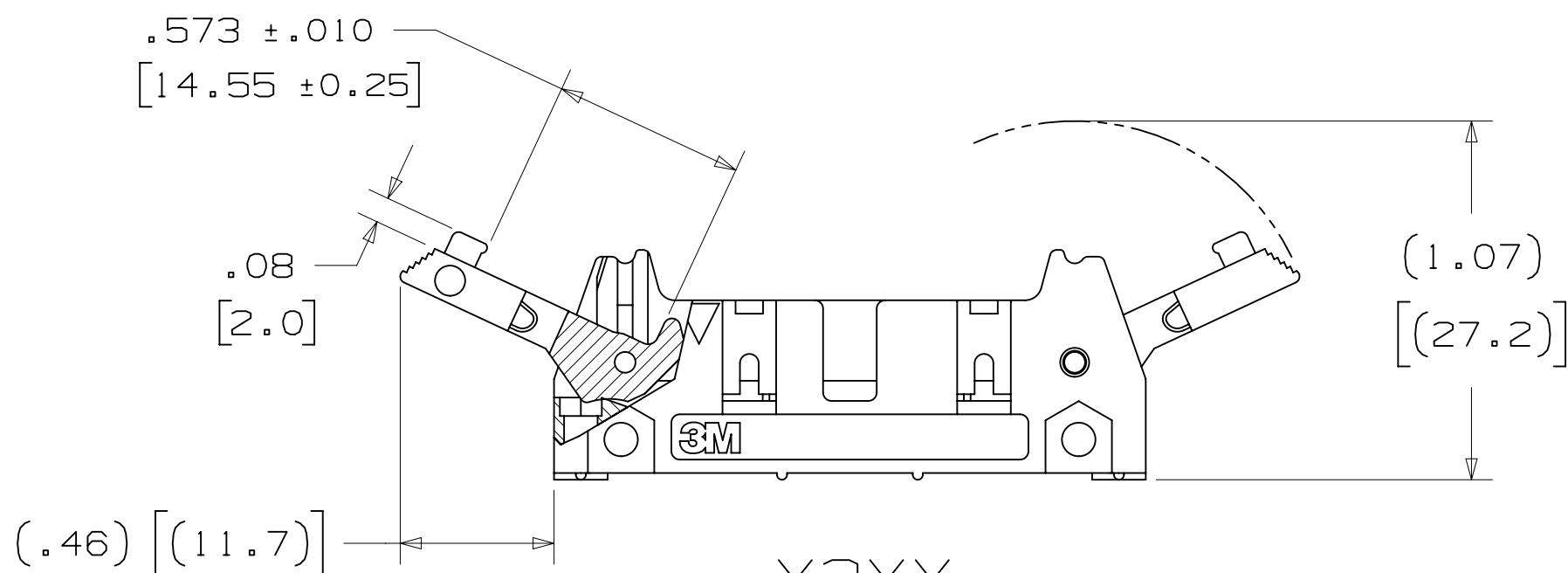
3M™ FOUR-WALL HEADER, 3000 SERIES  
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



-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.

- 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 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).

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

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INFORMATION CALL 800-225-5373

**UL** **US**  
UL FILE NO: E68080

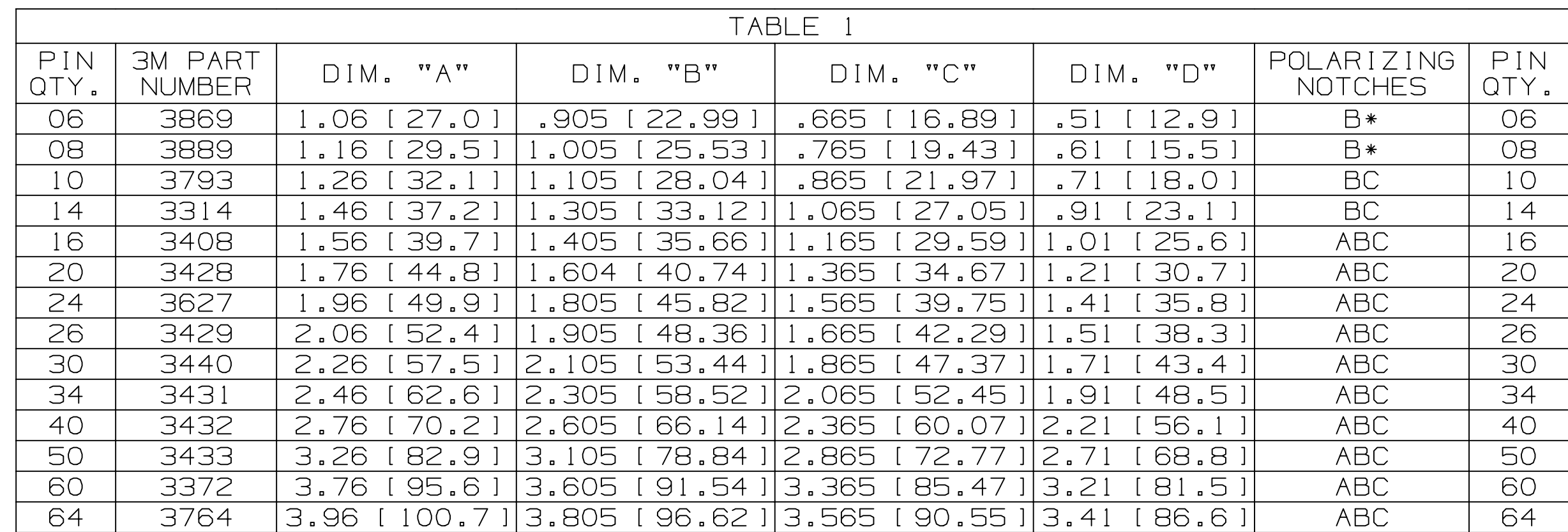
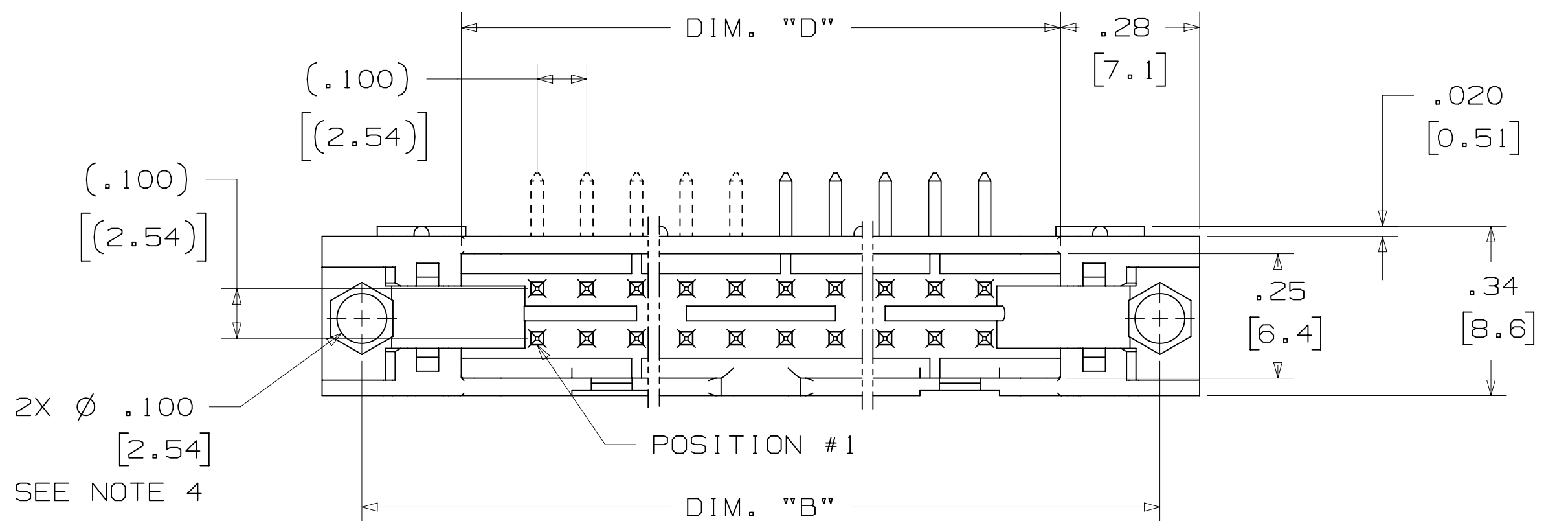
DIMENSIONS: INCHES [MM]  
[MM] IS REF. ONLY

| DESIGN REFERENCE       | NEXT ASSEMBLY                   |
|------------------------|---------------------------------|
| DO NOT SCALE DRAWING   | SCALE 2/1                       |
| THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2009 |
| MAX SURFACE ROUGHNESS  | ENTRANCE SURFACES .000 ±        |
| MARKED ONLY            | ENTRANCE SURFACES .000 ±        |

|                        |                                                          |                            |       |      |
|------------------------|----------------------------------------------------------|----------------------------|-------|------|
| S                      | 60056                                                    | MAR 06,2015                | JNC   | RS   |
| R                      | 56068                                                    | JUL 25,2014                | JNC   | RS   |
| REV                    | ECO                                                      | ISSUE DATE AND DESCRIPTION | DRFT  | CHKD |
| CHKD                   | CASTIGLIONE                                              | DATE JUL 25,2014           | DATE  | DATE |
| CHKD                   | R. SCHERER                                               | DATE SEP 05,2014           | DATE  | DATE |
| DIVISION               | Interconnect Solutions                                   | DIVISION CODE              | EMSD  |      |
| DO NOT SCALE DRAWING   | SCALE 2/1                                                | TOLERANCES EXCEPT AS NOTED |       |      |
| THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2009                          | MILLIMETERS 0 ±            |       |      |
| MAX SURFACE ROUGHNESS  | ENTRANCE SURFACES .000 ±                                 | MILLIMETERS 0 ±            |       |      |
| MARKED ONLY            | ENTRANCE SURFACES .000 ±                                 | MILLIMETERS 0 ±            |       |      |
| TITLE                  | HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA |                            |       |      |
| CAGE NUMBER            | SIZE                                                     | DRAWING NO.                | REV.  |      |
| D                      | 78-5100-0772-3                                           | S                          |       |      |
| MODEL                  | 3000 SERIES                                              | DET                        | LISTS | YES  |
| MODEL                  | 3000 SERIES                                              | DET                        | LISTS | YES  |

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.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                                |  |
|------------------------------------------------------------------------------------------|------------------------|----------------------------------------------|--|
| ACTING CODES                                                                             |                        |                                              |  |
| DIVISION                                                                                 |                        | DIVISION CODE                                |  |
| <b>Interconnect Solutions</b>                                                            |                        | <b>EMSD</b>                                  |  |
| DO NOT SCALE DRAWING                                                                     | SCALE<br>$\frac{4}{1}$ | TOLERANCES EXCEPT AS NOTED                   |  |
|     |                        | INCHES                                       |  |
|                                                                                          |                        | .00 ±<br>.00 ± .01<br>.000 ± .005<br>.0000 ± |  |
| THIRD ANGLE PROJECTION                                                                   |                        | MILLIMETERS                                  |  |
| INTERPRET PER<br>ASME Y14.5 - 2009                                                       |                        | 0 ±<br>.01 ± .3<br>.000 ± .13<br>.000 ±      |  |
| MAX. SURFACE ROUGHNESS                                                                   |                        | ANGLES ±                                     |  |
| <input checked="" type="checkbox"/> ALL SURFACES<br><input type="checkbox"/> MARKED ONLY |                        |                                              |  |

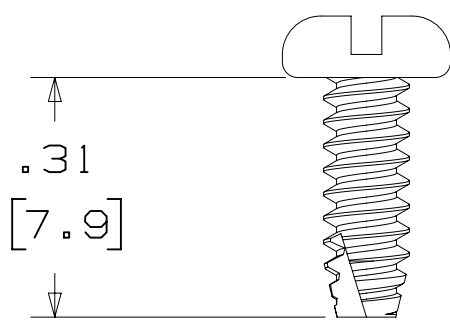
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE




 (.03)  
 [(0.8)]  
 TYP.

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

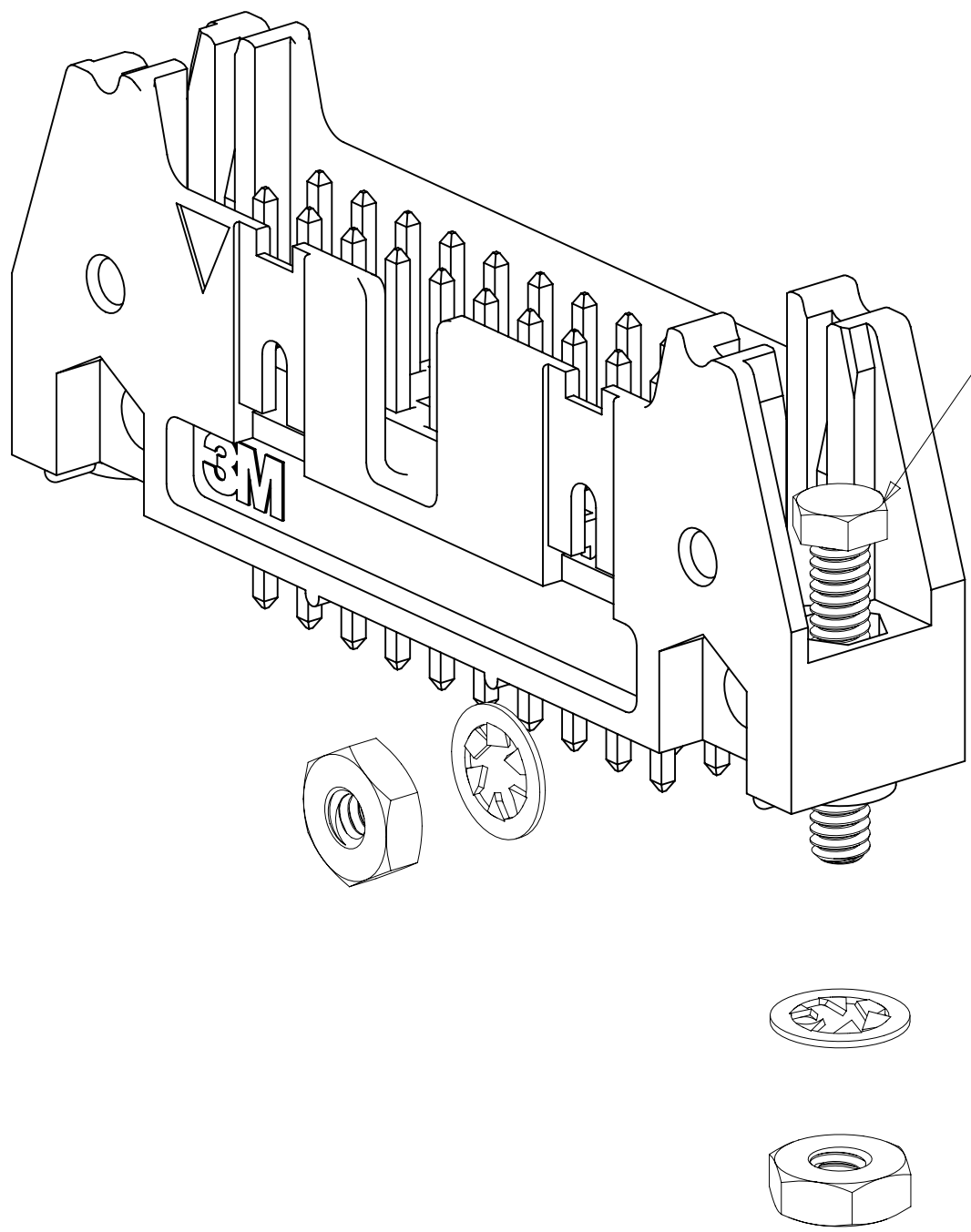
MOUNTING HARDWARE



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



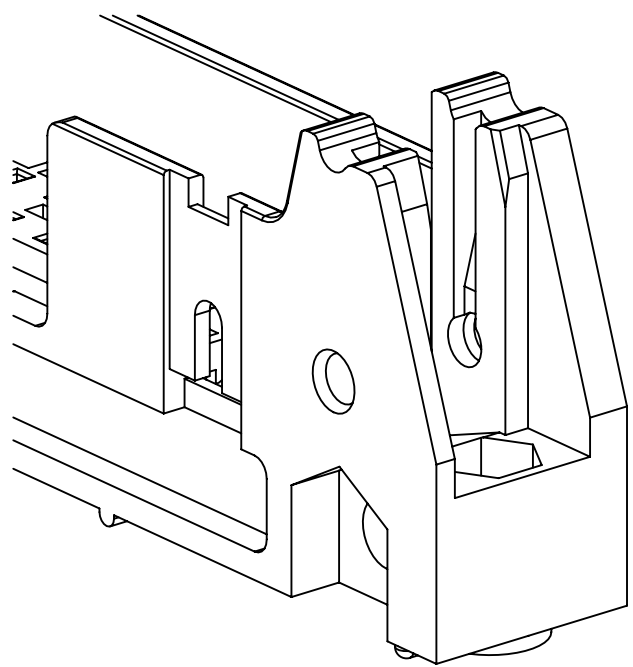
3341-6  
HEX HEAD BOLT, NUT AND WASHER:  
BOLT - #2-56 X 1/2"  
MATERIAL: STAINLESS STEEL



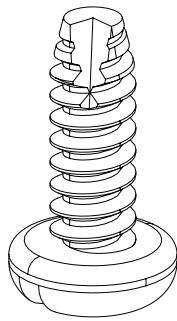
STRAIGHT VERSION INSTALL  
(MUST BE INSERTED PRIOR TO  
LATCH INSTALL)

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

|                        |  |                                 |  |                                                                                                                                                                                                                        |     |                            |  |              |      |
|------------------------|--|---------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------|--|--------------|------|
| DESIGN REFERENCE       |  | NEXT ASSEMBLY                   |  | REV                                                                                                                                                                                                                    | ECO | ISSUE DATE AND DESCRIPTION |  | DRFT         | CHKD |
| XREF                   |  | DPR                             |  | DATE                                                                                                                                                                                                                   |     | MFG                        |  | DATE         |      |
| CODES                  |  | CASTIGLIONE                     |  | JUL 25, 2014                                                                                                                                                                                                           |     | R. SCHERER                 |  | SEP 05, 2014 |      |
| DIVISION               |  | DIVISION CODE                   |  | S                                                                                                                                                                                                                      |     | 60056                      |  | MAR 06, 2015 |      |
| Interconnect Solutions |  | EMSD                            |  | R                                                                                                                                                                                                                      |     | 56068                      |  | JUL 25, 2014 |      |
| DO NOT SCALE DRAWING   |  | SCALE 4 1                       |  | TOLERANCES EXCEPT AS NOTED                                                                                                                                                                                             |     | INCHES                     |  | MILLIMETERS  |      |
| THIRD ANGLE PROJECTION |  | INTERPRET PER ASME Y14.5 - 2009 |  | MAX SURFACE ROUGHNESS                                                                                                                                                                                                  |     | CAGE NUMBER                |  | DRAWING NO.  |      |
| MARKED ONLY            |  | ANGLES                          |  | 3M Center St. Paul, MN 55144                                                                                                                                                                                           |     | D 78-5100-0772-3           |  | REV. S       |      |
|                        |  |                                 |  | © 3M COPYRIGHT 2015                                                                                                                                                                                                    |     | MODEL 3000 SERIES          |  | DET. YES NO  |      |
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