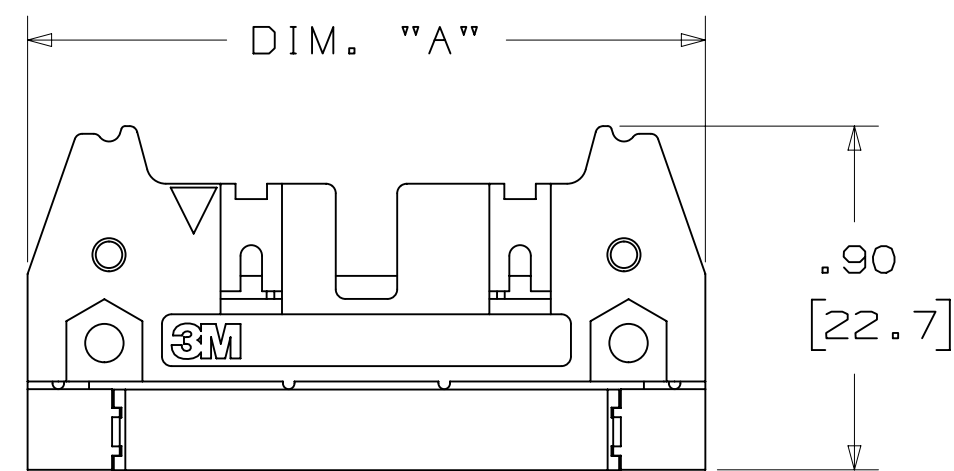
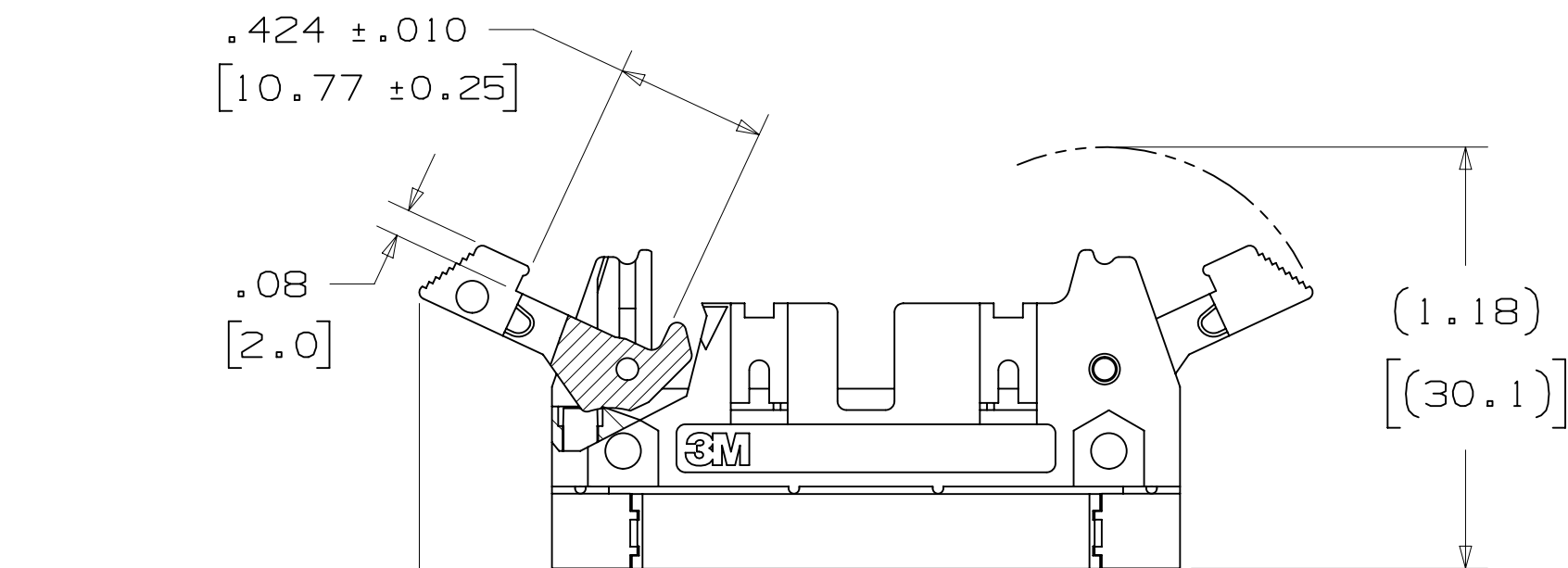


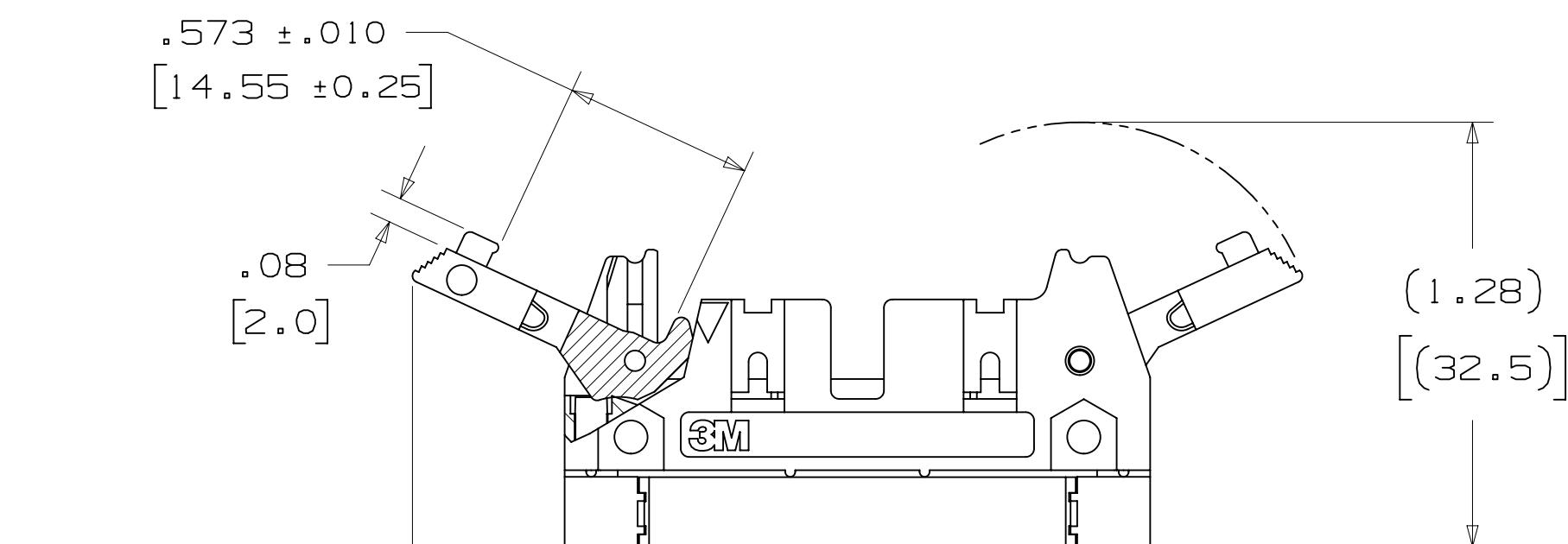
## .100" X .100" LATCH/EJECTOR, RIGHT ANGLE



-DOOX  
HEADER WITHOUT LATCH EJECTOR



(.37) [(9.5)]  -D20X  
HEADER WITH SHORT LATCH EJECTOR  
FOR 3M SOCKETS WITHOUT STRAIN RELIEF



- D30X  
HEADER WITH LONG LATCH EJECTOR  
FOR 3M SOCKETS WITH STRAIN RELIEF

X3XXX-DXXXXX

3M PART NUMBER:  
(SEE TABLE 1)

```
- TAIL:
02 = FOR .062 [ 1.57 ] THICK BOARD
03 = FOR .094 TO .125 [ 2.39 TO 3.18 ] THICK BOARD
```

- 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)

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

- \* STACKED PINS CONSERVE SPACE ON THE CIRCUIT BOARD ALLOWING HIGHER DENSITY PACKAGING.
- \* PIN QUANTITY TO 128 GIVES DESIGN FLEXIBILITY WITH LATCHING.
- \* "HDI" ALTERNATIVE.
- \* THREE-WALL FITS IN VME BOARD STACKING CRITERIA.
- \* ACCEPTS STANDARD IDC SOCKETS.
- \* MATES WITH STANDARD FLAT CABLE HARNESSSES.
- \* HIGH TEMPERATURE INSULATOR SUITABLE FOR "NO LEAD" SOLDERING OPERATIONS.
- \* SUITABLE FOR REFLOW SOLDERING USING "PASTE IN HOLE" TECHNIQUES.

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

2 ELECTRICAL :

CURRENT RATING: 1A (EIA 364-70)  
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)

## NOTES

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.

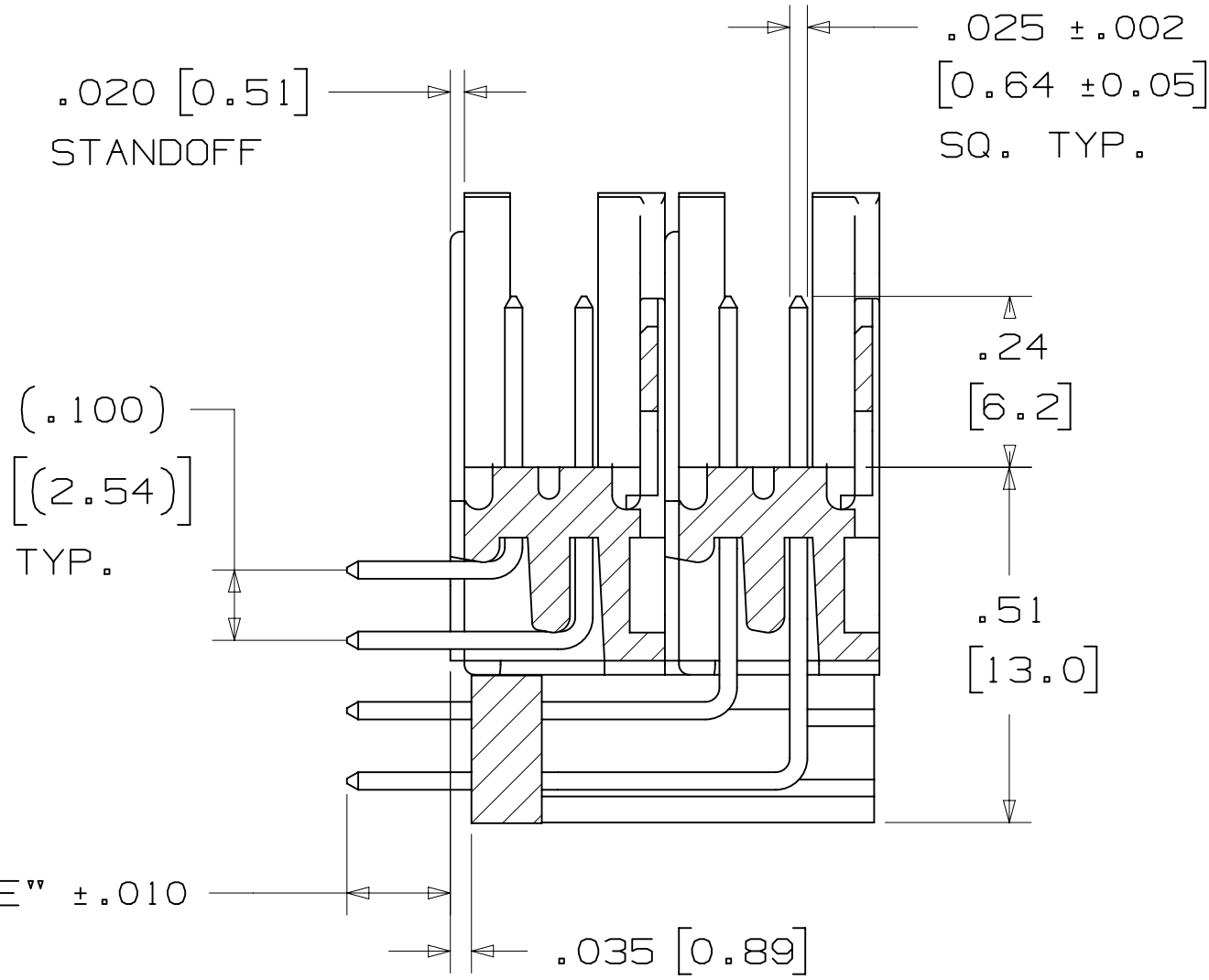
3 NOTCHES A & C WILL ACCOMODATE  
3M POLARIZING KEY: N3518.

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.

|                                        |  |                                              |  |                                                            |  |                                                                                                                                                                                                                        |  |                                                                     |  |
|----------------------------------------|--|----------------------------------------------|--|------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|
| K                                      |  | 60056                                        |  | MAR 06, 2015                                               |  | JNC                                                                                                                                                                                                                    |  | RS                                                                  |  |
| J                                      |  | 56068                                        |  | AUG 05, 2014                                               |  | JNC                                                                                                                                                                                                                    |  | RS                                                                  |  |
|                                        |  |                                              |  | REVISED AND REDRAWN                                        |  |                                                                                                                                                                                                                        |  |                                                                     |  |
| REV                                    |  | ECO                                          |  | ISSUE DATE AND DESCRIPTION                                 |  | DRFT                                                                                                                                                                                                                   |  | CHKD                                                                |  |
| DFT                                    |  | CAST                                         |  | DATE                                                       |  | MFG                                                                                                                                                                                                                    |  | DATE                                                                |  |
| 1                                      |  | 0                                            |  | 05, 2014                                                   |  |                                                                                                                                                                                                                        |  |                                                                     |  |
| CHKD                                   |  |                                              |  | DATE                                                       |  | APPROVAL                                                                                                                                                                                                               |  | DATE                                                                |  |
|                                        |  |                                              |  |                                                            |  | S. SCHERER                                                                                                                                                                                                             |  | SEP 05, 2014                                                        |  |
| DIVISION                               |  | DIVISION CODE                                |  | © 3M COPYRIGHT 2015                                        |  |                                                                                                                                                                                                                        |  |                                                                     |  |
| Interconnect Solutions                 |  | EMSD                                         |  | 3M Center<br>St. Paul,<br>MN 55144                         |  | This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved. |  |                                                                     |  |
| DO NOT SCALE DRAWING                   |  | SCALE $\frac{2}{1}$                          |  | TOLERANCES EXCEPT AS NOTED                                 |  |                                                                                                                                                                                                                        |  |                                                                     |  |
|                                        |  | INCHES                                       |  | TITLE                                                      |  |                                                                                                                                                                                                                        |  |                                                                     |  |
| THIRD ANGLE PROJECTION                 |  | .00 ±<br>.00 ± .01<br>.000 ± .005<br>.0000 ± |  | HEADER, 3-WALL,<br>CONDO, .100 X .100<br>LATCH/EJECTOR, RA |  |                                                                                                                                                                                                                        |  |                                                                     |  |
| INTERPRET PER ASME Y14.5 - 2009        |  | MILLIMETERS                                  |  | CAGE NUMBER                                                |  | SIZE                                                                                                                                                                                                                   |  | DRAWING NO.                                                         |  |
| MAX SURFACE ROUGHNESS                  |  | .00 ±<br>.00 ± .3<br>.00 ± .13<br>.000 ±     |  | D                                                          |  | 5100-0773-1                                                                                                                                                                                                            |  | K                                                                   |  |
| MAX SURFACES                           |  | ANGLE                                        |  | MODEL                                                      |  | 3000 SERIES                                                                                                                                                                                                            |  | DET                                                                 |  |
| ✓ <input type="checkbox"/> MARKED ONLY |  |                                              |  |                                                            |  |                                                                                                                                                                                                                        |  | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |  |
|                                        |  |                                              |  |                                                            |  |                                                                                                                                                                                                                        |  | SHT 1 OF 3                                                          |  |

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

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

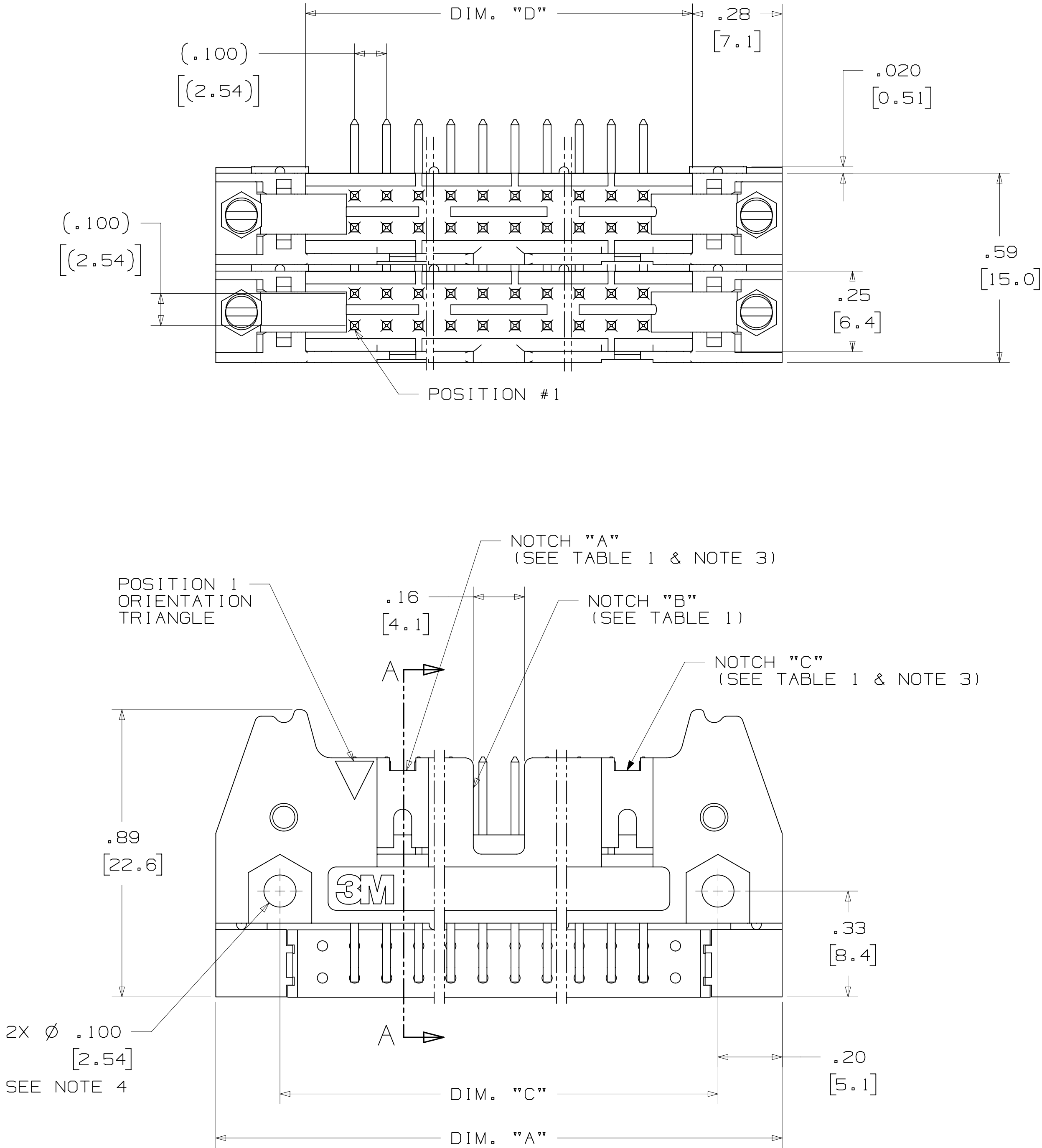


SECTION A - A

| TABLE 1  |                |                |                 |               |                    |          |
|----------|----------------|----------------|-----------------|---------------|--------------------|----------|
| PIN QTY. | 3M PART NUMBER | DIM. "A"       | DIM. "C"        | DIM. "D"      | POLARIZING NOTCHES | PIN QTY. |
| 20       | 3793           | 1.26 [ 32.1 ]  | .865 [ 21.97 ]  | .71 [ 18.0 ]  | BC                 | 20       |
| 28       | 3314           | 1.46 [ 37.2 ]  | 1.065 [ 27.05 ] | .91 [ 23.1 ]  | BC                 | 28       |
| 32       | 3408           | 1.56 [ 39.7 ]  | 1.165 [ 29.59 ] | 1.01 [ 25.6 ] | ABC                | 32       |
| 40       | 3428           | 1.76 [ 44.8 ]  | 1.365 [ 34.67 ] | 1.21 [ 30.7 ] | ABC                | 40       |
| 48       | 3627           | 1.96 [ 49.9 ]  | 1.565 [ 39.75 ] | 1.41 [ 35.8 ] | ABC                | 48       |
| 52       | 3429           | 2.06 [ 52.4 ]  | 1.665 [ 42.29 ] | 1.51 [ 38.3 ] | ABC                | 52       |
| 60       | 3440           | 2.26 [ 57.5 ]  | 1.865 [ 47.37 ] | 1.71 [ 43.4 ] | ABC                | 60       |
| 68       | 3431           | 2.46 [ 62.6 ]  | 2.065 [ 52.45 ] | 1.91 [ 48.5 ] | ABC                | 68       |
| 80       | 3432           | 2.76 [ 70.2 ]  | 2.365 [ 60.07 ] | 2.21 [ 56.1 ] | ABC                | 80       |
| 100      | 3433           | 3.26 [ 82.9 ]  | 2.865 [ 72.77 ] | 2.71 [ 68.8 ] | ABC                | 100      |
| 120      | 3372           | 3.76 [ 95.6 ]  | 3.365 [ 85.47 ] | 3.21 [ 81.5 ] | ABC                | 120      |
| 128      | 3764           | 3.96 [ 100.7 ] | 3.565 [ 90.55 ] | 3.41 [ 86.6 ] | ABC                | 128      |

| TABLE 2               |              |               |
|-----------------------|--------------|---------------|
| 3M PART NUMBER SUFFIX | CONTACT TAIL | DIM. "E"      |
| -XX02                 | 02           | .112 [ 2.84 ] |
| -XX03                 | 03           | .155 [ 3.94 ] |

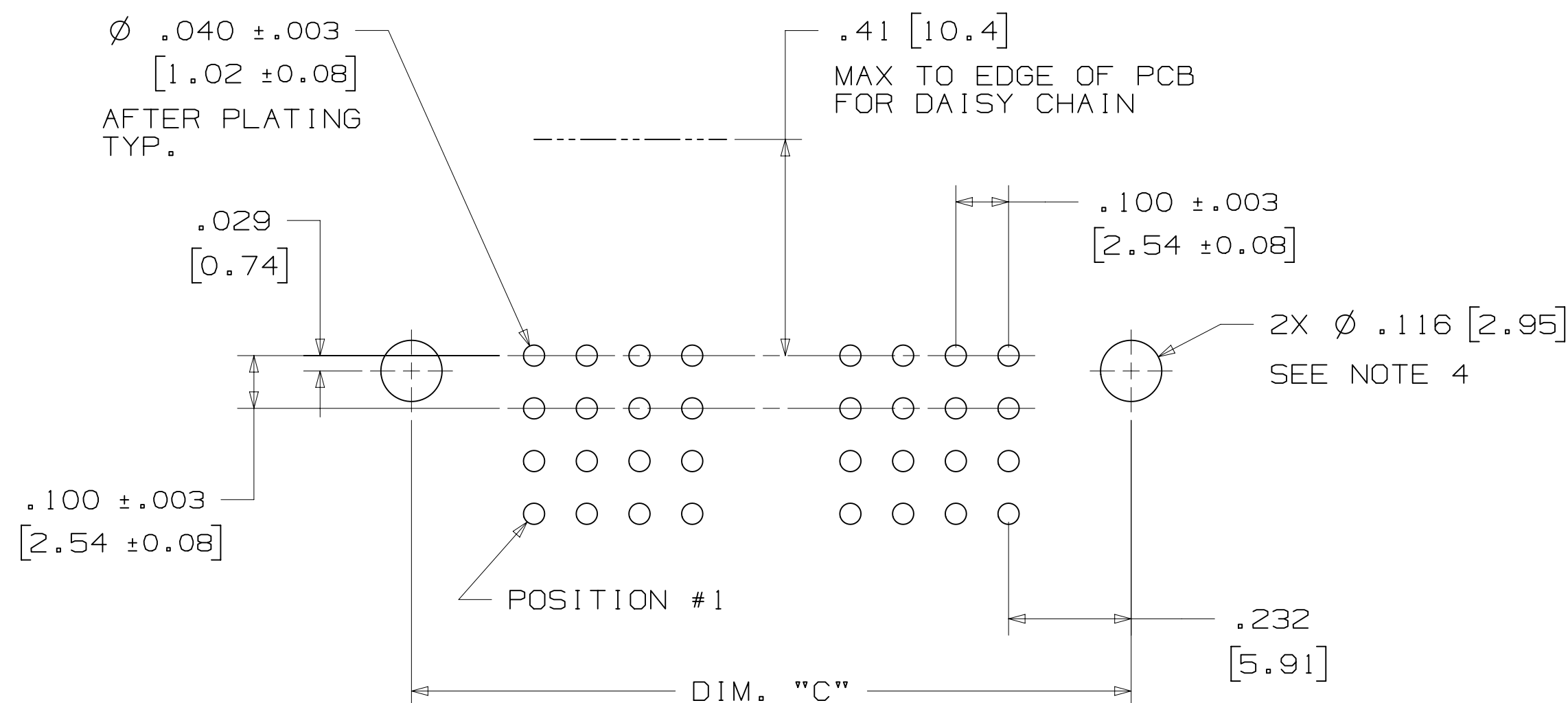
NOTE:  
.112 [ 2.84 ] TAIL LENGTH SUITABLE FOR  
.062 [ 1.57 ] THICK PC BOARD.



|                                 |             |                            |      |              |
|---------------------------------|-------------|----------------------------|------|--------------|
| DESIGN REFERENCE                |             | NEXT ASSEMBLY              |      |              |
| REV                             | ECO         | ISSUE DATE AND DESCRIPTION | DRFT | CHKD         |
| DR                              | CASTIGLIONE | DATE                       | MFG  | DATE         |
| CHKD                            |             | AUG 05, 2014               | APPR | SEP 05, 2014 |
| DIVISION                        |             | DIVISION CODE              |      |              |
| Interconnect Solutions          |             | EMSD                       |      |              |
| DO NOT SCALE DRAWING            | SCALE       | TOLERANCES EXCEPT AS NOTED |      |              |
|                                 | 4/1         |                            |      |              |
| THIRD ANGLE PROJECTION          | INCHES      |                            |      |              |
|                                 | .00 ± .01   |                            |      |              |
|                                 | .000 ± .005 |                            |      |              |
|                                 | .0000 ±     |                            |      |              |
| INTERPRET PER ASME Y14.5 - 2009 | MILLIMETERS |                            |      |              |
|                                 | 0 ±         |                            |      |              |
|                                 | .0 ± .3     |                            |      |              |
|                                 | .00 ± .13   |                            |      |              |
|                                 | .000 ±      |                            |      |              |
| MAX SURFACE ROUGHNESS           | ANGLES      |                            |      |              |
| 12.5 SURFACES                   |             |                            |      |              |
| MARKED ONLY                     |             |                            |      |              |
| CAGE NUMBER                     |             | DRAWING NO.                |      | REV.         |
| D78-5100-0773-1                 |             | K                          |      |              |
| MODEL                           |             | 3000 SERIES                |      | DET          |
|                                 |             | LISTS                      |      | YES          |
|                                 |             | XNO                        |      | SHT 2 OF 3   |

HEADER, 3-WALL,  
CONDO, .100 X .100  
LATCH/EJECTOR, RA

## .100" X .100" LATCH/EJECTOR, RIGHT ANGLE

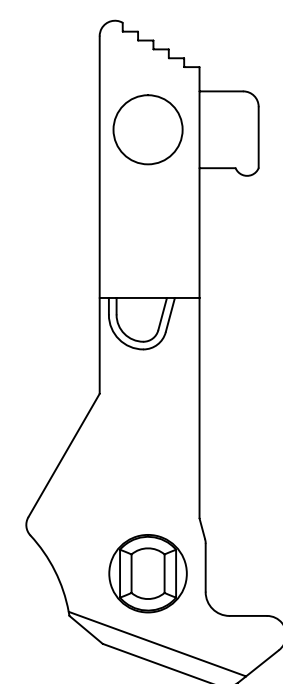


## PART CUSTOMIZATION

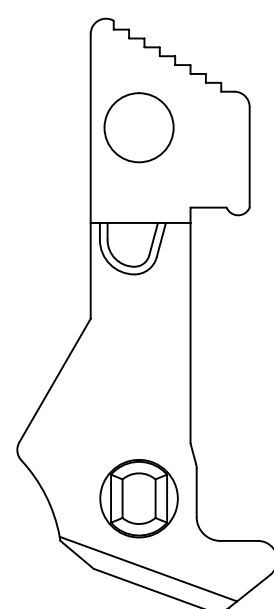
3M HAS SEVERAL CAPABILITIES THAT CAN PROVIDE A PART TAILORED TO YOUR SPECIFIC NEEDS. ASK YOUR 3M SALES REPRESENTATIVE OR CUSTOMER SERVICE FOR MORE DETAILS.

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.

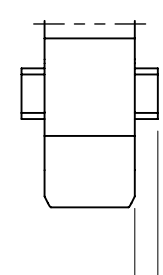
| MATERIAL         | SHORT LATCH | LONG LATCH | LATCH STYLE | COLOR |
|------------------|-------------|------------|-------------|-------|
| HIGH TEMP. (PCT) | N3505-2B    | N3505-3B   | ROLL PIN    | BLACK |
| HIGH TEMP. (PPA) | N3505-30B   | N3505-31B  | SNAP-IN     | BLACK |



LONG



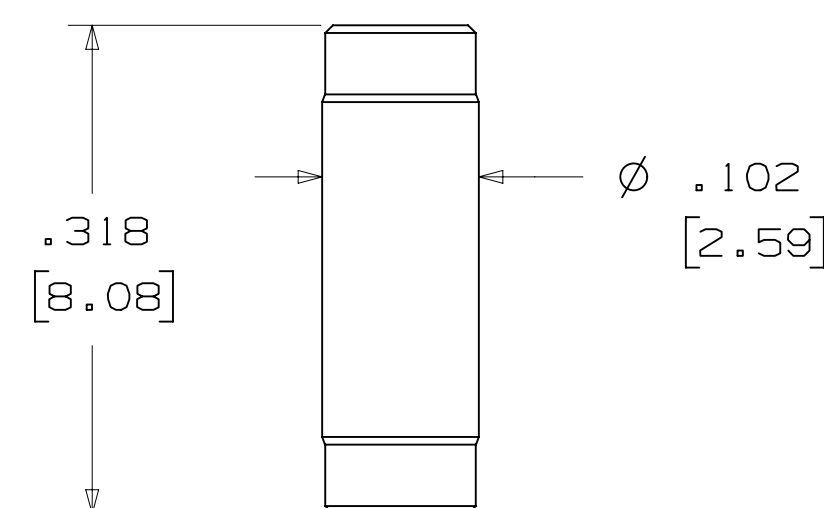
SHORT



-. (.03)  
[(0.8)]  
TYP.

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

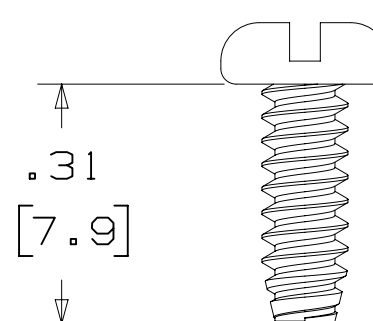
## POLARIZING POST



|             |          |       |
|-------------|----------|-------|
| 3M PART NO. | MATERIAL | COLOR |
| 3201-4      | LCP      | BLACK |

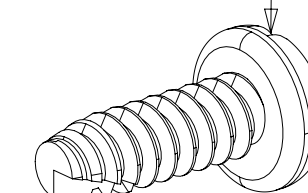
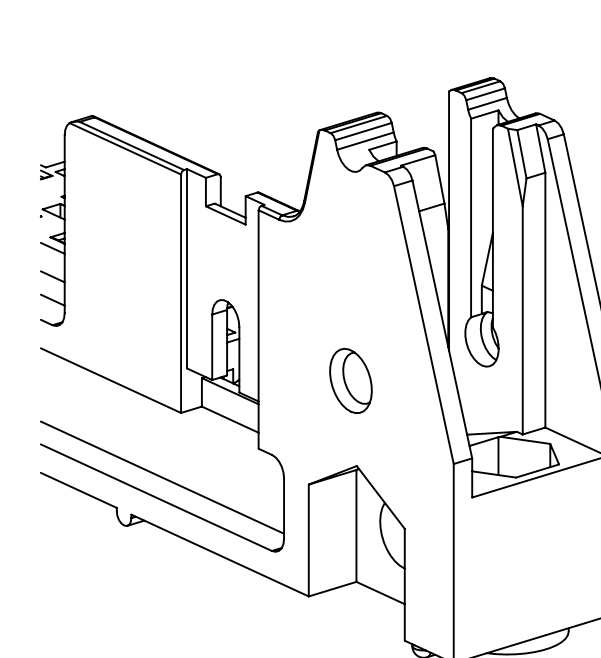
NOTE:  
INSERT POST INTO ONE MOUNTING  
HARDWARE HOLE ON BOTTOM OF HEADER.  
SET POST TO PROTRUDE .115 [2.92]

## MOUNTING HARDWARE



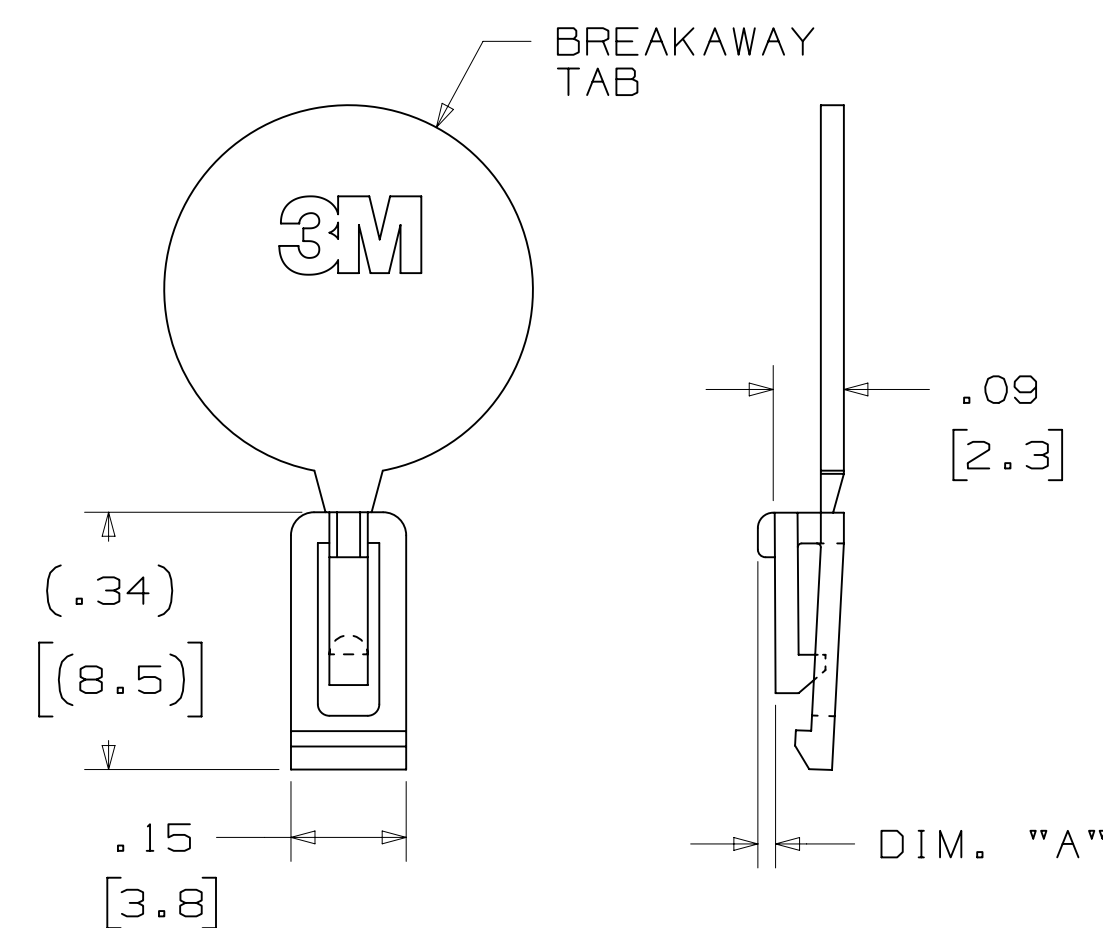
3341-5

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



— #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.

## POLARIZING KEY



|             |          |       |          |
|-------------|----------|-------|----------|
| 3M PART NO. | MATERIAL | COLOR | DIM. "A" |
| N3518       | LCP      | BLACK | .02      |

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

|                                 |       |                                                                                                                                                                                                                     |                  |                     |
|---------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|
| K                               | 60056 | MAR 06,2015                                                                                                                                                                                                         | JNC              | RS                  |
| J                               | 56068 | AUG 05,2014<br>REVISED AND REDRAWN                                                                                                                                                                                  | JNC              | RS                  |
| DESIGN REFERENCE                |       | NEXT ASSEMBLY                                                                                                                                                                                                       |                  |                     |
| REV                             | ECO   | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                          | DFT              | CHKD                |
| <del>ACCESS CODES</del>         |       | DFT CASTIGLIONE                                                                                                                                                                                                     | DATE AUG 05,2014 | MPG                 |
|                                 |       | CHKD                                                                                                                                                                                                                | DATE             | APPROVAL R. SCHERER |
|                                 |       |                                                                                                                                                                                                                     | DATE SEP 05,2014 |                     |
| DIVISION Interconnect Solutions |       | DIVISION CODE EMSD                                                                                                                                                                                                  |                  |                     |
| DO NOT SCALE DRAWING            |       | TOLERANCES EXCEPT AS NOTED                                                                                                                                                                                          |                  |                     |
| THIRD ANGLE PROJECTION          |       | INCHES                                                                                                                                                                                                              |                  |                     |
| INTERPRET PER ASME Y14.5 - 2009 |       | MILLIMETERS                                                                                                                                                                                                         |                  |                     |
| MAX SURFACE ROUGHNESS           |       | FINISH SURFACES                                                                                                                                                                                                     |                  |                     |
| MARKED ONLY                     |       | ANGLES                                                                                                                                                                                                              |                  |                     |
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|                                 |       | TITLE                                                                                                                                                                                                               |                  |                     |
|                                 |       | CAGE NUMBER                                                                                                                                                                                                         |                  |                     |
|                                 |       | SIZE DRAWING NO.                                                                                                                                                                                                    |                  |                     |
|                                 |       | MODEL                                                                                                                                                                                                               |                  |                     |
|                                 |       | DET. TITS OYES XNO SHT 3 OF                                                                                                                                                                                         |                  |                     |