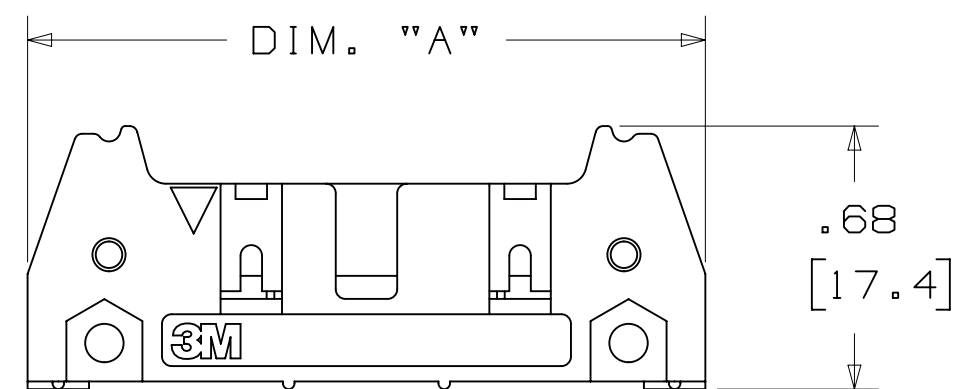
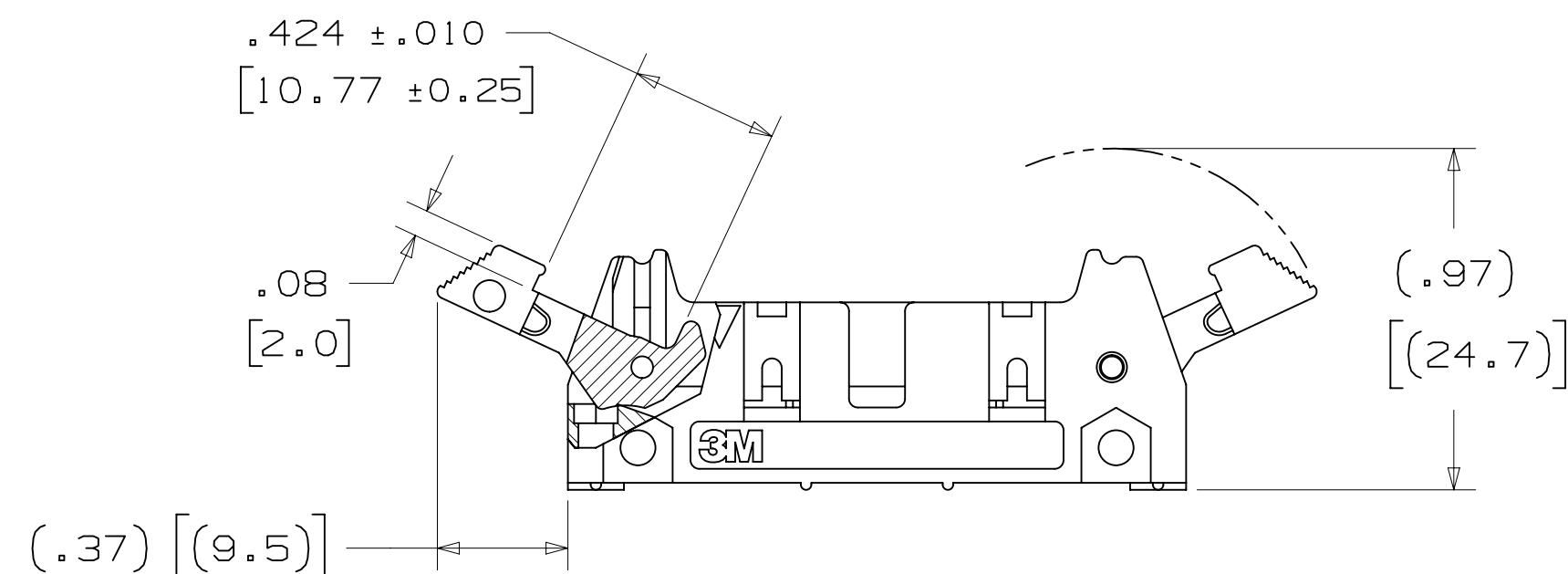


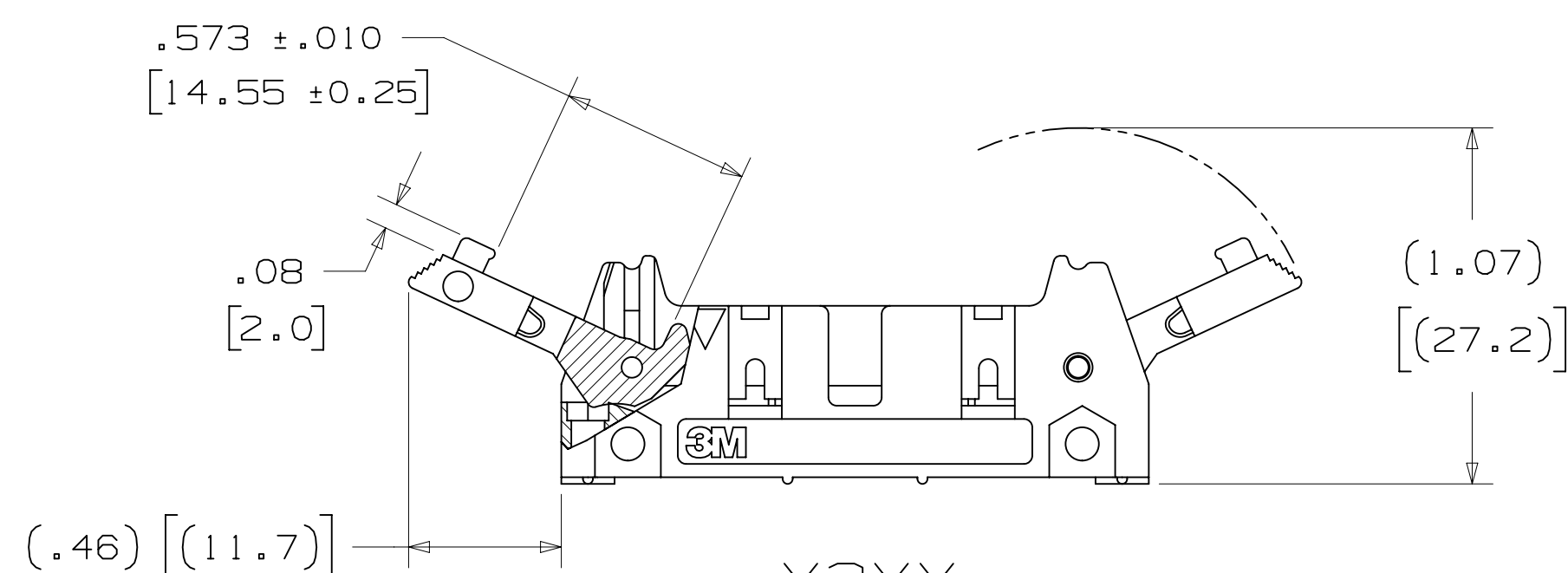
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



-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

X3XXX - XXXXXX

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

```

- TAIL :
02 = FOR .062 [1.57] THICK BOARD
03 = FOR .094 TO .125 [2.39 TO 3.18] THICK BOARD
05 = WWT FOR UP TO 3 LEVELS OF WIRE WRAP
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 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.

## 2 PHYSICAL:

```

INSULATOR:
  MATERIAL: GLASS FILLED POLYESTER (PCT)
FLAMMABILITY: UL94V-0
  COLOR: BLACK
CONTACT:
  MATERIAL: COPPER ALLOY
  PLATING:
UNDER PLATING: 100μ" [ 2.54μm ] AVG. 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: 00

EIA 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:  $>1 \times 10^9 \Omega$  AT 500 V<sub>DC</sub>  
WITHSTANDING VOLTAGE: 1,000V<sub>RMS</sub> AT SEA LEVEL  
UL CURRENT RATING: 1.0A ALL LINES POWERED  
UL VOLTAGE RATING: 125V

## 2 ENVIRONMENTAL:

UL TEMPERATURE RATING: 130C  
EIA 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)

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

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ADDRESS CODES				DRFT	DATE		MFG	DATE	
				CHKD	DATE		ASPLY	DATE	
		DIVISION CODE				R. SCHERER		SEP 05, 2014	
DIVISION		INTERCONNECT SOLUTIONS		EMSD		© 3M COPYRIGHT 2016			
DO NOT SCALE DRAWING		SCALE 2/1		TOLERANCES EXCEPT AS NOTED		<p><b>3M</b> 3M Center St. Paul, MN 55144</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>			
THIRD ANGLE PROJECTION		INCHES		TITLE		<p>HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT &amp; RA</p>			
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		CAGE NUMBER		SIZE		DRAWING NO.	
MAX. SURFACE ROUGHNESS		.00 ± .13		D		D78-5100-0772-3		REV.	
MAX. SURFACES		.00 ± .3		MODEL		3000 SERIES		DET.	
✓ <input type="checkbox"/> MARKED ONLY		.000 ±						LISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
		ANGLES						SHT 1 OF	

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

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

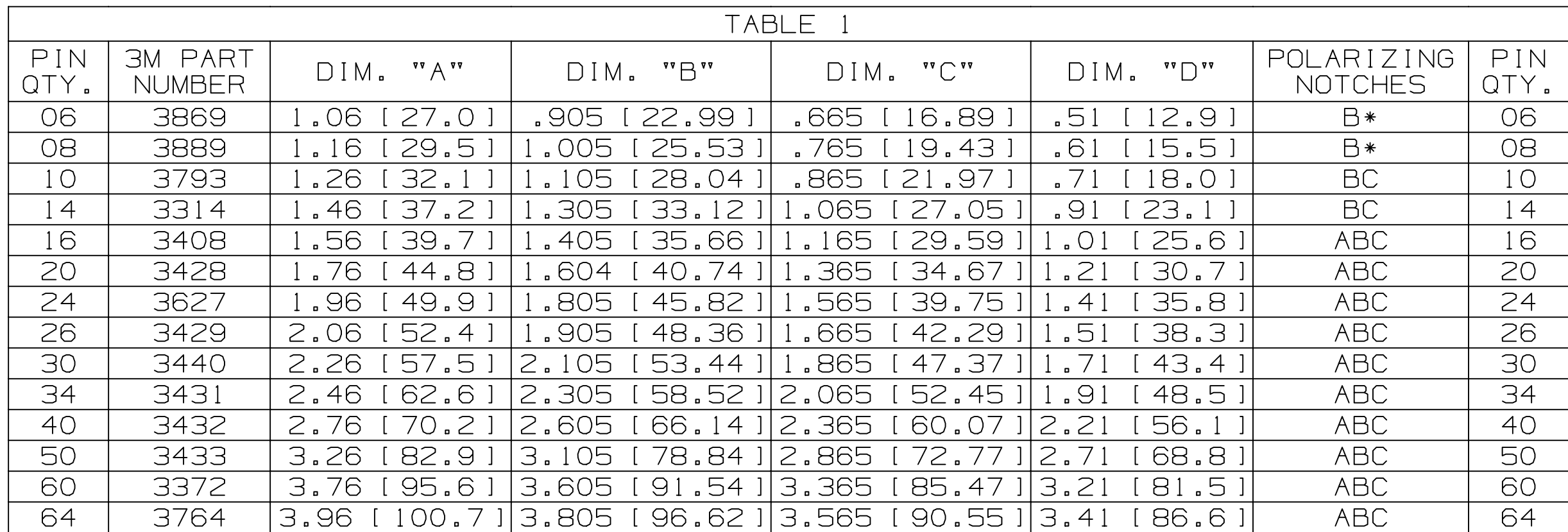
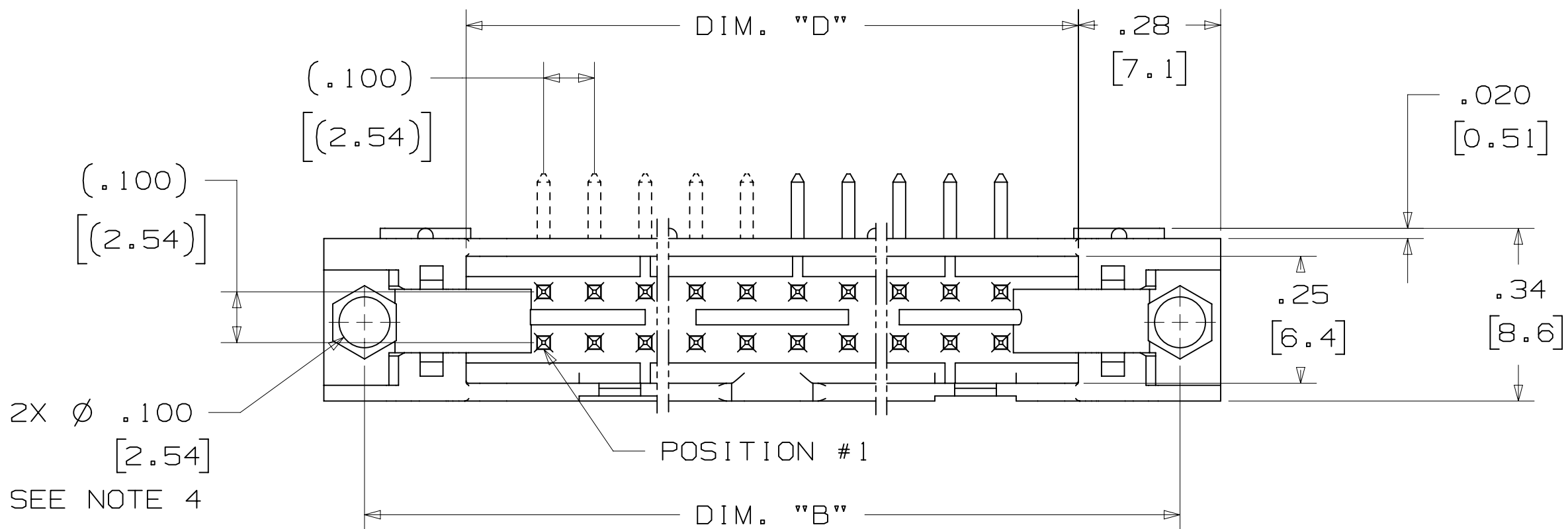

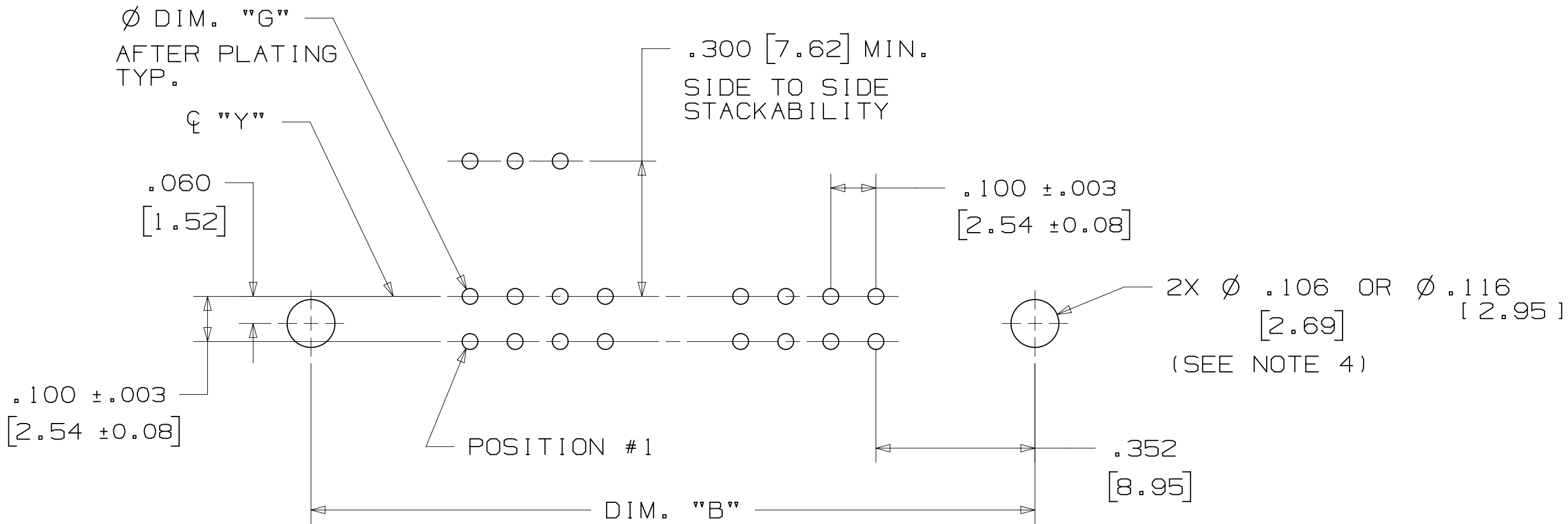


TABLE 2						
3M PART NUMBER SUFFIX	CONTACT TAIL	DIM. "E"	PIN CROSS SECTION			DIM. "G"
			DIM. "F"	DIAGONALS	CORNER RADII	
-5XX2	.062 [ 1.57 ] THICK PC BOARD	.112 [ 2.84 ]	.0245+/- .0005 [ .622 ]	.028+/- .001 [ .71 ]	.0075 [ .191 ] REF.	.035+/- .003 [ .89 ] SEE NOTE 5
-6XX2						
-5X03	.094 [ 2.39 ] TO .125 [ 3.18 ] THICK PC BOARD	.155 [ 3.94 ]	.0245+/- .0005 [ .622 ]	.028+/- .001 [ .71 ]	.0075 [ .191 ] REF.	.035+/- .003 [ .89 ]
-6X03						
-5X05	WIRE WRAP TAIL FOR UP TO 3 LEVELS OF WIRE WRAP	.61 [ 15.5 ] REF.	.0250+/- .002 [ .635 ]	.035+/- .003 [ .89 ]	.003 [ .08 ] MAX.	.045+/- .003 [ 1.14 ]

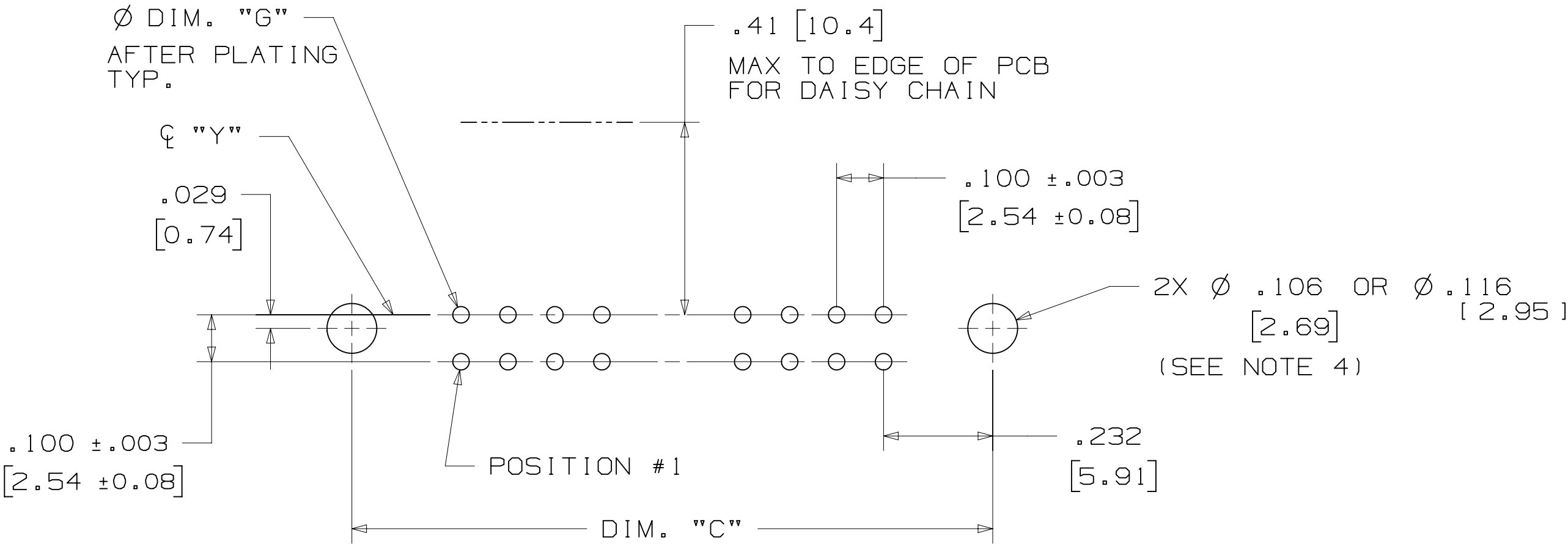
DESIGN REFERENCE		NEXT ASSEMBLY	REV	ECD	ISSUE DATE AND DESCRIPTION	DRAFT	CHKD
<del>ACCESS CODES</del>		<del></del>	DRAFT CASTIGLIONE	DATE JUL 25, 2014	MFG	DATE	
			CHKD	DATE	APPROV. R. SCHERER	DATE SEP 05, 2014	
DIVISION <b>Interconnect Solutions</b>		DIVISION CODE <b>EMSD</b>					
DO NOT SCALE DRAWING	SCALE 4 1	TOLERANCES EXCEPT AS NOTED					
		INCHES .00 ± .00 ± .01 .000 ± .005 .0000 ±					
THIRD ANGLE PROJECTION		MILLIMETERS .00 ± .00 ± .13 .00 ± .13 .000 ±					
INTERPRET PER ASME Y14.5 - 2009		MAX. SURFACE ROUGHNESS ✓ RAZED SURFACES □ MARKED ONLY					
<del></del>			TITLE HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA				
<del></del>			CAGE NUMBER	SIZE	DRAWING NO.	REV.	
<del></del>			<b>D</b>		78-100-0772-3	T	
<del></del>			MODEL	3000 SERIES		DET. YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> SHT 2 OF 4	

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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

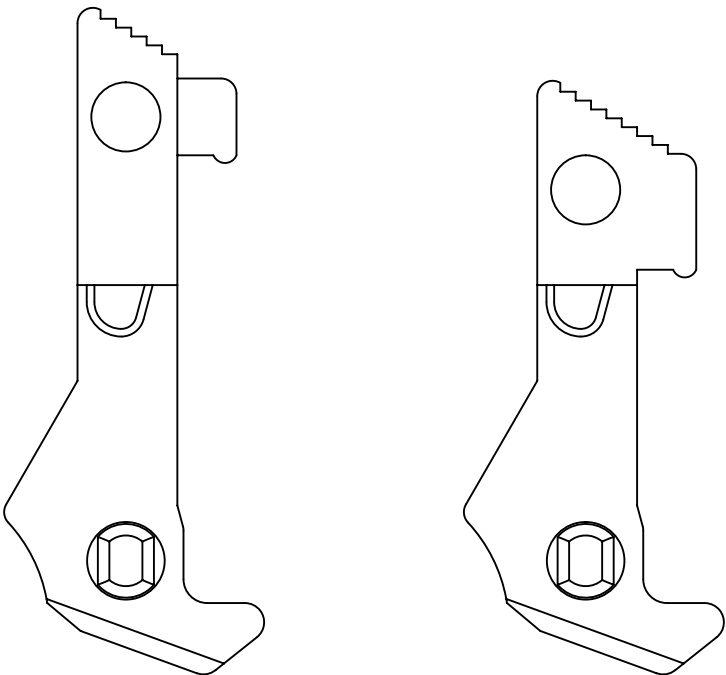
THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

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

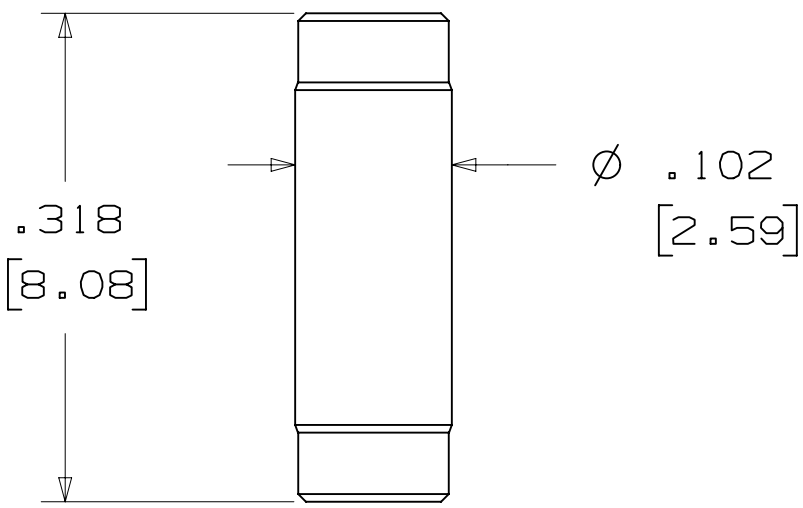


LONG SHORT

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

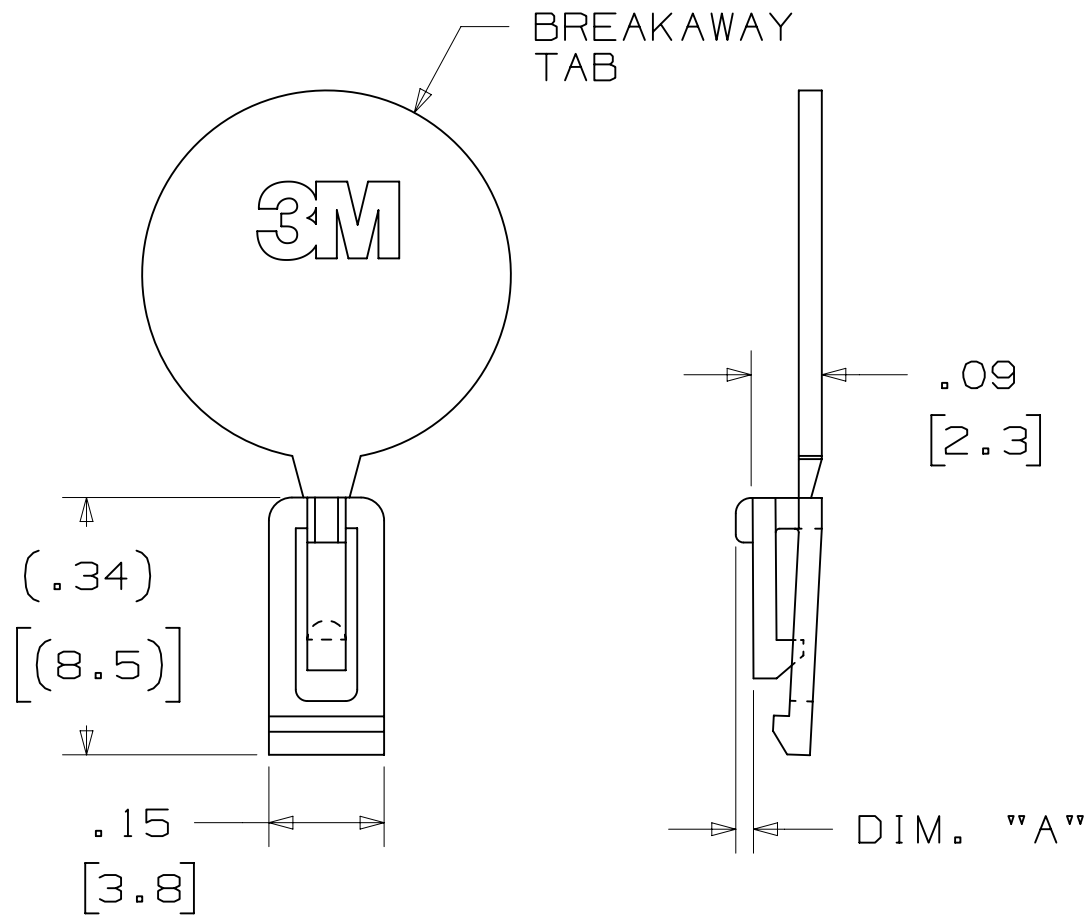
NOTE:  
INSERT POST INTO ONE MOUNTING HARDWARE HOLE ON BOTTOM OF HEADER. SET POST TO PROTRUDE .115 [2.92]

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



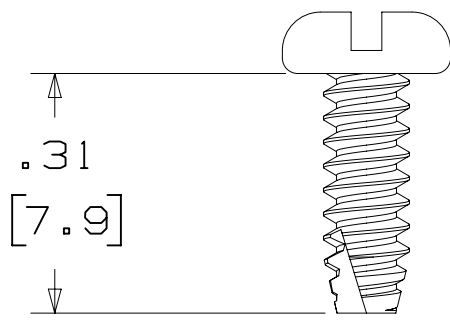
3M PART NO.	MATERIAL	COLOR	DIM. 'A'
N3518	LCP	BLACK	.02

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

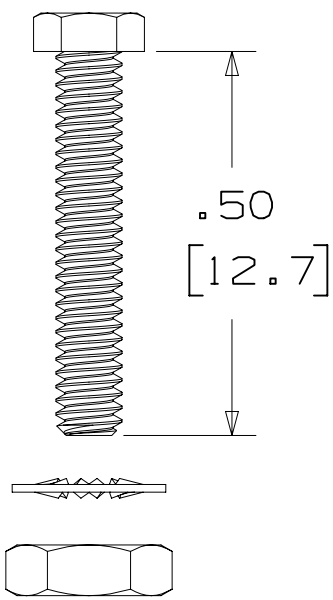
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X		X		DRP	CASTIGLIONE	DATE	JUL 25, 2014	MFG	DATE
X		X		CHKD	DATE	DATE	JUL 25, 2014	APPR	DATE
X		X		DIVISION		DIVISION CODE		DATE	
X		X		Interconnect Solutions		EMSD		DATE	
X		X		DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED	
X		X		THIRD ANGLE PROJECTION		INCHES .0 .00 ±.01 .000 ±.005 .0000 ±		MILLIMETERS 0 ± .0 ±.3 .00 ±.13 .000 ±	
X		X		INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS 12.5 SURFACES		MARKED ONLY	
X		X		CAGE NUMBER		SIZE		DRAWING NO.	
X		X		MODEL		3000 SERIES		REV.	
X		X		LISTS		YES		NO	
X		X		SHT		3		OF 4	

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

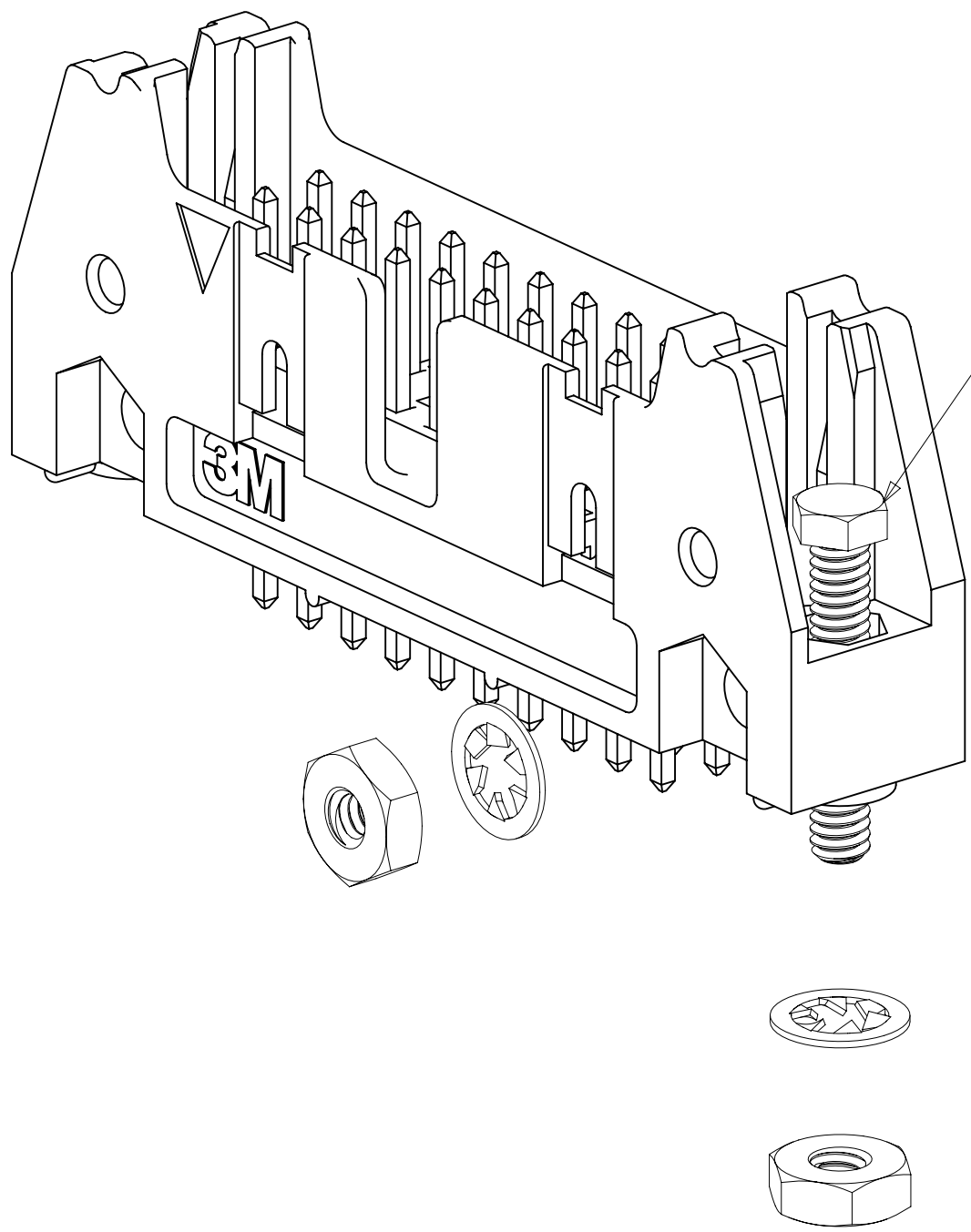
MOUNTING HARDWARE



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



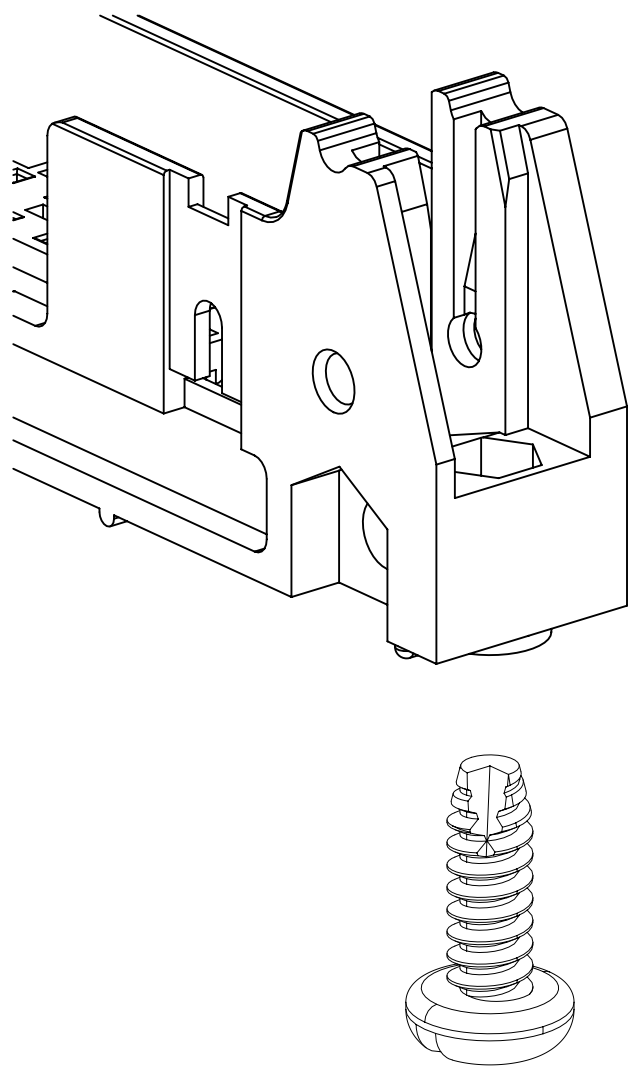
3341-6  
HEX HEAD BOLT, NUT AND WASHER:  
BOLT - #2-56 X 1/2"  
MATERIAL: STAINLESS STEEL



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

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XREF		XREF		DR	CHKD	DATE	MFG	DATE	
				CASTIGLIONE		JUL 25, 2014			
							R. SCHERER	SEP 05, 2014	
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2016					
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DO NOT SCALE DRAWING		SCALE 4 1		3M Center St. Paul, MN 55144					
THIRD ANGLE PROJECTION		TOLERANCES EXCEPT AS NOTED		TITLE					
		INCHES		HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA					
		MILLIMETERS		CAGE NUMBER					
		INTERPRET PER ASME Y14.5 - 2009		D 78-5100-0772-3					
		MAX SURFACE ROUGHNESS		MODEL					
		MARKED SURFACES		3000 SERIES					
		MARKED ONLY		DET. YES NO SHT 4 OF 4					

# Mouser Electronics

Authorized Distributor

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<u><a href="#">N3431-5303</a></u>	<u><a href="#">N3429-5602RB</a></u>	<u><a href="#">N3764-5503RB</a></u>	<u><a href="#">N3314-5503RB</a></u>	<u><a href="#">N3431-6502RB</a></u>	<u><a href="#">N3431-6602RB</a></u>	<u><a href="#">N3433-6503RB</a></u>
<u><a href="#">N3440-6503RB</a></u>	<u><a href="#">N3428-5503RB</a></u>	<u><a href="#">N3429-5503RB</a></u>	<u><a href="#">N3433-5503RB</a></u>	<u><a href="#">N3372-6603RB</a></u>	<u><a href="#">N3764-6603RB</a></u>	<u><a href="#">N3431-5603RB</a></u>
<u><a href="#">N3314-5602RB</a></u>	<u><a href="#">N3627-5502RB</a></u>	<u><a href="#">N3372-5602RB</a></u>	<u><a href="#">N3429-6503RB</a></u>	<u><a href="#">N3431-5602RB</a></u>	<u><a href="#">N3431-6503RB</a></u>	<u><a href="#">N3627-6503RB</a></u>
<u><a href="#">N3764-6602RB</a></u>	<u><a href="#">N3429-5603RB</a></u>	<u><a href="#">N3440-5503RB</a></u>	<u><a href="#">3627-66K2</a></u>			