

.100" X .100" LATCH/EJECTOR, STRAIGHT, COMPLIANT PIN



X XXXX-6X0T02XX

- PLATING:
RB = 30μ" [0.76μm] GOLD WITH MATTE TIN TAILS
(APP. E1 & C1 APPLY)
TC = 30μ" [0.76μm] GOLD WITH TIN LEAD TAILS
(APP. E2 & C2 APPLY)

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

2 PHYSICAL :

INSULATOR: MATERIAL: GLASS FILLED POLYESTER (PCT)
FLAMMABILITY: UL94V-0
COLOR: BLACK
CONTACT: MATERIAL: COPPER ALLOY
PLATING:
UNDER PLATING: 100 μ " [2.54 μ m] NICKEL
WIPING AREA: 30 μ " [0.76 μ m] AVG. GOLD
SOLDER TAILS: 100 μ " [2.54 μ m] TIN LEAD OR 300 μ " [7.62 μ m] MATTE TIN
(SEE ORDERING INFORMATION)
MARKINGS: 3M LOGO, PART IDENTIFICATION NUMBER AND ORIENTATION TRIANGLE

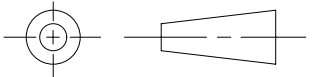
2 ELECTRICAL :

CURRENT RATING: 1A
INSULATION RESISTANCE: $>1 \times 10^9 \Omega$ AT 500 V_{DC}
WITHSTANDING VOLTAGE: 1,000V_{RMS} AT SEA LEVEL

2 ENVIRONMENTAL :

TEMPERATURE RATING: -55° C TO 105° C

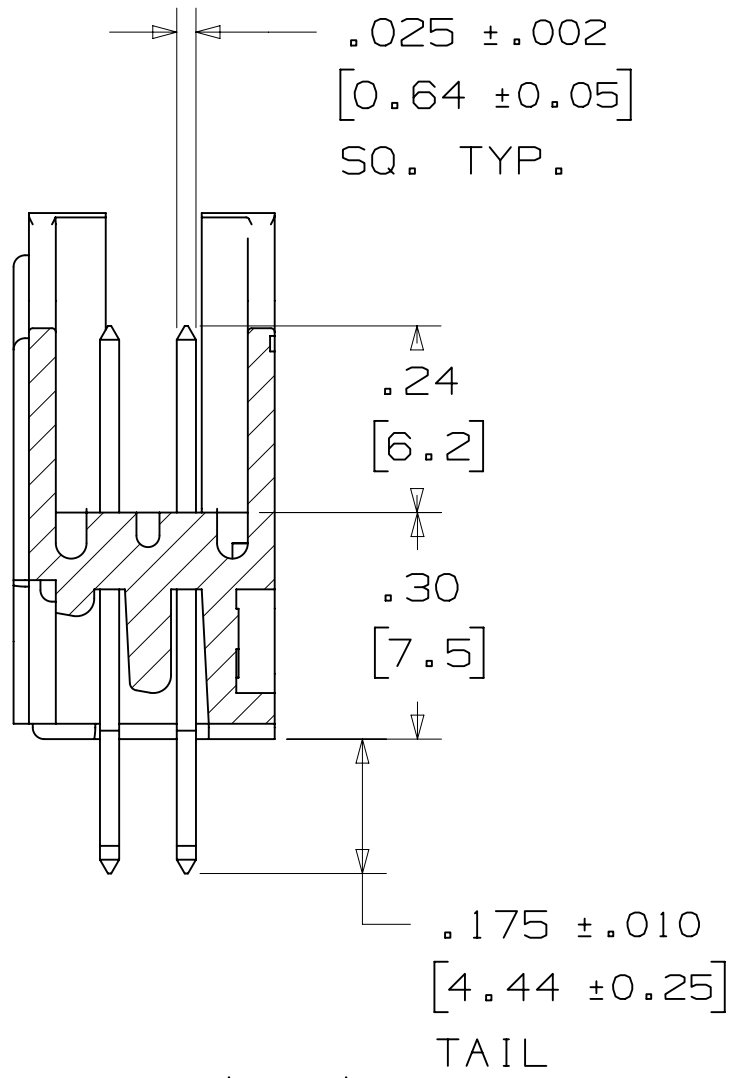
4 MOUNTING HARDWARE:
REAR ENTRY:
#4-24 THREAD CUTTING SCREW
(3M PART #3341-5) WITH
Ø .116 [2.95] MOUNTING HOLE.
FRONT ENTRY:
(PRIOR TO INSTALLATION OF LATCH)
#2-56 BOLT AND NUT (3M PART
#3341-6) WITH Ø .106 [2.69]
MOUNTING HOLE.

DIMENSIONS: INCHES [MM] [MM] IS REF. ONLY						E	56068	JUL 31, 2014 REVISED AND REDRAWN		JNC	RS
DESIGN REFERENCE			NEXT ASSEMBLY			REV	ECO	ISSUE DATE AND DESCRIPTION		DFT	CHKD
ACCESS CODES						CAGE NUMBER	DATE	MFG	DATE		
						CASTIGLIONE	JUL 31, 2014				
						CHKD	DATE	APPRV.	DATE		
								R. SCHERER	SEP 05, 2014		
DIVISION Interconnect Solutions				DIVISION CODE EMSD				© 3M COPYRIGHT 2015			
DO NOT SCALE DRAWING				SCALE 2 1				TOLERANCES EXCEPT AS NOTED			
				INCHES .00 ± .01 .000 ± .005 .0000 ±				TITLE HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STR, COMPLIANT PIN			
THIRD ANGLE PROJECTION				MILLIMETERS 0 ± .00 ± .3 .000 ± .13 .0000 ±				CAGE NUMBER SIZE1 DRAWING NO. D78-5100-0478-7			
INTERPRET PER ASME Y14.5 - 2009				MAX SURFACE ROUGHNESS R.A. SURFACES ✓ □ MARKED ONLY				MODEL 3000 SERIES DET. LISTS YES X NO			
								SHT 1 OF 4			

cUL[®] US
UL FILE NO: E68080

3M™ FOUR-WALL HEADER, 3000 SERIES

.100" X .100" LATCH/EJECTOR, STRAIGHT, COMPLIANT PIN



SECTION A - A

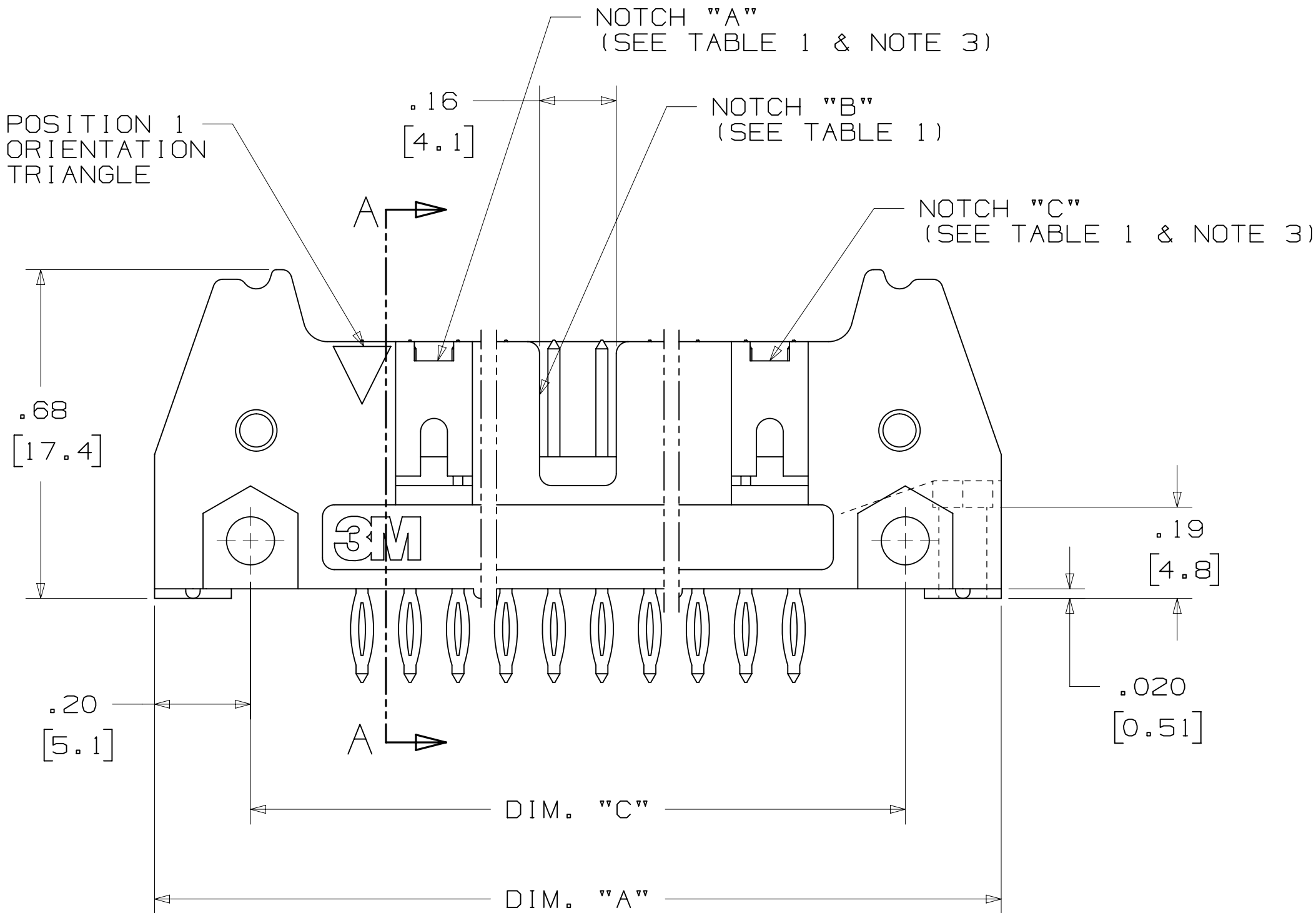
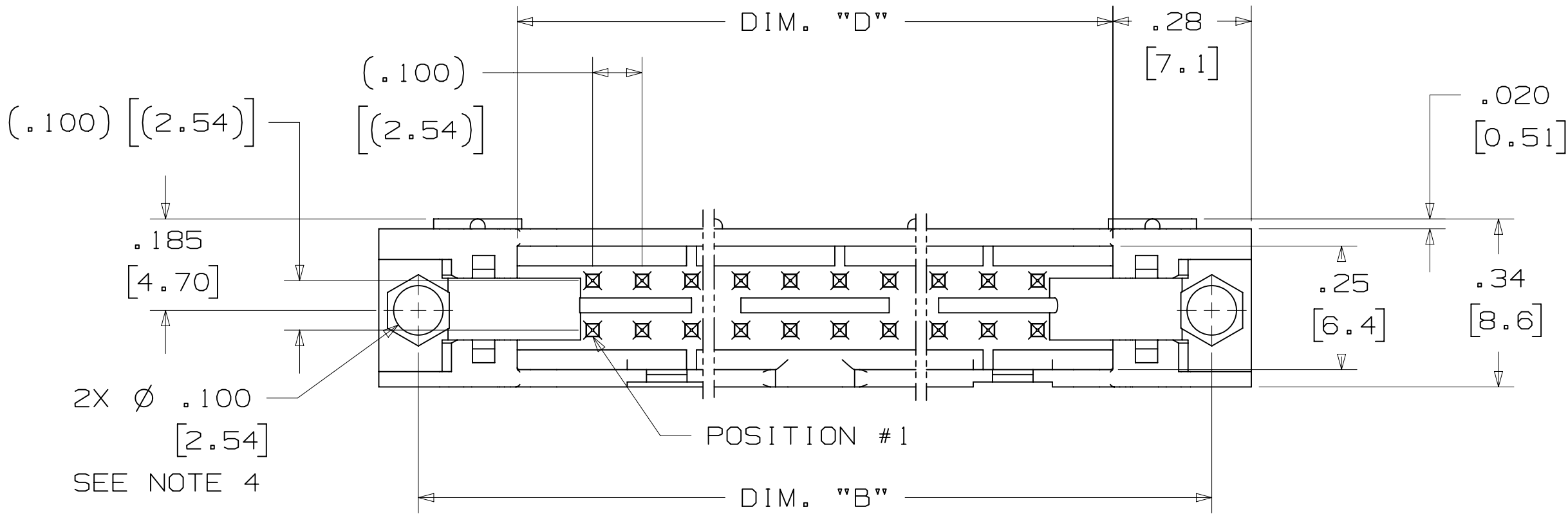
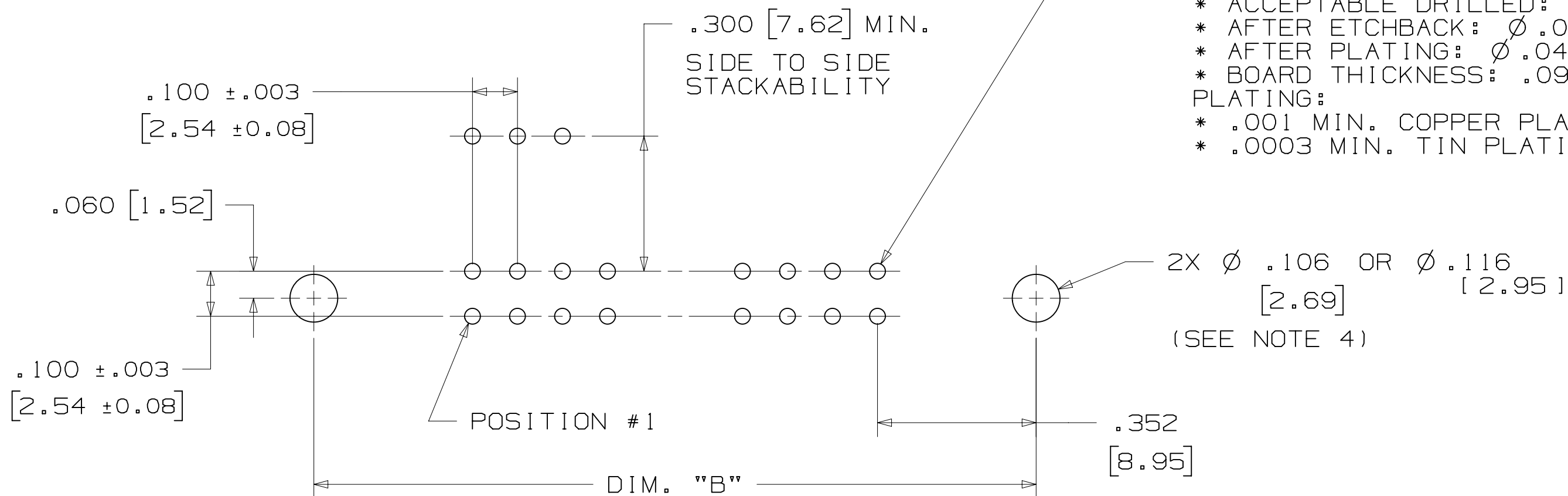


TABLE 1								
PIN QTY.	3M PART NUMBER	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	POLARIZING NOTCHES	INSERTION PLATEN 3442-00XX	PIN QTY.
10	3793	1.26 [32.1]	1.105 [28.04]	.865 [21.97]	.71 [18.0]	BC	3442-0048	10
14	3314	1.46 [37.2]	1.305 [33.12]	1.065 [27.05]	.91 [23.1]	BC	3442-0049	14
16	3408	1.56 [39.7]	1.405 [35.66]	1.165 [29.59]	1.01 [25.6]	ABC	3442-0050	16
20	3428	1.76 [44.8]	1.604 [40.74]	1.365 [34.67]	1.21 [30.7]	ABC	3442-0051	20
24	3627	1.96 [49.9]	1.805 [45.82]	1.565 [39.75]	1.41 [35.8]	ABC	3442-0052	24
26	3429	2.06 [52.4]	1.905 [48.36]	1.665 [42.29]	1.51 [38.3]	ABC	3442-0053	26
30	3440	2.26 [57.5]	2.105 [53.44]	1.865 [47.37]	1.71 [43.4]	ABC	3442-0054	30
34	3431	2.46 [62.6]	2.305 [58.52]	2.065 [52.45]	1.91 [48.5]	ABC	3442-0055	34
40	3432	2.76 [70.2]	2.605 [66.14]	2.365 [60.07]	2.21 [56.1]	ABC	3442-0056	40
50	3433	3.26 [82.9]	3.105 [78.84]	2.865 [72.77]	2.71 [68.8]	ABC	3442-0057	50
60	3372	3.76 [95.6]	3.605 [91.54]	3.365 [85.47]	3.21 [81.5]	ABC	3442-0058	60
64	3764	3.96 [100.7]	3.805 [96.62]	3.565 [90.55]	3.41 [86.6]	ABC	3442-0059	64

ASSEMBLY EQUIPMENT:
USE 3442-00XX PLATEN (SEE TABLE #1) AND APPROPRIATE COMMERCIAL ARBOR PRESS
TO PRESS HEADER INTO PC BOARD.

DESIGN REFERENCE		NEXT ASSEMBLY		E 56068		JUL 31,2014		JNC		RS	
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD			
CAGE CODE		REV		CASTIGLIONE		DATE		MFG		DATE	
CHKD		DATE		APPR		R. SCHERER		DATE		SEP 05,2014	
DIVISION		Interconnect Solutions		DIVISION CODE		EMSD		3M		3M Center St. Paul, MN 55144	
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED				© 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.	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		INCHES .0 ± .01 .000 ± .005 .0000 ±		MILLIMETERS 0 ± .0 .00 ± .13 .000 ±		TITLE		HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STR, COMPLIANT PIN	
MAX SURFACE ROUGHNESS		SURFACES		CAGE NUMBER		SIZE		DRAWING NO.		REV.	
MARKED ONLY		ANGLES		D 78-5100-0478-7		E		MODEL		3000 SERIES	
				DET		LISTS		YES		NO	
				SHT		2		OF		4	

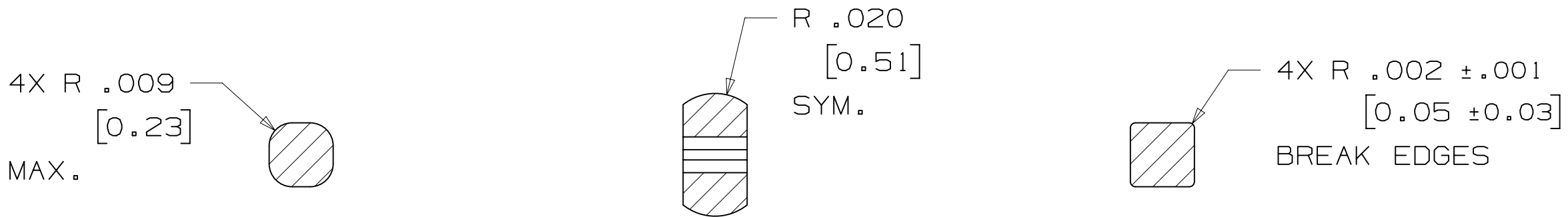
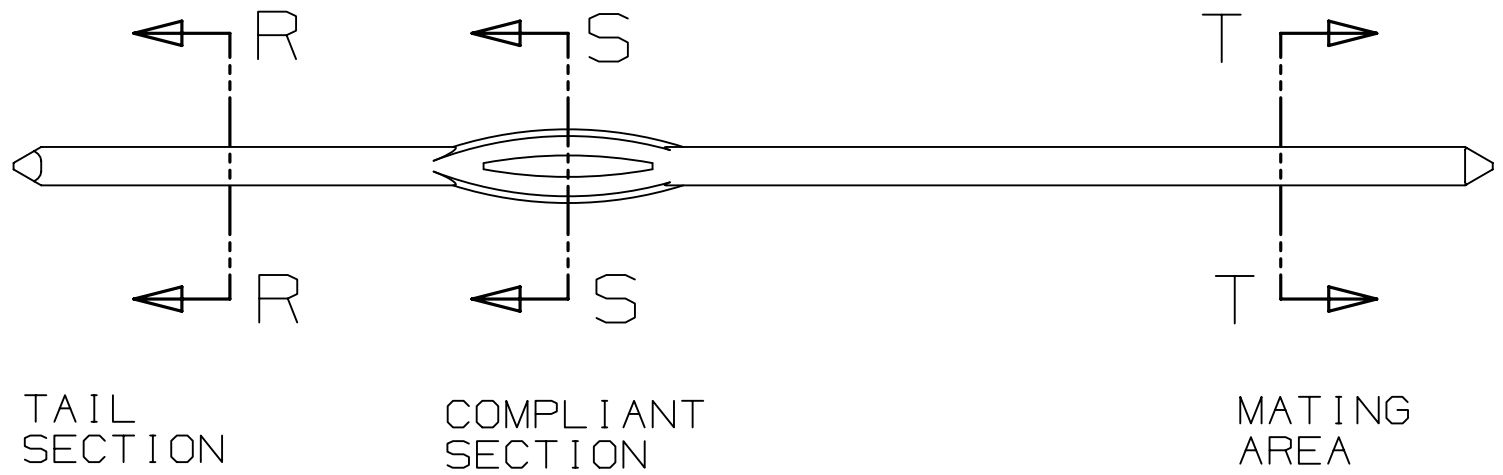
3M™ FOUR-WALL HEADER, 3000 SERIES
.100" X .100" LATCH/EJECTOR, STRAIGHT, COMPLIANT PIN



RECOMMENDED MOUNTING HOLE PATTERN

NOTE:
PCB HOLE SIZES AND TOLERANCES RECOMMENDED FOR USE WITH 3M'S COMPLIANT PIN HEADER. THE INSERTION FORCE IS DESIGNED NOT TO EXCEED 40 POUNDS PER PIN AND THE WITHDRAWAL FORCE IS NOT LESS THAN 10 POUNDS PER PIN.

HOLE SIZE FOR:
* PREFERRED DRILLED: $\phi .0453 \pm .0005$
* ACCEPTABLE DRILLED: $\phi .0453 \pm .0005 / - .0010$
* AFTER ETCHBACK: $\phi .0460$ MAX.
* AFTER PLATING: $\phi .040 \pm .003$
* BOARD THICKNESS: .093 TO .150
PLATING:
* .001 MIN. COPPER PLATING THICKNESS
* .0003 MIN. TIN PLATING



SECTION R-R SECTION S-S SECTION T-T

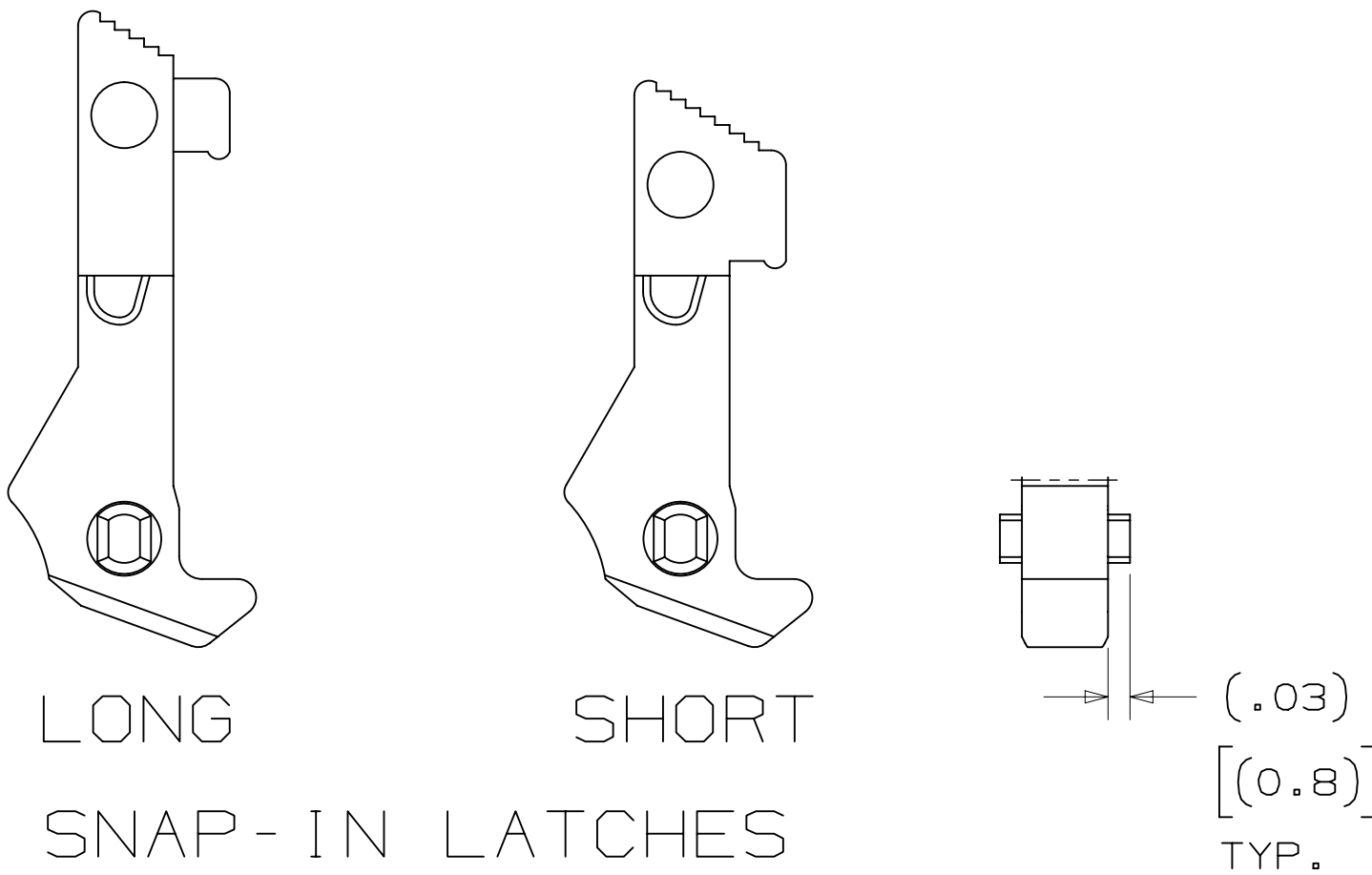
PART CUSTOMIZATION

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.

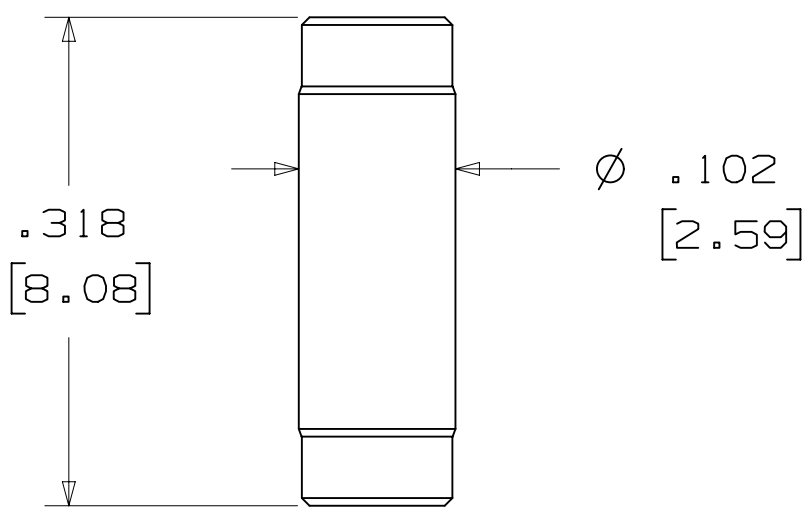
MATERIAL	SHORT LATCH	LONG LATCH	LATCH STYLE	COLOR
HIGH TEMP. (PCT)	N3505-2B	N3505-3B	ROLL PIN	BLACK
HIGH TEMP (PPA)	N3505-30B	N3505-31B	SNAP-IN	BLACK



LONG SHORT
SNAP-IN LATCHES

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

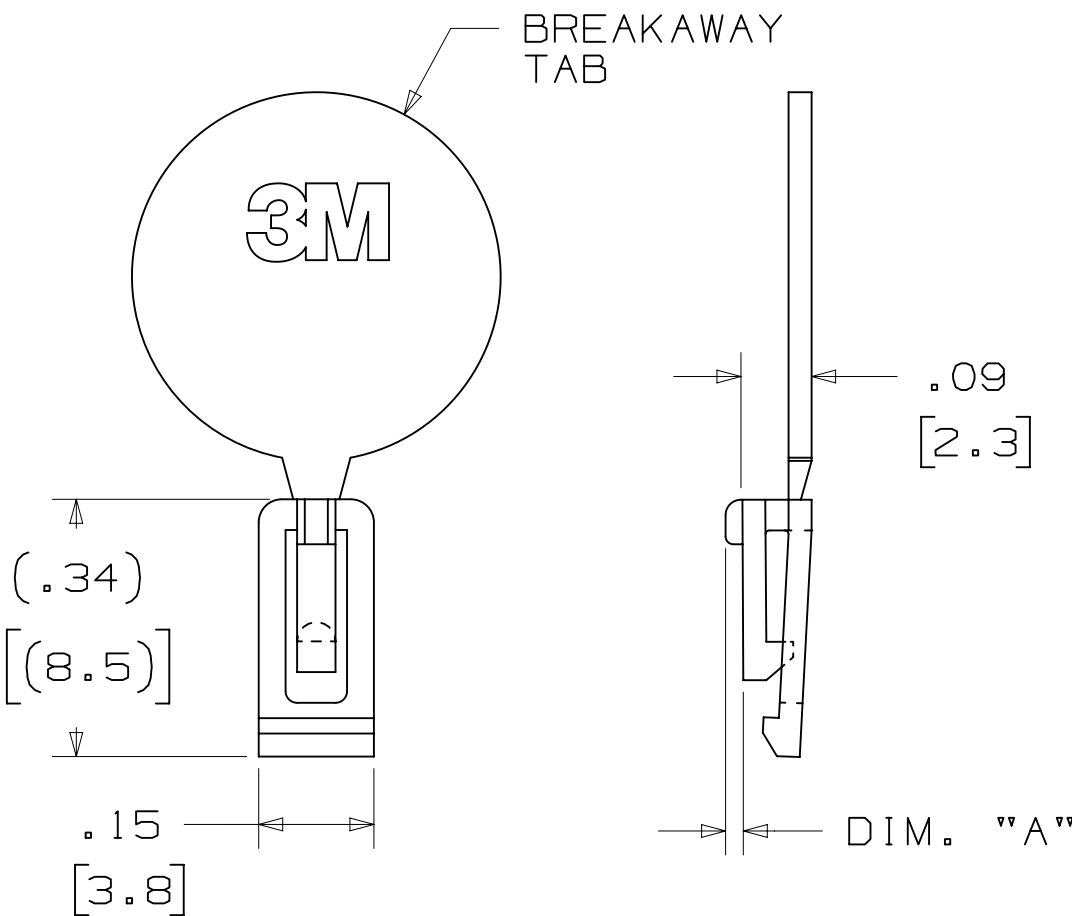
POLARIZING POST



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

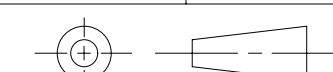
NOTE:
INSERT POST INTO ONE MOUNTING HARDWARE HOLE ON BOTTOM OF HEADER. SET POST TO PROTRUDE .115 [2.92]

POLARIZING KEY



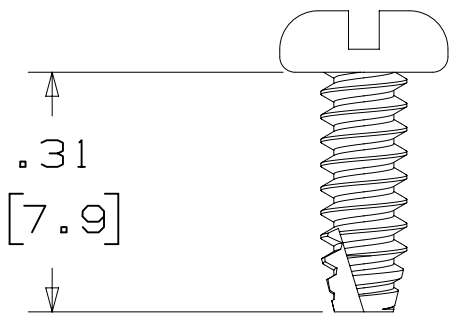
3M PART NO.	MATERIAL	COLOR	DIM. "A"
N3518	LCP	BLACK	.02

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

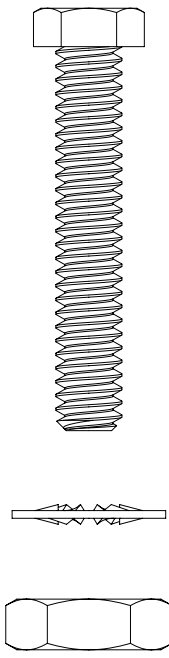
		E 56068		JUL 31, 2014		JNC	RS	
				REVISED AND REDRAWN				
DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ADDRESS CODES				CHG		JUL 31, 2014	MFG	DATE
				CHG			APPROV	DATE
							R. SCHERER	SEP 05, 2014
DIVISION		DIVISION CODE		 3M Center St. Paul, MN 55144		© 3M COPYRIGHT 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.		
Interconnect Solutions		EMSD						
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED				
				INCHES .00 ± .01 .00 ± .005 MILLIMETERS 0 ± .13 0 ± .13		TITLE HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STR, COMPLIANT PIN		
THIRD ANGLE PROJECTION								
INTERPRET PER ASME Y14.5 - 2009								
MAX SURFACE ROUGHNESS				CAGE NUMBER		SIZE		DRAWING NO.
☒ UNFINISHED SURFACES				D		78-5100-0478-7		REV.
☒ MARKED ONLY				MODEL		3000 SERIES		DET. LISTS
						YES ☒ NO		SHT 3 OF 4

3M™ FOUR-WALL HEADER, 3000 SERIES
.100" X .100" LATCH/EJECTOR, STRAIGHT, COMPLIANT PIN

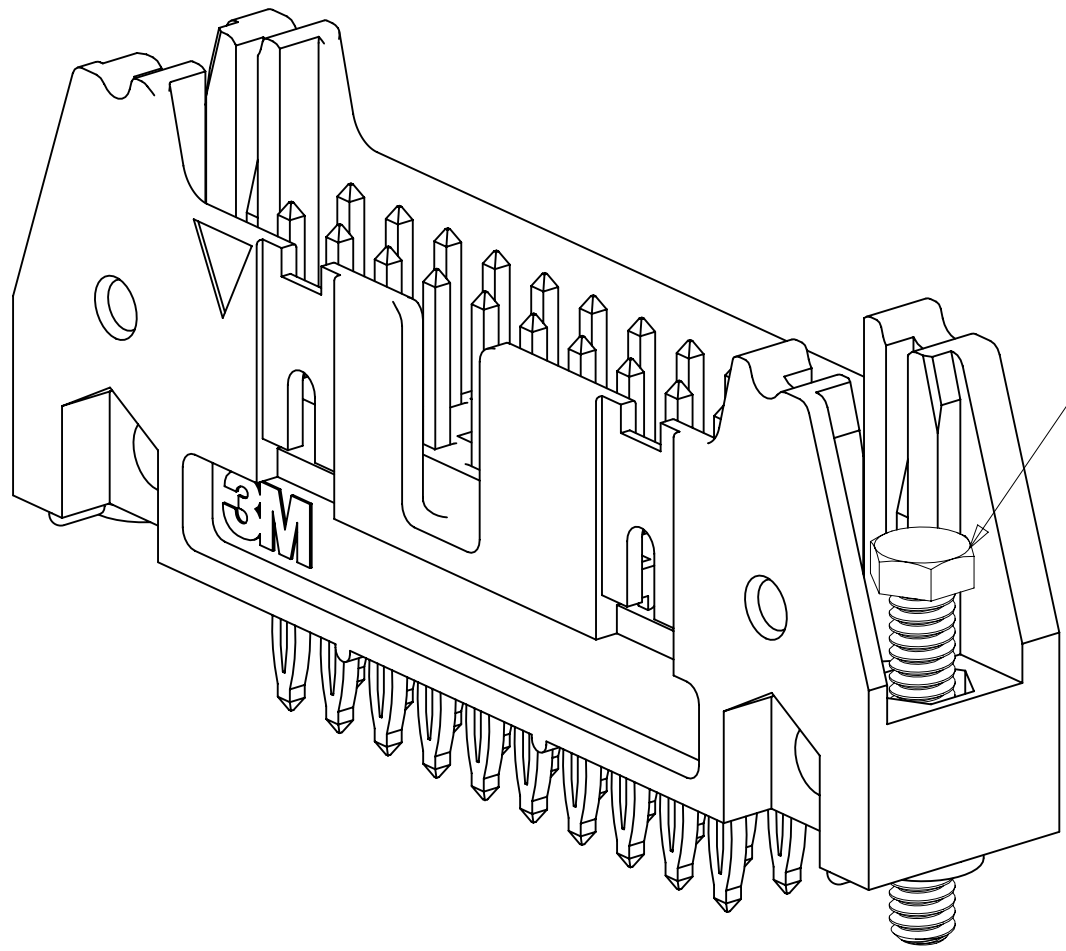
MOUNTING HARDWARE



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

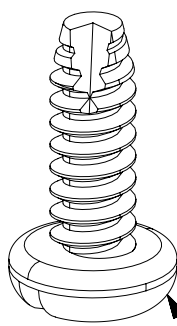
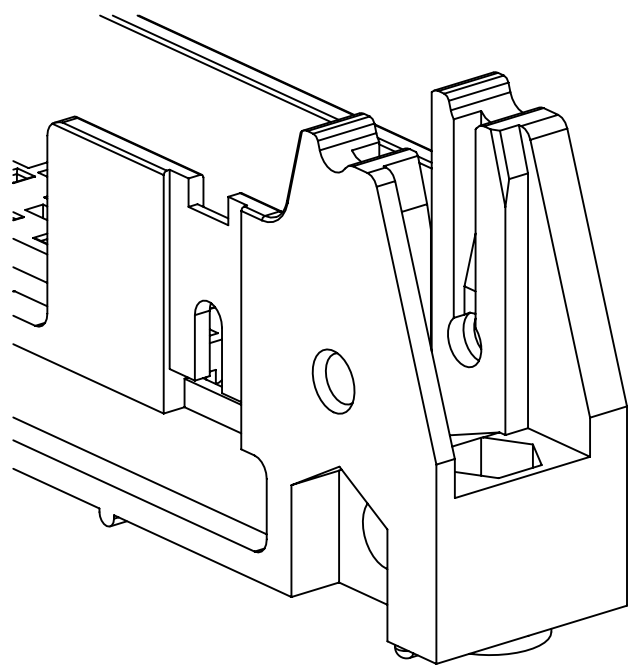


3341-6
HEX HEAD BOLT, NUT AND WASHER:
BOLT - #2-56 X 1/2"
MATERIAL: STAINLESS STEEL



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

3341-6
#2-56 NUT AND BOLT
TORQUE FOR EACH BOLT: 1.25 - 3.125 INCH LBS.



3341-5
#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.

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XREF CODES		XREF CODES		DRP	DATE	MFG		DATE	
				CHKD	DATE	APPR		DATE	
DIVISION		DIVISION CODE		E 56068		JUL 31,2014		JNC	RS
Interconnect Solutions		EMSD		REVISED AND REDRAWN					
DO NOT SCALE DRAWING		SCALE 4/1		TOLERANCES EXCEPT AS NOTED		3M		3M Center St. Paul, MN 55144	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		INCHES .00 ± .01 .000 ± .0005 .0000 ±		MILLIMETERS 0 ± .00 ± .03 .00 ± .13 .000 ±		© 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.	
MAX SURFACE ROUGHNESS		MARKED ONLY		TITLED		CAGE NUMBER		DRAWING NO.	
				D 78-5100-0478-7		REV. E		SHT 4 OF 4	
				MODEL		3000 SERIES			