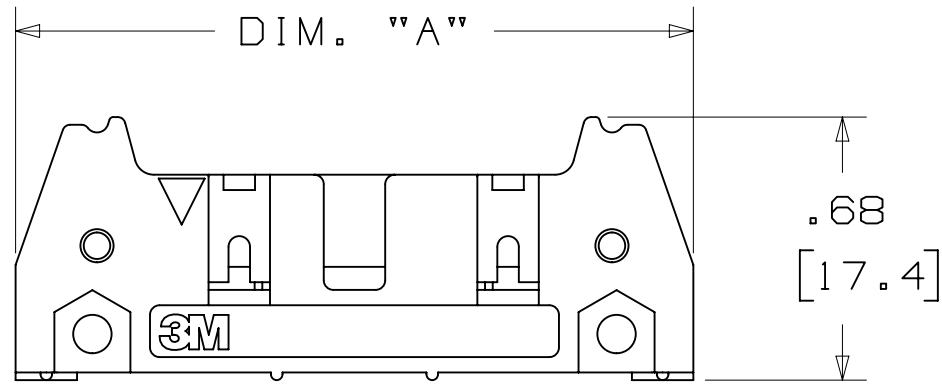
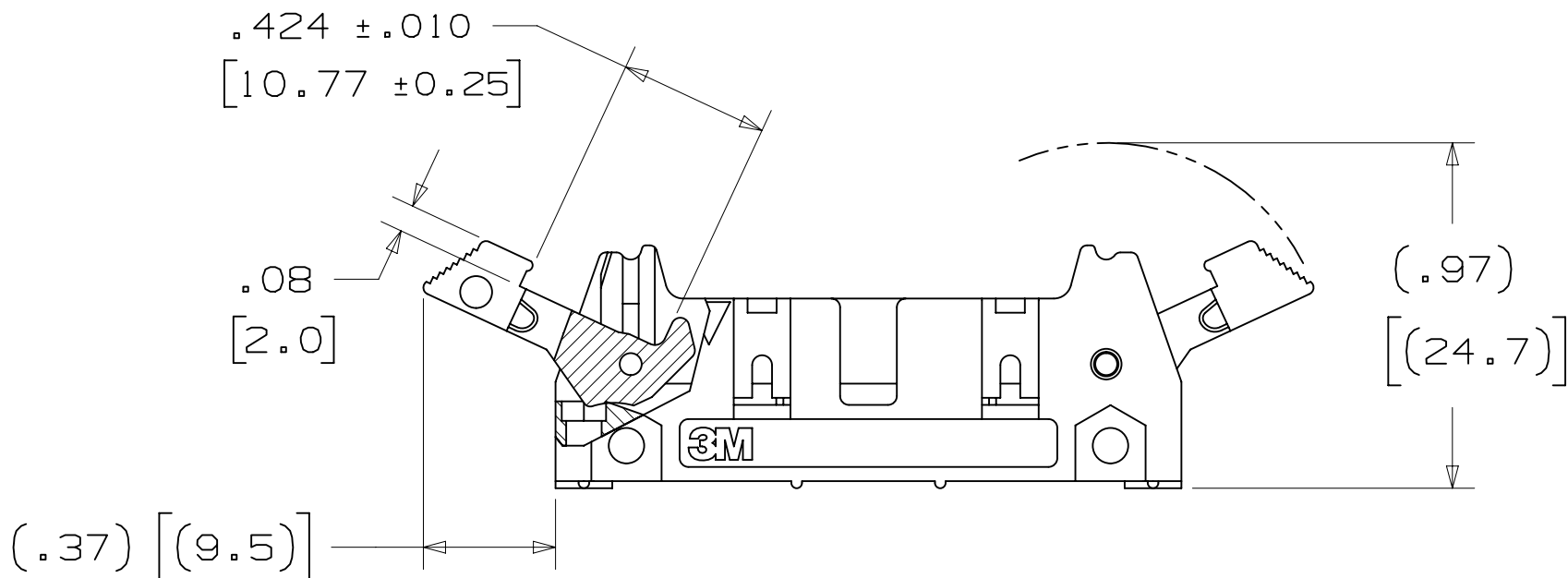


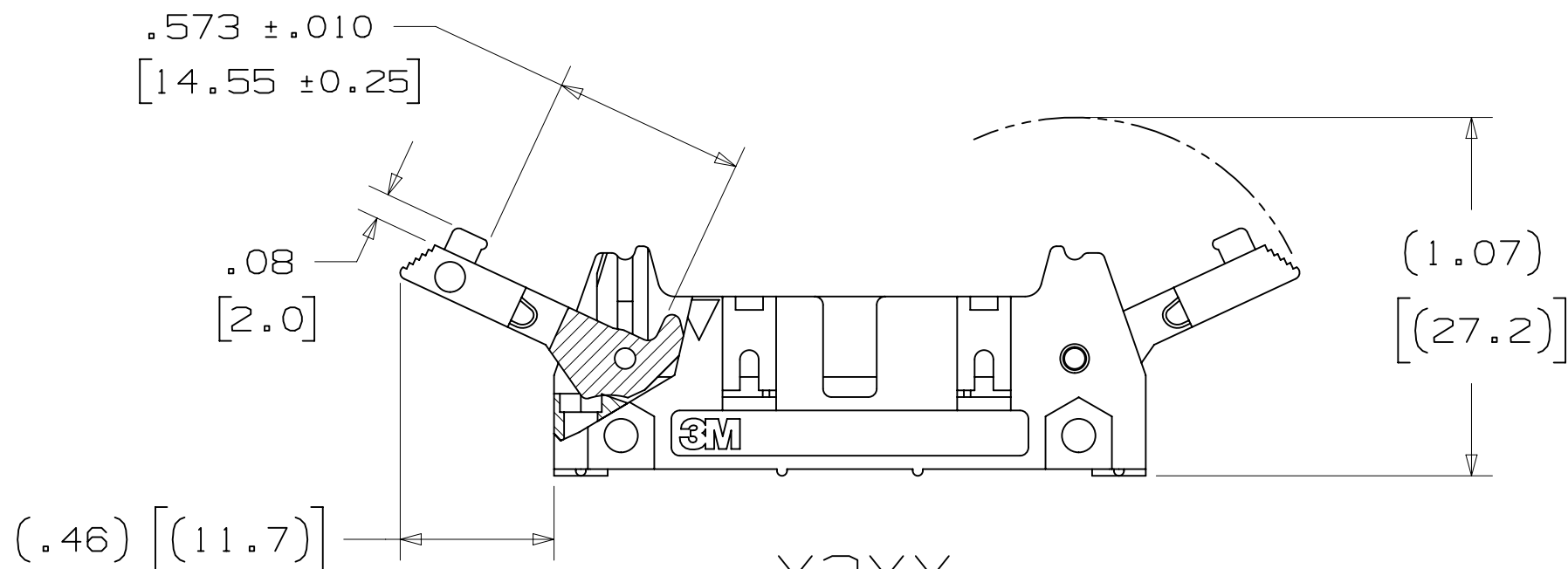
3M™ FOUR-WALL HEADER, 3000 SERIES
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



-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 10⁹Ω AT 500 V_{DC}
WITHSTANDING VOLTAGE: 1,000V_{RMS} 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

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

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

- * 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.

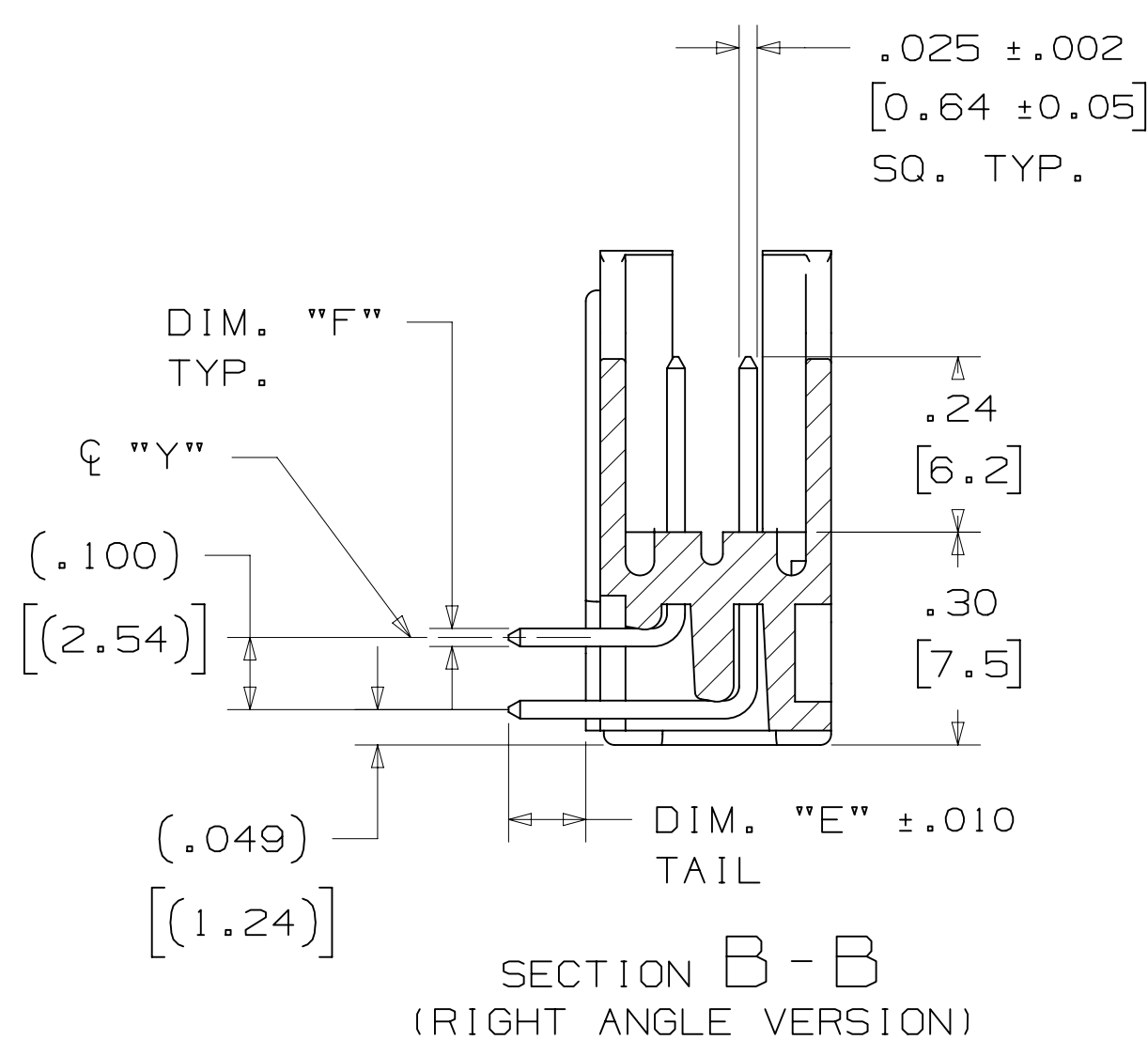
5. THE RECOMMENDED PCB HOLE SIZE
FOR THE KINKED TAIL POSITIONS
ON THE .112 SOLDER TAIL
CONNECTOR IS Ø.035±.002.
(SEE K2 VERSION).

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

| | | | | | | |
|--|---------------|--|----------------|----------------------------|--------------|--------|
| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| 3M CODES | | | | CASTIGLIONE | DATE | DATE |
| | | | | JUL 25, 2014 | MFG | |
| | | | | CHKD | DATE | DATE |
| | | | | R. SCHERER | SEP 05, 2014 | |
| DIVISION | DIVISION CODE | © 3M COPYRIGHT 2015 | | | | |
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| 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 | | | | |
| INTERPRET PER ASME Y14.5 - 2009 | | | | | | |
| MAX 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

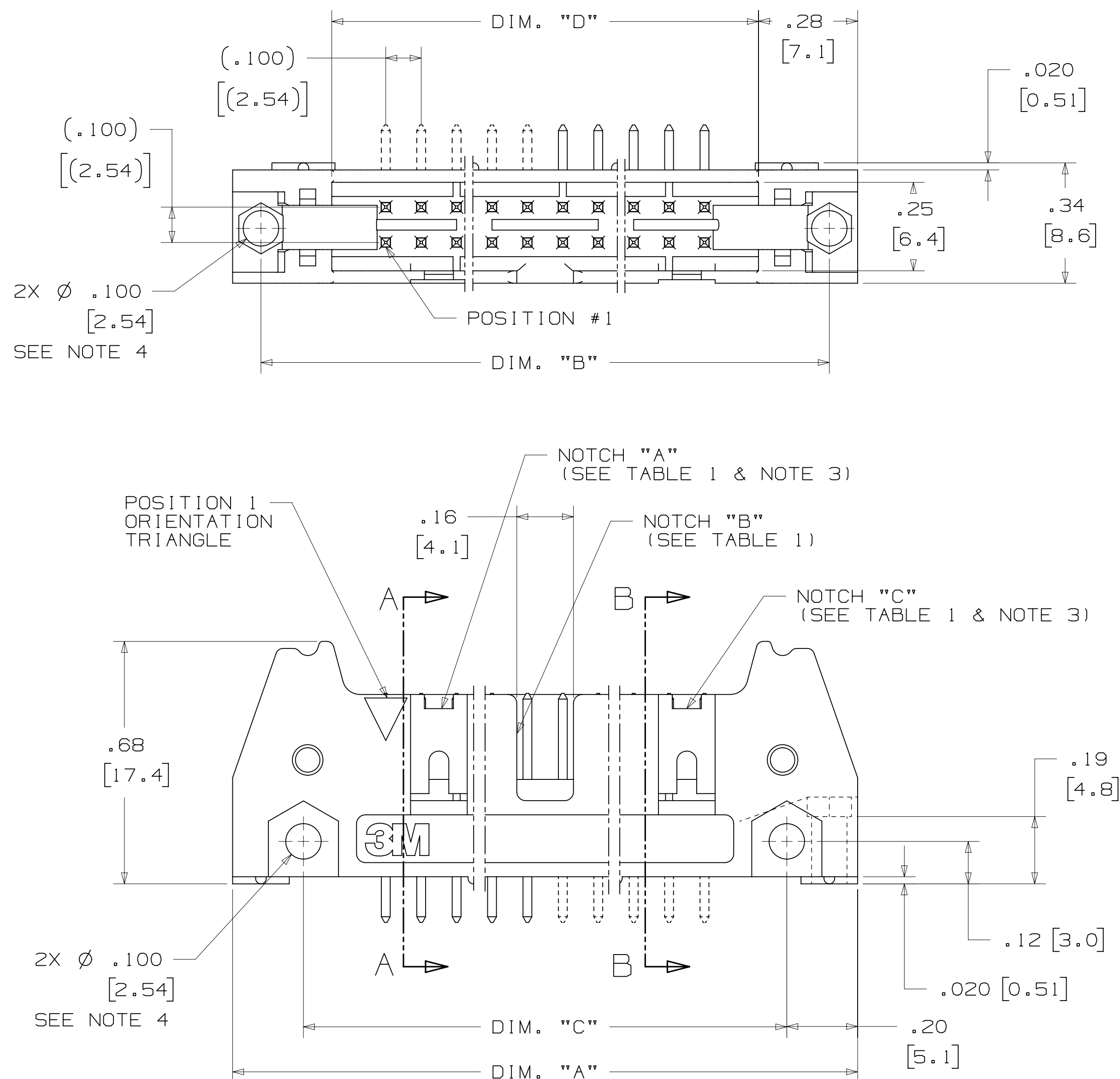
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

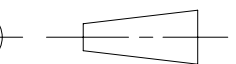



| TABLE 1 | | | | | | | |
|----------|----------------|----------------|-----------------|-----------------|---------------|--------------------|---------|
| PIN QTY. | 3M PART NUMBER | DIM. "A" | DIM. "B" | DIM. "C" | DIM. "D" | POLARIZING NOTCHES | PIN QTY |
| 06 | 3869 | 1.06 [27.0] | .905 [22.99] | .665 [16.89] | .51 [12.9] | B* | 06 |
| 08 | 3889 | 1.16 [29.5] | 1.005 [25.53] | .765 [19.43] | .61 [15.5] | B* | 08 |
| 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 |
| 24 | 3627 | 1.96 [49.9] | 1.805 [45.82] | 1.565 [39.75] | 1.41 [35.8] | ABC | 24 |
| 26 | 3429 | 2.06 [52.4] | 1.905 [48.36] | 1.665 [42.29] | 1.51 [38.3] | ABC | 26 |
| 30 | 3440 | 2.26 [57.5] | 2.105 [53.44] | 1.865 [47.37] | 1.71 [43.4] | ABC | 30 |
| 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 |

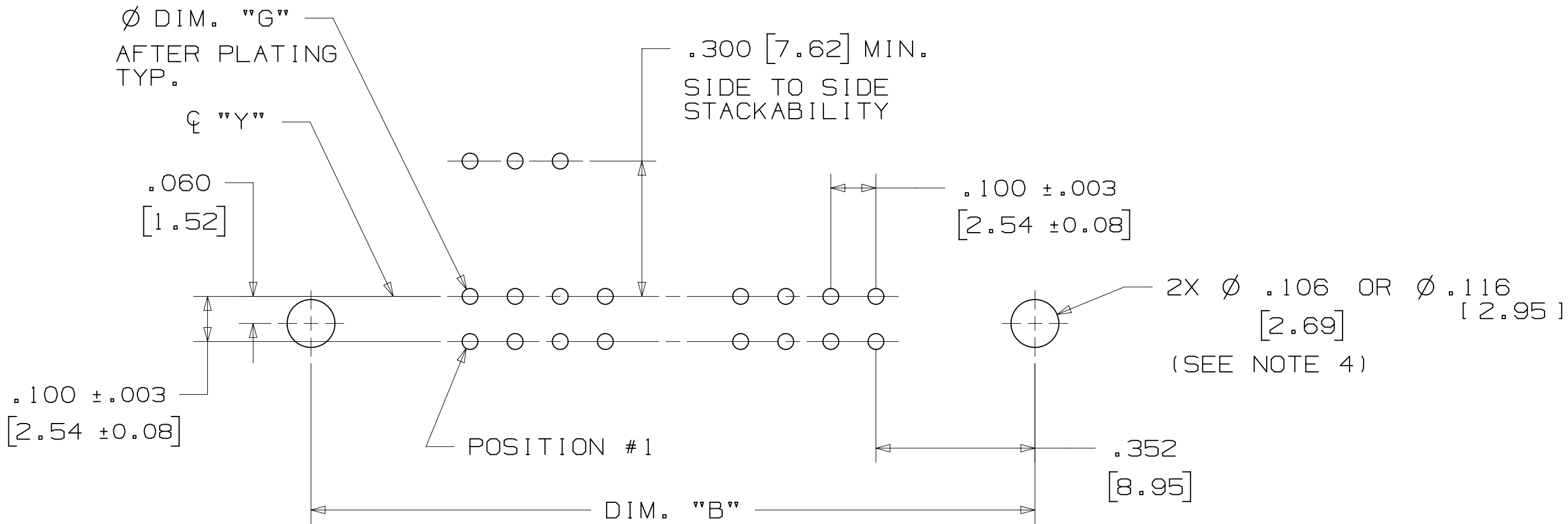
* AVAILABLE WITHOUT CENTER NOTCH B. CONTACT 3M

| TABLE 2 | | | | | | |
|-----------------------------|---|---------------|-------------------------|----------------------|---------------------|------------------------------------|
| 3M PART NUMBER SUFFIX | CONTACT TAIL | DIM. "E" | PIN CROSS SECTION | | | DIM. "G" |
| -5XX2 | .062 [1.57] THICK PC BOARD | .112 [2.84] | DIM. "F" | DIAGONALS | CORNER RADIUS | .035+/- .003 [.89] SEE NOTE 5 |
| -6XX2 | | | .0245+/- .0005 [.622] | .028+/- .001 [.71] | .0075 REF. [.191] | |
| -5X03 | .094 [2.39] TO .125 [3.18] THICK PC BOARD | .155 [3.94] | .0245+/- .0005 [.622] | .028+/- .001 [.71] | .0075 REF. [.191] | .035+/- .003 [.89] |
| -6X03 | | | | | | |

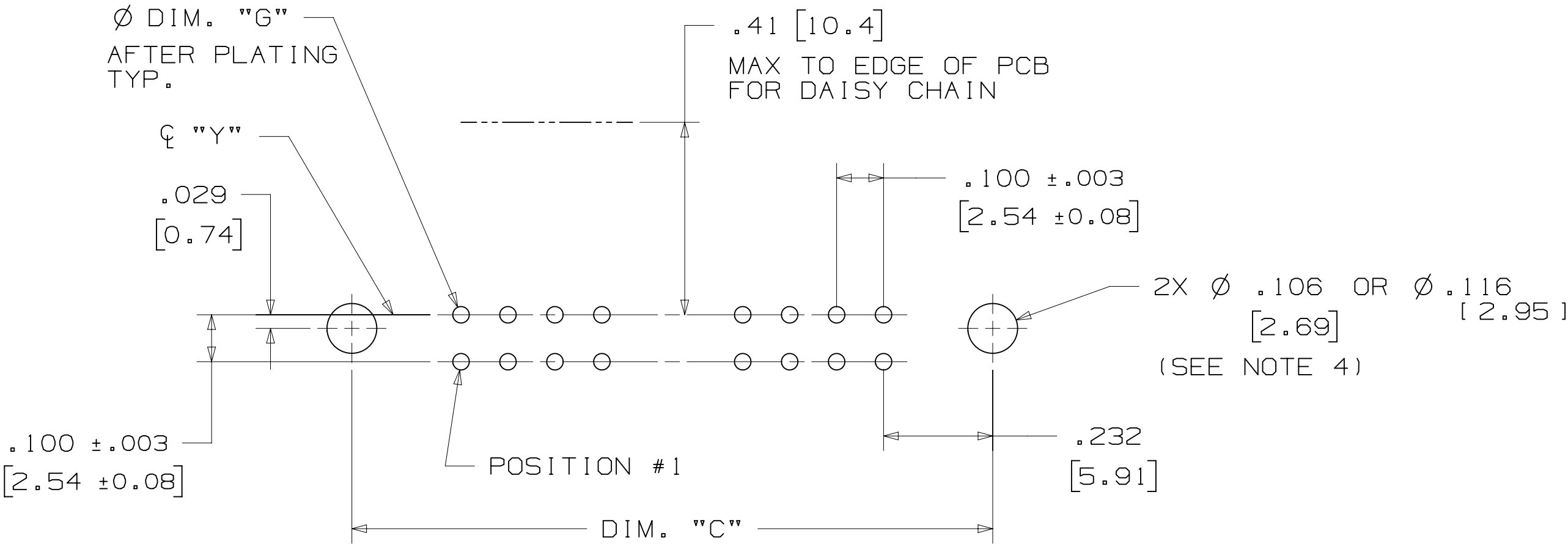


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| DESIGN REFERENCE | | NEXT ASSEMBLY | | REV | ECO | ISSUE DATE AND DESCRIPTION | | DRFT | CHKD |
| ACROSS CODES | | | | DRFT | CAST1G1L1NE | | DATE | MFG | DATE |
| | | | | CHKD | | | JUL 25, 2014 | | |
| | | | | | | DATE | APPRV. | DATE | |
| | | | | | | | R. SCHERER | SEP 05, 2014 | |
| DIVISION | | DIVISION CODE | | <div style="display: flex; justify-content: space-between;"> <div> <p>Interconnect Solutions</p> <p>DO NOT SCALE DRAWING</p> <p>SCALE $\frac{1}{1}$</p>  <p>THIRD ANGLE PROJECTION</p> <p>INTERPRET PER ASME Y14.5 - 2009</p> <p>MAX SURFACE ROUGHNESS</p> <p><input checked="" type="checkbox"/> ALL SURFACES</p> <p><input type="checkbox"/> MARK ONLY</p> </div> <div> <p>EMSD</p> <p>TOLERANCES EXCEPT AS NOTED</p> <p>INCHES</p> <p>0.0 ±</p> <p>0.00 ± .01</p> <p>0.000 ± .005</p> <p>0.000 ±</p> <p>MILLIMETERS</p> <p>0 ±</p> <p>0.0 ± .3</p> <p>0.00 ± .13</p> <p>0.000 ±</p> <p>ANGLES</p> </div> </div> | | | | | |
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| | | | | TITLE | | <p>HEADER, 4-WALL, .100 X .100 LATCHER/EJECTOR, STRAIGHT & RA</p> | | | |
| | | | | CAGE NUMBER | | DRAWING NO. | | REV. | |
| | | | | D | | D78-5100-0772-3 | | S | |
| | | | | MODEL | | 3000 SERIES | | DET. <input type="checkbox"/> LISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 2 OF 4 | |

3M™ FOUR-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

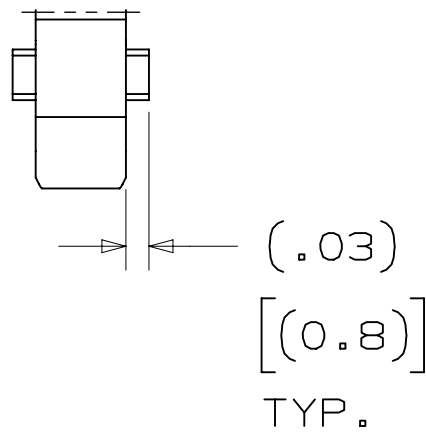
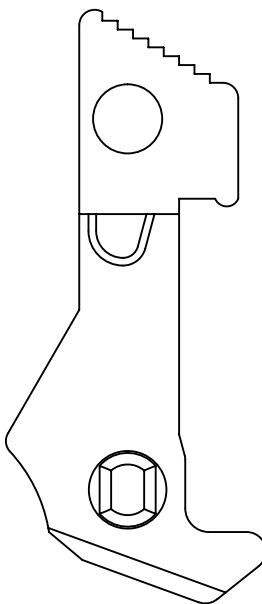
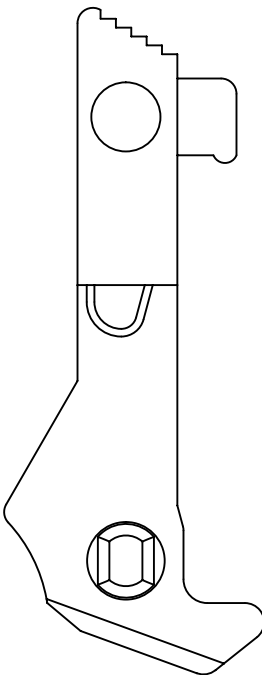
THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

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

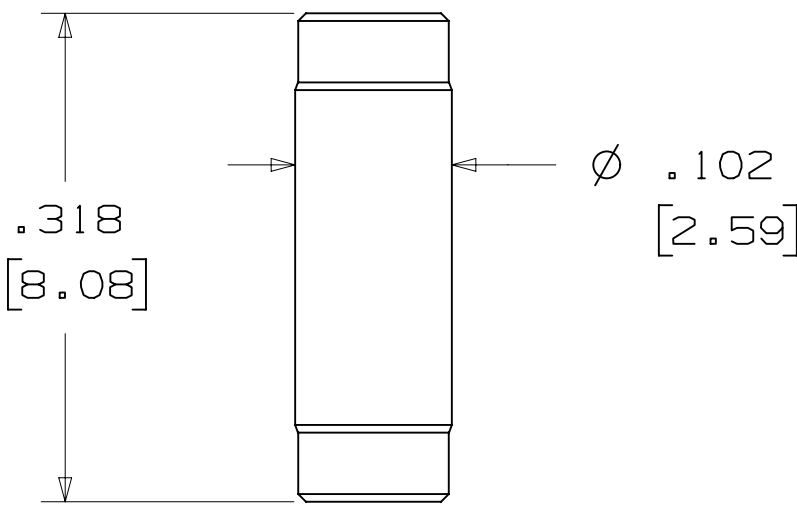


LONG SHORT

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 |

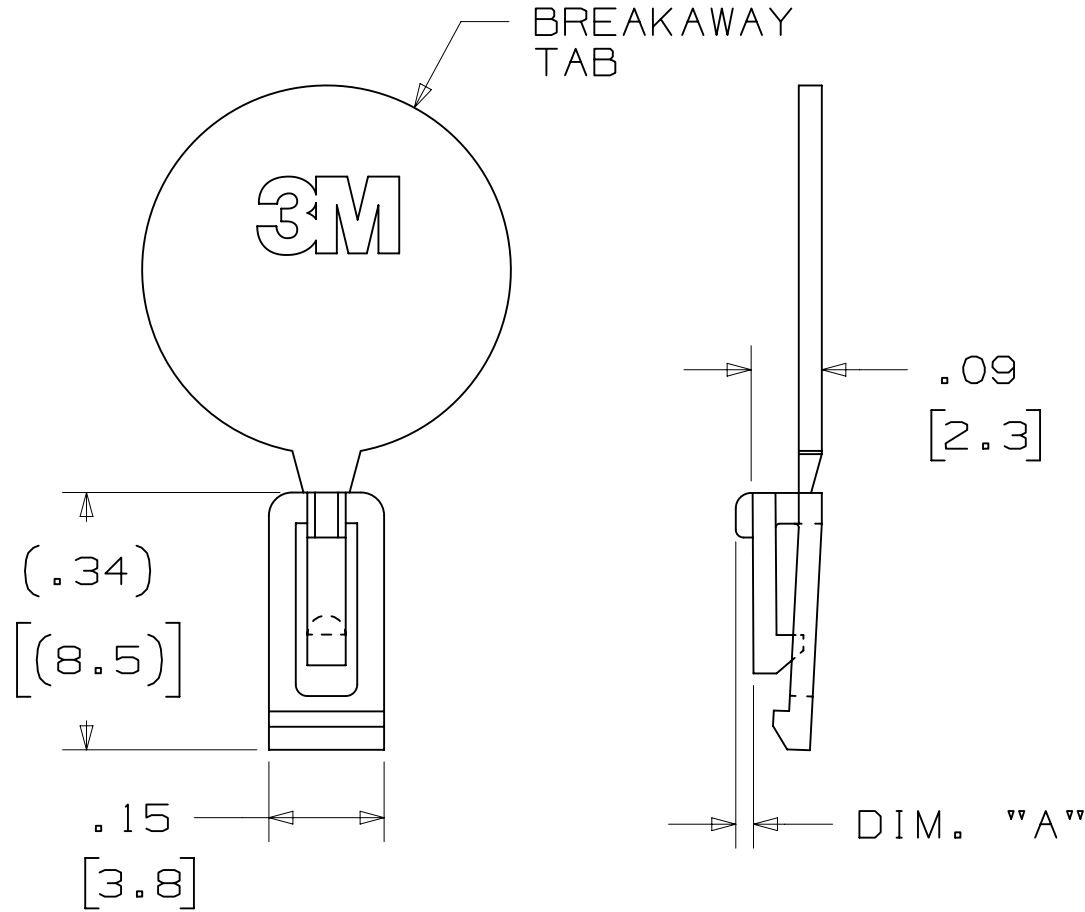
NOTE:
INSERT POST INTO ONE MOUNTING HARDWARE HOLE ON BOTTOM OF HEADER. SET POST TO PROTRUDE .115 [2.92]

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 | |
| 24 | 4 | 3 | 4 | 21 | 22 | |
| 26 | 4 | 3 | 4 | 23 | 24 | |
| 30 | 4 | 5 | 6 | 25 | 26 | |
| 34 | 4 | 7 | 8 | 27 | 28 | |
| 36 | 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 KEYS



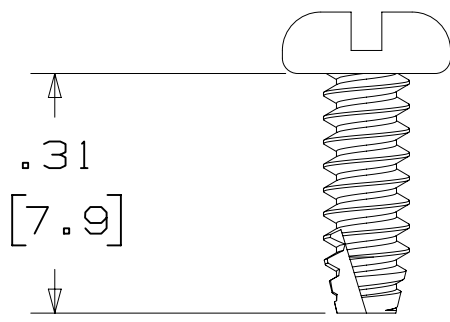
| 3M PART NO. | MATERIAL | COLOR | DIM. 'A' |
|-------------|----------|-------|----------|
| N3518 | LCP | BLACK | .02 |

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

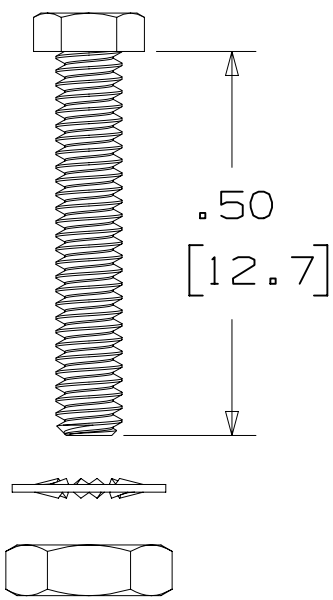
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| DESIGN REFERENCE | | NEXT ASSEMBLY | | REV | | ECO | | ISSUE DATE AND DESCRIPTION | | | | DRFT | | CHKD | |
| ACCESS CODES | | | | DRAFT | | CASTIGLIONE | | DATE | | JUL 25, 2014 | | MFG | | DATE | |
| | | | | | | | | DATE | | | | APPROV | | DATE | |
| | | | | | | | | | | | | R. SCHERER | | SEP 05, 2014 | |
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| DO NOT SCALE DRAWING | | SCALE 4 1 | | TOLERANCES EXCEPT AS NOTED | | | | TITLE | | | | | | | |
| | | | | INCHES .0 ± .01 .00 ± .005 .000 ± | | | | HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA | | | | | | | |
| THIRD ANGLE PROJECTION | | | | MILLIMETERS 0 ± .0 ± .3 .00 ± .13 .000 ± | | | | CAGE NUMBER | | | | DRAWING NO. | | | |
| INTERPRET PER ASME Y14.5 - 2009 | | | | | | | | D 78-500-0772-3 | | | | REV. | | | |
| MAX SURFACE ROUGHNESS | | | | | | | | MODEL | | | | DET. | | | |
| | | | | | | | | 3000 SERIES | | | | LISTS <input type="checkbox"/> YES <input type="checkbox"/> NO SHT 3 OF 4 | | | |
| MARKED ONLY | | | | | | | | | | | | | | | |
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3M™ FOUR-WALL HEADER, 3000 SERIES
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

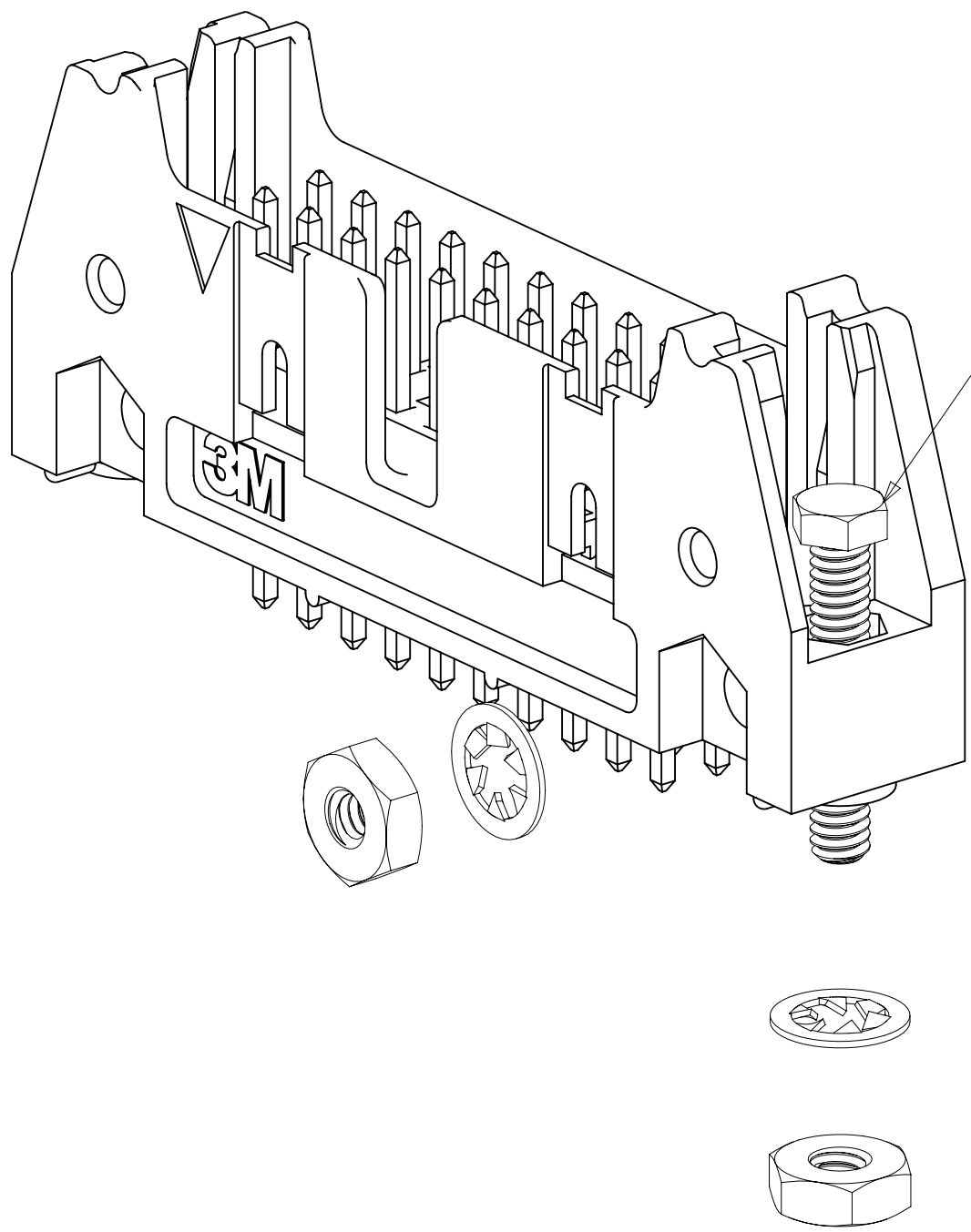
MOUNTING HARDWARE



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



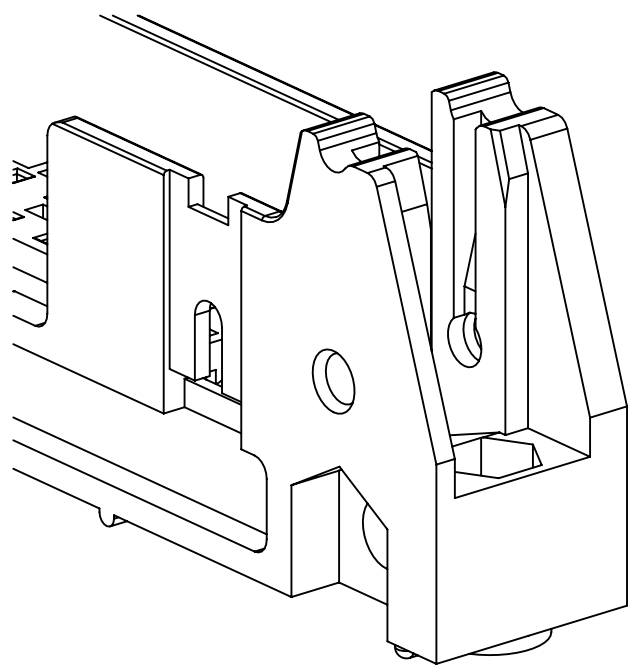
3341-6
HEX HEAD BOLT, NUT AND WASHER:
BOLT - #2-56 X 1/2"
MATERIAL: STAINLESS STEEL



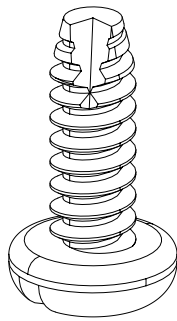
STRAIGHT VERSION INSTALL
(MUST BE INSERTED PRIOR TO
LATCH INSTALL)

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 | | JUL 25, 2014 | | REVISED AND REDRAWN | |
| THIRD ANGLE PROJECTION | | INCHES .00 ± .01 .000 ± .0005 .0000 ± | | MILLIMETERS 0 ± .3 .00 ± .13 .000 ± | | JUL 25, 2014 | | JUL 25, 2014 | |
| INTERPRET PER ASME Y14.5 - 2009 | | MAX SURFACE ROUGHNESS | | CAGE NUMBER | | SIZE | | DRAWING NO. | |
| MARKED ONLY | | ANGLES | | D | | 78-5100-0772-3 | | S | |
| | | | | MODEL | | 3000 SERIES | | DET | |
| | | | | | | | | YES NO | |
| | | | | | | | | SHT 4 OF 4 | |

Authorized Distribution Brand :



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