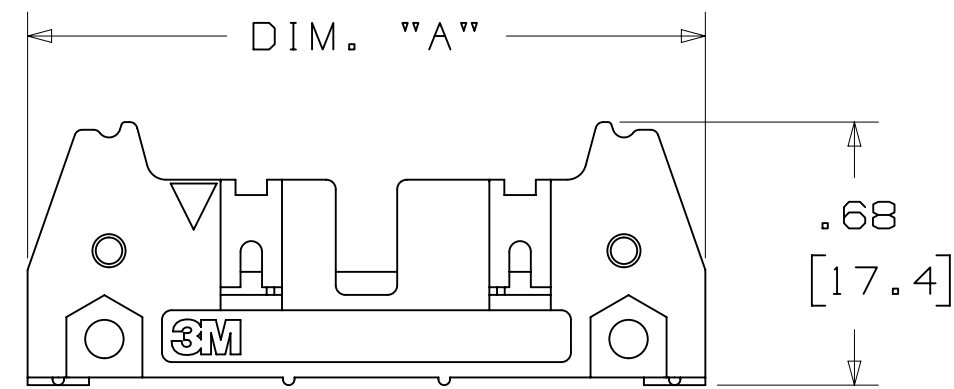


.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



Technical drawing of a 3M Scotch-Bond repair on a metal bracket. The drawing shows a cross-section of the repair with dimensions in inches and millimeters. Dimensions include: .424 ± .010 [10.77 ± 0.25] for the top layer thickness, .08 [2.0] for the adhesive layer thickness, (.97) [(24.7)] for the total height, and a 3M logo on the base.

Technical drawing of a mechanical part with dimensions and tolerances:

- Top left dimension:  $.573 \pm .010$
- Top left dimension in brackets:  $[14.55 \pm 0.25]$
- Left side dimension:  $.08$
- Left side dimension in brackets:  $[2.0]$
- Right side dimension:  $(1.07)$
- Right side dimension in brackets:  $[(27.2)]$

**UL**  
UL FILE NO: E68080

3M™ THREE-WALL HEADER, 3000 SERIES

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



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



DESIGN REFERENCE  
NEXT ASSEMBLY

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

MAX SURFACE ROUGHNESS  
LISTED SURFACES  
MARKED ONLY

INTERCONNECT SOLUTIONS

SCALE 4/1

INTERPRET PER ASME Y14.5 - 2009

TOLERANCES EXCEPT AS NOTED

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

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

ANGLES

3M

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3M Center  
St. Paul,  
MN 55144

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TITLE  
HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA

CAGE NUMBER  
D78-5100-0771-5

MODEL  
3000 SERIES

REV. ECO  
DATE  
AUG 05, 2014

ISSUE DATE AND DESCRIPTION  
REVISED AND REDRAWN

DRFT  
DATE  
SEP 05, 2014

CHKD  
DATE  
SEP 05, 2014

APPR  
R. SCHERER

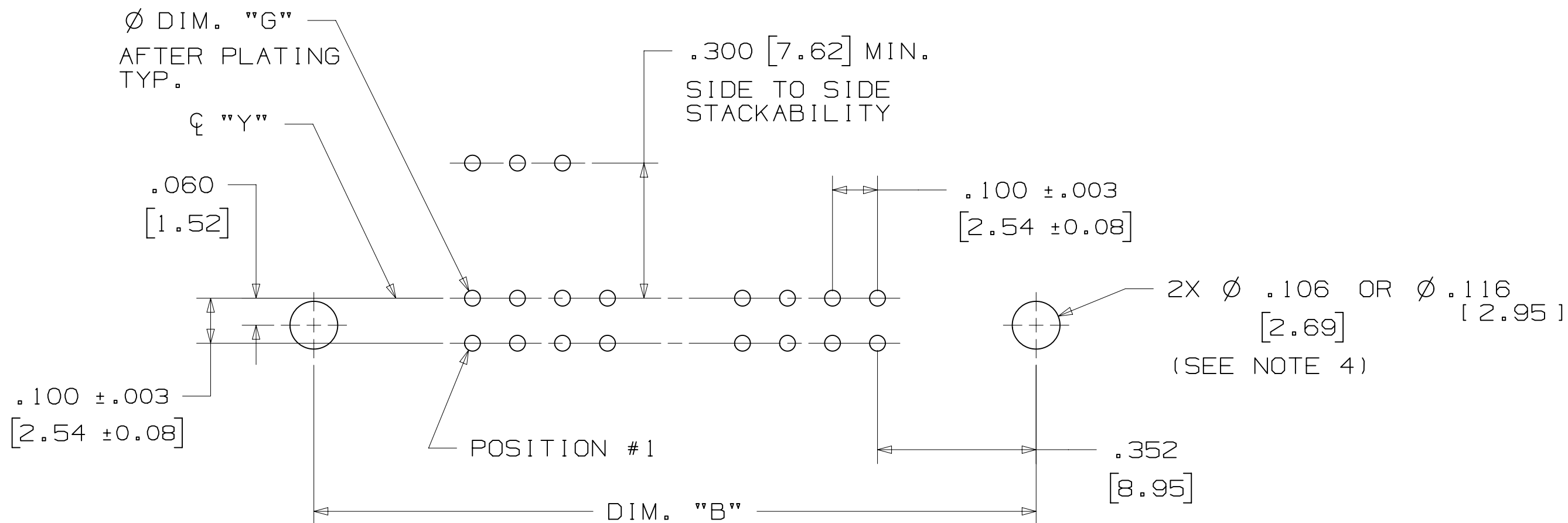
H 60056  
MAR 06, 2015  
REVISE ORDERING NUMBER

G 56068  
AUG 05, 2014  
REVISED AND REDRAWN

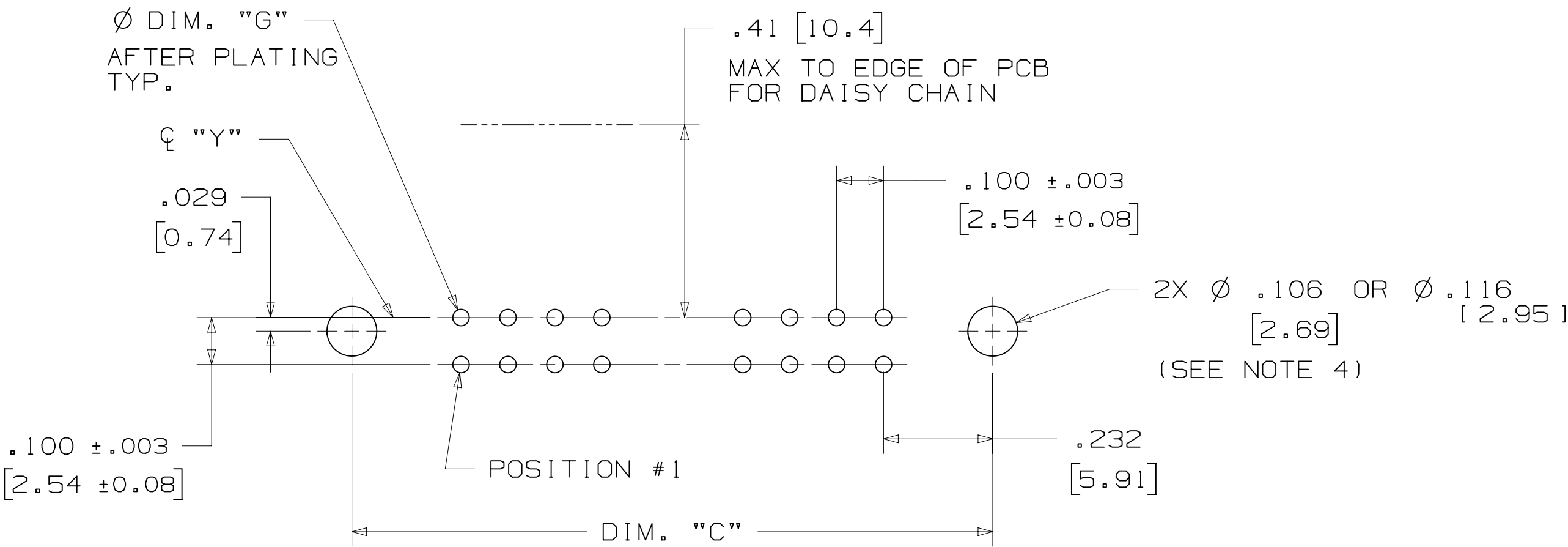
JNC  
DATE

RS  
DATE

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



RECOMMENDED MOUNTING HOLE PATTERN  
(STRAIGHT VERSION)



RECOMMENDED MOUNTING HOLE PATTERN  
(RIGHT ANGLE VERSION)

PART CUSTOMIZATION

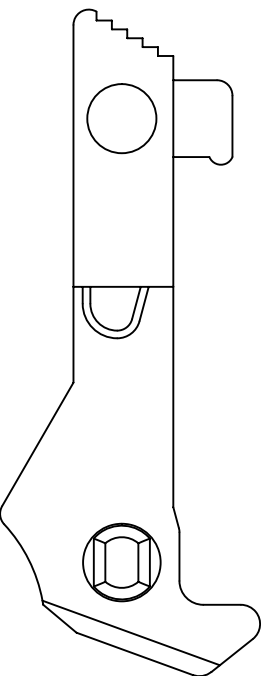
THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

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.

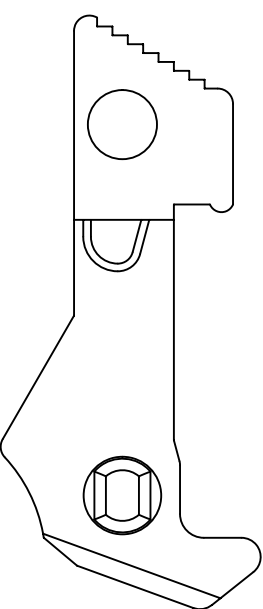
BOTH SNAP-IN AND ROLL PIN LATCHES MAY BE ORDERED SEPARATELY. SNAP-IN AND ROLL PIN STYLE LATCHES ARE DIMENSIONALLY AND FUNCTIONALLY EQUIVALENT. IF ORDERING SNAP-IN OR ROLL PIN STYLE LATCHES SEPARATELY, PLEASE USE THE BELOW CHART.

| 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 |

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

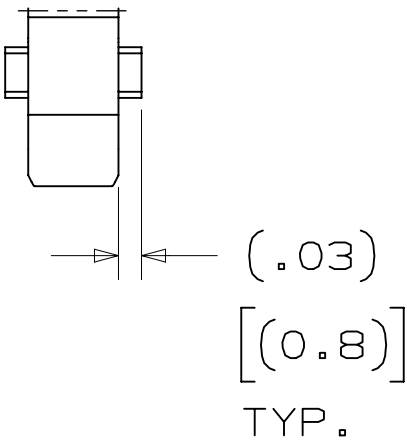


LONG



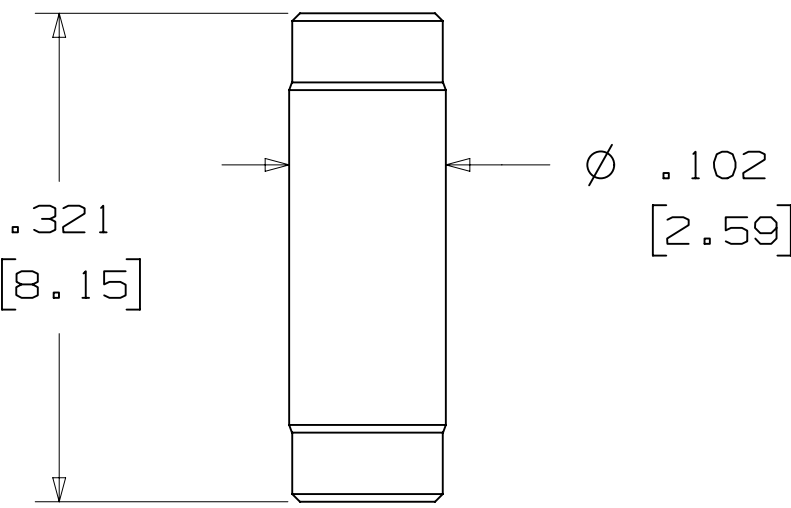
SHORT

SNAP-IN LATCHES



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 |

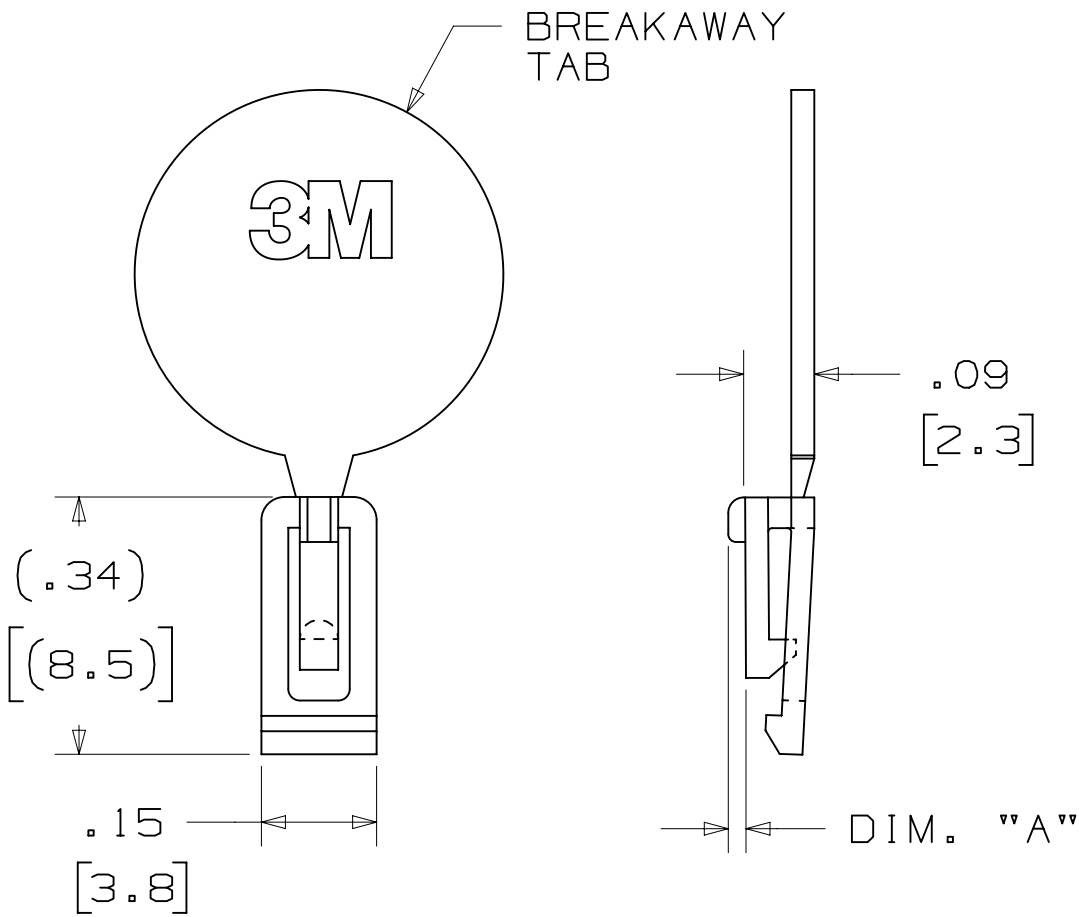
NOTE:  
INSERT POST INTO ONE MOUNTING HARDWARE HOLE ON BOTTOM OF HEADER. SET POST TO PROTRUDE .115 [2.92]

(K2) OPTION

| 2500 & 3000 SERIES SHROUDED HEADER |                     |                  |    |    |    |
|------------------------------------|---------------------|------------------|----|----|----|
| TOTAL NO. OF PINS                  | NO. OF TAILS KINKED | POSITIONS KINKED |    |    |    |
| 10                                 | 4                   | 3                | 4  | 7  | 8  |
| 14                                 | 4                   | 3                | 4  | 11 | 12 |
| 16                                 | 4                   | 3                | 4  | 13 | 14 |
| 20                                 | 4                   | 3                | 4  | 17 | 18 |
| 26                                 | 4                   | 3                | 4  | 23 | 24 |
| 34                                 | 4                   | 7                | 8  | 27 | 28 |
| 40                                 | 4                   | 7                | 8  | 33 | 34 |
| 50                                 | 4                   | 7                | 8  | 43 | 44 |
| 60                                 | 4                   | 11               | 12 | 49 | 50 |
| 64                                 | 4                   | 11               | 12 | 53 | 54 |

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

POLARIZING KEY



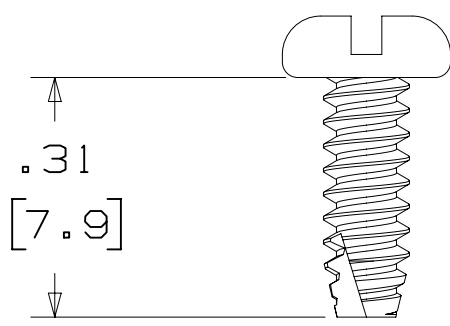
| 3M PART NO. | MATERIAL | COLOR | DIM. "A" |
|-------------|----------|-------|----------|
| N3518       | LCP      | BLACK | .02      |

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

|                                 |                        |                            |                                    |                                                                                                                                                                                                                                            |             |                                                          |
|---------------------------------|------------------------|----------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------|
| DESIGN REFERENCE                | NEXT ASSEMBLY          | REV                        | ECO                                | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                                                 | DRFT        | CHKD                                                     |
| DO NOT SCALE DRAWING            | SCALE 4/1              | TOLERANCES EXCEPT AS NOTED | INCHES .00 ±.01 .000 ±.005 .0000 ± | MILLIMETERS 0 ±.3 .00 ±.13 .000 ±                                                                                                                                                                                                          | MARKED ONLY | ANGLES                                                   |
| INTERPRET PER ASME Y14.5 - 2009 | MAX SURFACE ROUGHNESS  | DET                        | YES                                | NO                                                                                                                                                                                                                                         | SHT 3 OF 4  |                                                          |
| 3M                              | Interconnect Solutions | EMSD                       | 3M Center St. Paul, MN 55144       | © 3M COPYRIGHT 2015 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. | TITLE       | HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA |
| CAGE NUMBER                     | SIZE                   | DRAWING NO.                | REV.                               |                                                                                                                                                                                                                                            |             |                                                          |
| D                               | 78-5100-0771-5         | H                          |                                    |                                                                                                                                                                                                                                            |             |                                                          |
| MODEL                           | 3000 SERIES            | DET                        | YES                                | NO                                                                                                                                                                                                                                         | SHT 3 OF 4  |                                                          |

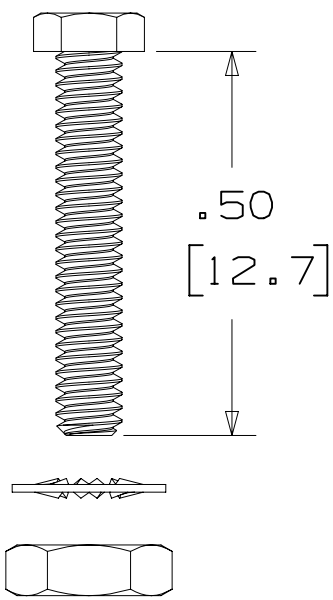
3M™ THREE-WALL HEADER, 3000 SERIES  
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

MOUNTING HARDWARE



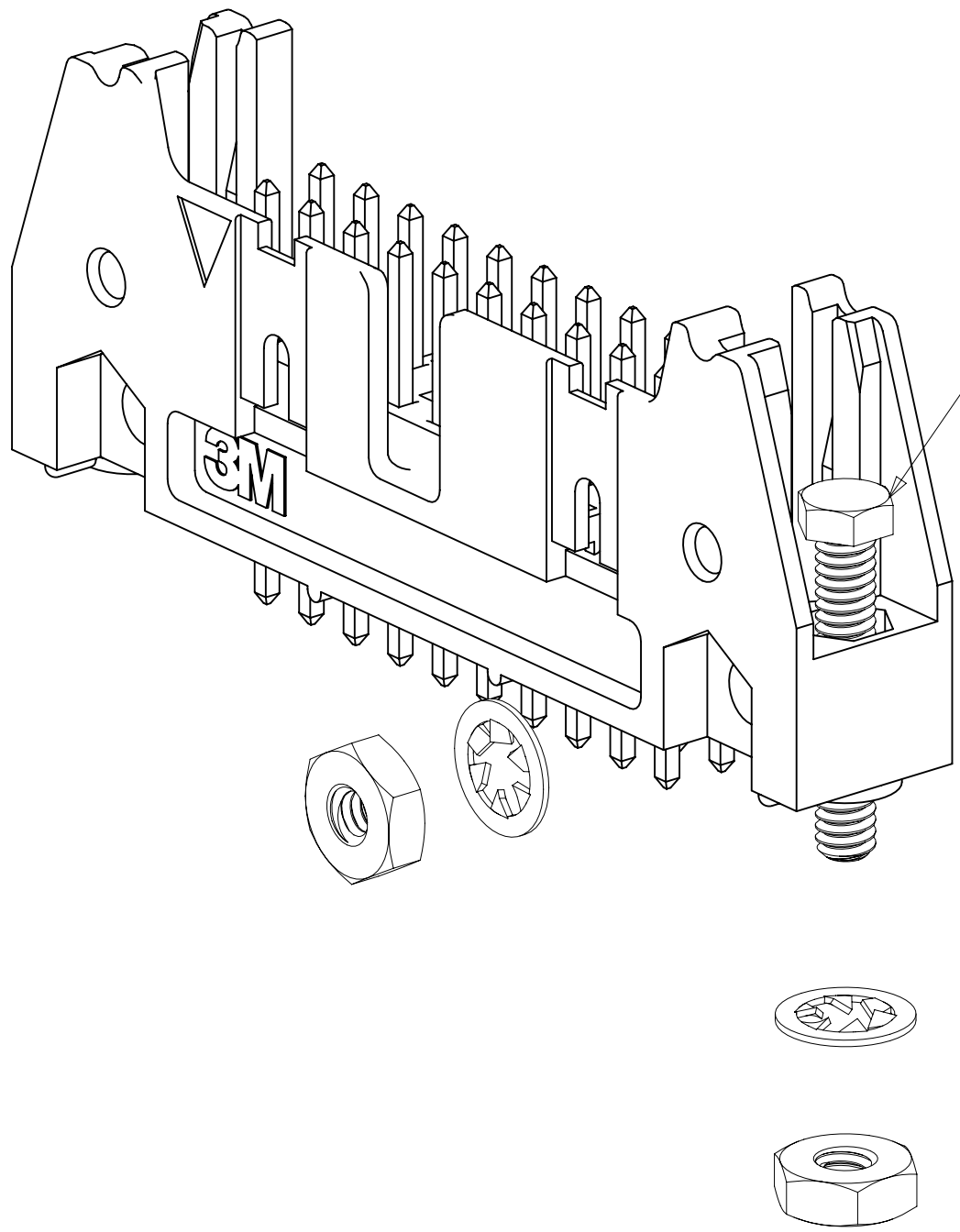
3341-5

(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

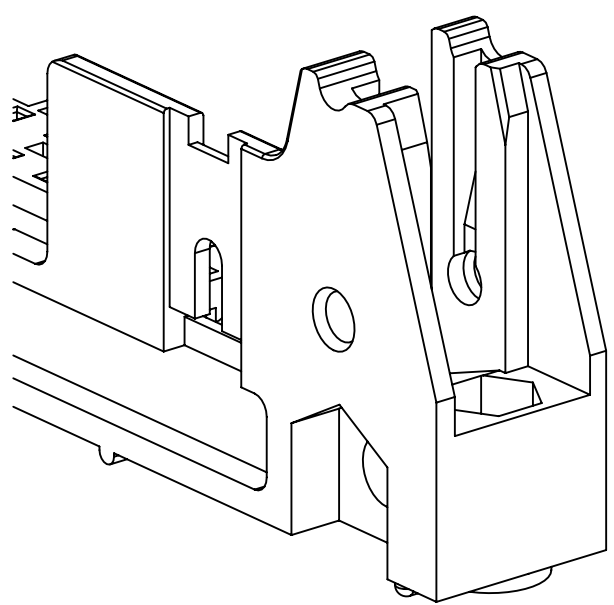


STRAIGHT VERSION INSTALL  
(MUST BE INSERTED PRIOR TO  
LATCH INSTALL)

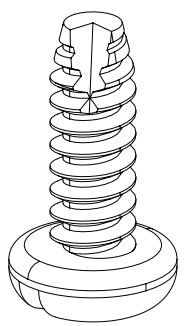
RIGHT ANGLE VERSION INSTALL

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

|                                 |  |               |  |                            |      |                                                                                                                                                                                                                        |            |              |      |
|---------------------------------|--|---------------|--|----------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|------|
| DESIGN REFERENCE                |  | NEXT ASSEMBLY |  | REV                        | ECO  | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                             |            | DRFT         | CHKD |
| XREF                            |  | DPR           |  | CASTIGLIONE                | DATE | AUG 05, 2014                                                                                                                                                                                                           | MFG        | DATE         |      |
| DIVISION                        |  | DIVISION CODE |  | CHKD                       | DATE |                                                                                                                                                                                                                        | APPR       | DATE         |      |
| Interconnect Solutions          |  | EMSD          |  |                            |      |                                                                                                                                                                                                                        | R. SCHERER | SEP 05, 2014 |      |
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| THIRD ANGLE PROJECTION          |  | INCHES        |  | MILLIMETERS                |      | 3M Center St. Paul, MN 55144                                                                                                                                                                                           |            |              |      |
| INTERPRET PER ASME Y14.5 - 2009 |  | .00 ± .01     |  | .00 ± .005                 |      | 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. |            |              |      |
| MAX SURFACE ROUGHNESS           |  | .00 ± .13     |  | .000 ±                     |      | TITLE                                                                                                                                                                                                                  |            |              |      |
| MARKED ONLY                     |  | ANGLES        |  | CAGE NUMBER                |      | HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA                                                                                                                                                               |            |              |      |
|                                 |  |               |  | DRAWING NO.                |      | D 78-5100-0771-5                                                                                                                                                                                                       |            |              |      |
|                                 |  |               |  | REV.                       |      | H                                                                                                                                                                                                                      |            |              |      |
|                                 |  |               |  | MODEL                      |      | 3000 SERIES                                                                                                                                                                                                            |            |              |      |
|                                 |  |               |  | DET                        |      | SHT 4 OF 4                                                                                                                                                                                                             |            |              |      |