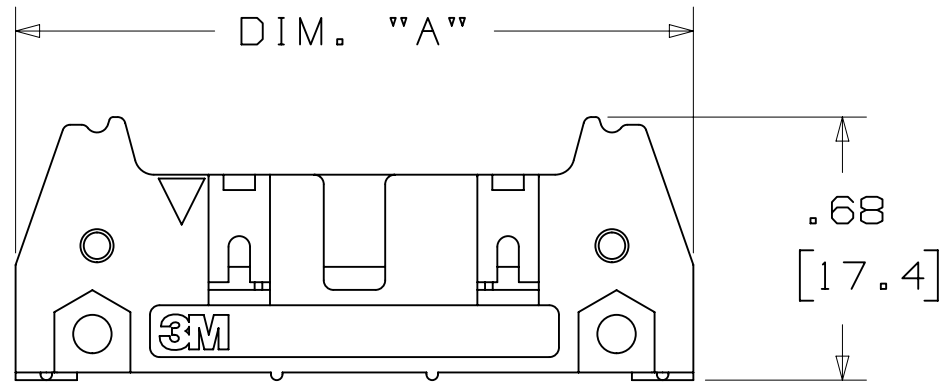


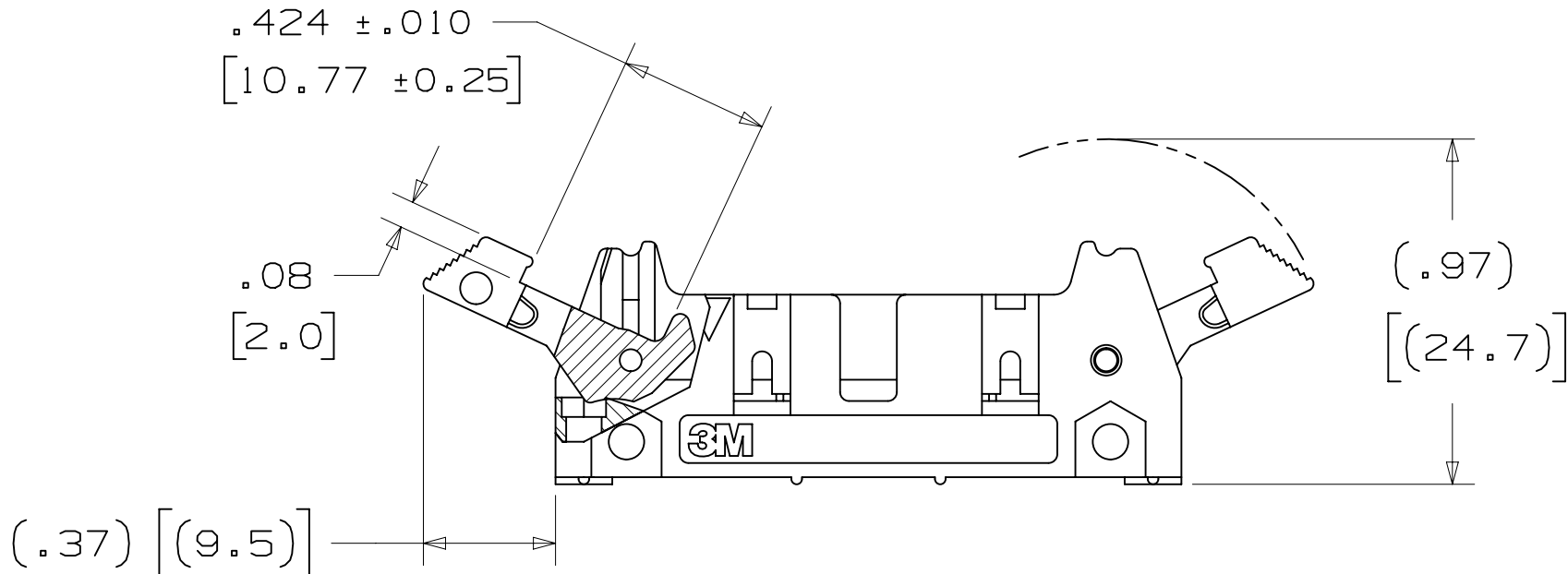
3M™ FOUR-WALL HEADER, 3000 SERIES

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



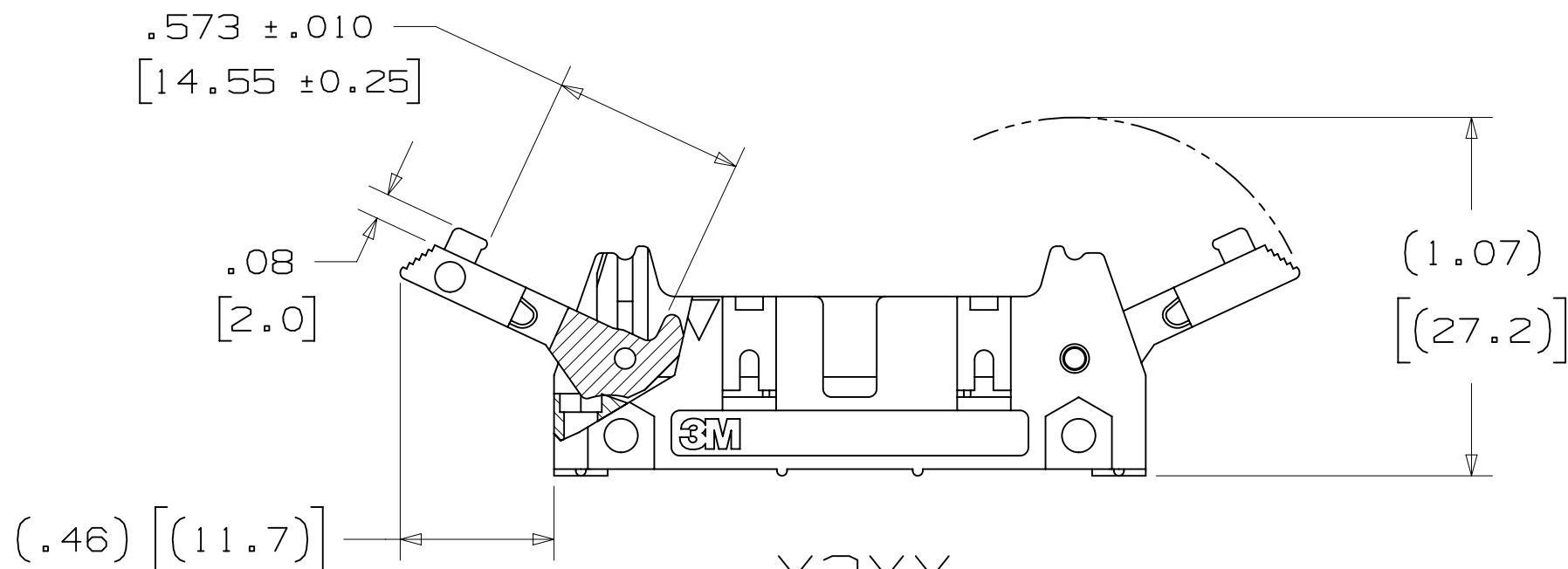
-X0XX

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

X3XXX-XXXXXX

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>

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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.

- NOTES
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
CODES				DATE	DATE	DATE
				JUL 25, 2014		
				R. SCHERER		
				SEP 05, 2014		
DIVISION	DIVISION CODE					
Interconnect Solutions	EMSD					
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				
12.5 SURFACES						
✓ MARKED ONLY						
TITLE		HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA				
CAGE NUMBER	SIZE	DRAWING NO.	REV.			
D	78-5100-0772-3	S				
MODEL	3000 SERIES	DET	LISTS	YES	NO	SHT 1 OF 4

UL FILE NO: E68080

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

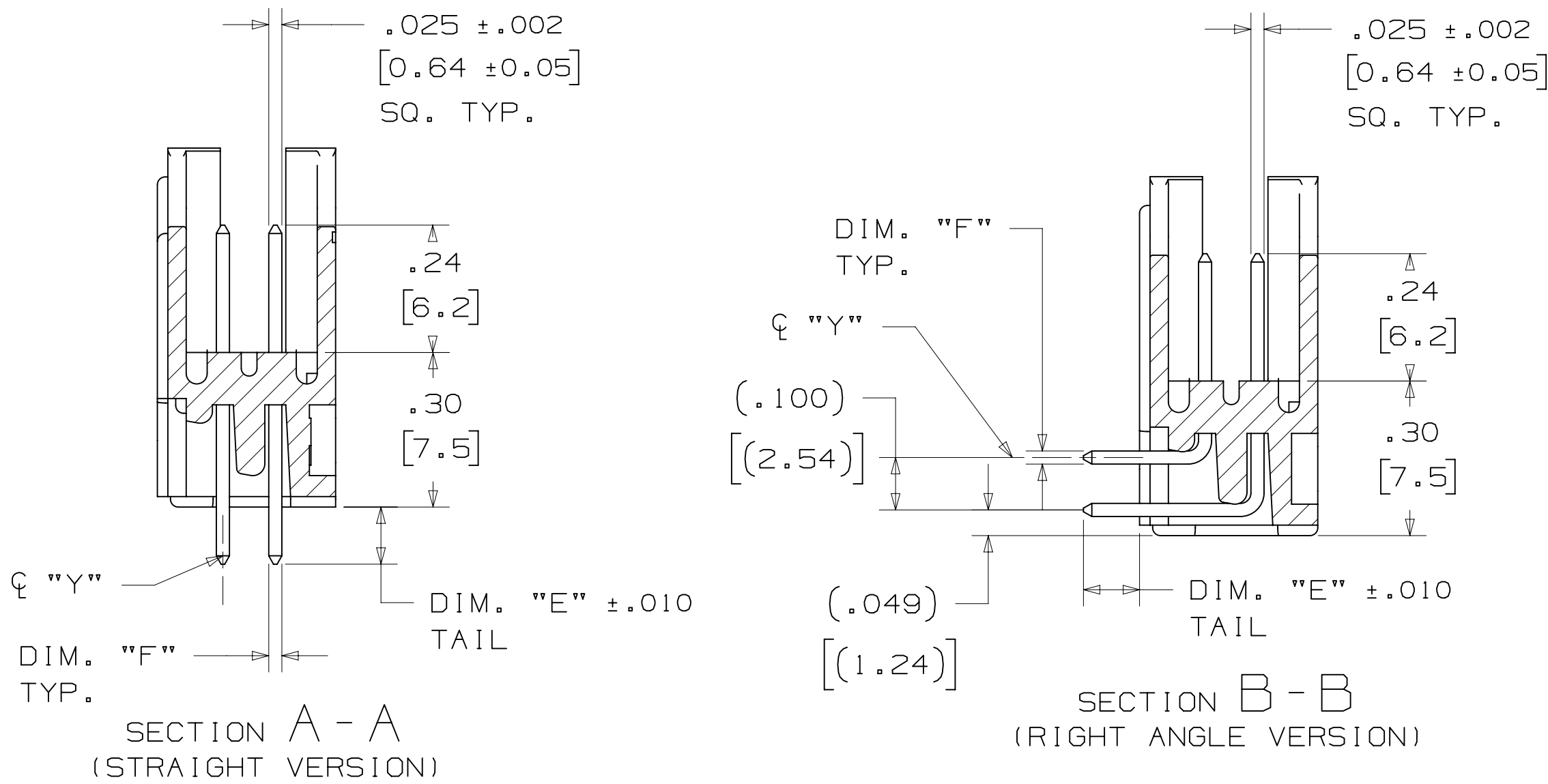
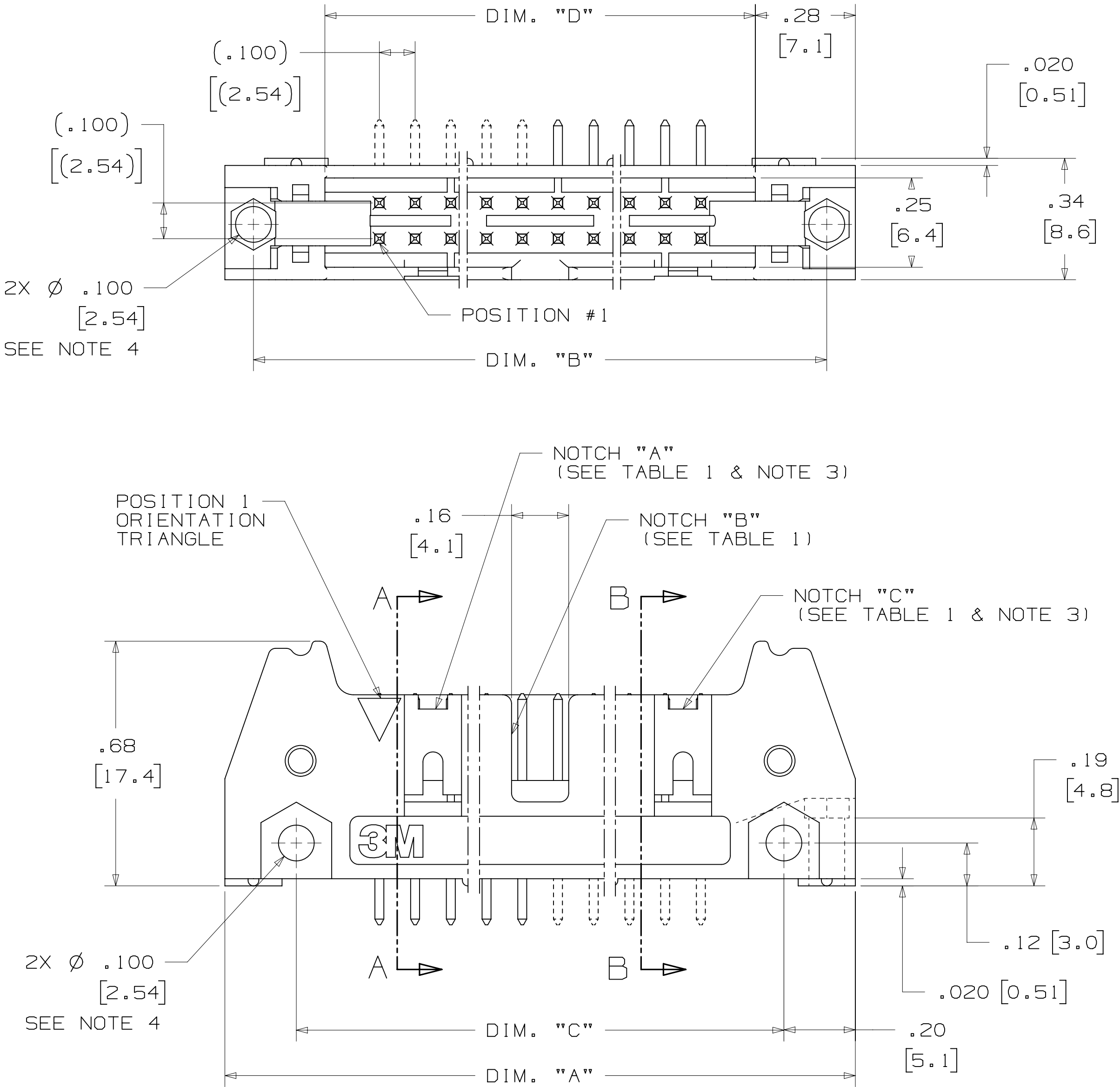


TABLE 1							
PIN QTY.	3M PART NUMBER	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	POLARIZING NOTCHES	PIN QTY.
06	3869	1.06 [27.0]	.905 [22.99]	.665 [16.89]	.51 [12.9]	B*	06
08	3889	1.16 [29.5]	1.005 [25.53]	.765 [19.43]	.61 [15.5]	B*	08
10	3793	1.26 [32.1]	1.105 [28.04]	.865 [21.97]	.71 [18.0]	BC	10
14	3314	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

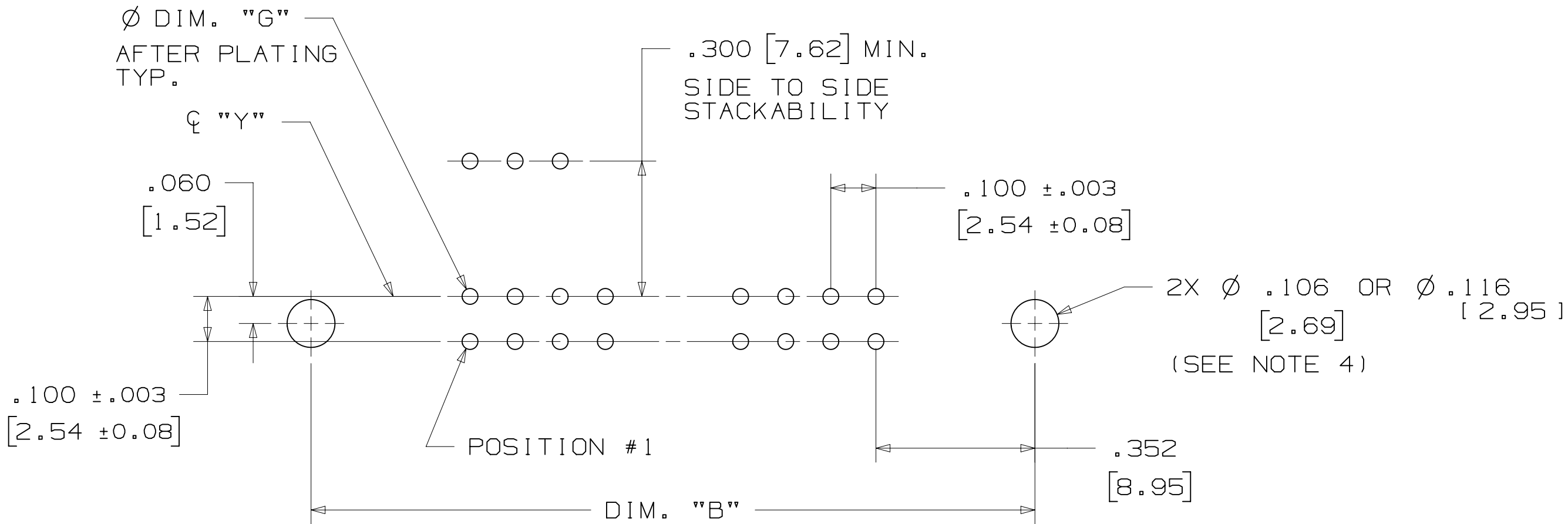
TABLE 2						
3M PART NUMBER SUFFIX	CONTACT TAIL	DIM. "E"	PIN CROSS SECTION			DIM. "G"
-5XX2	.062 [1.57] THICK PC BOARD	.112 [2.84]	DIM. "F" .0245+/- .0005 [.622]	DIAGONALS .028+/- .001 [.71]	CORNER RADIUS .0075 REF. [.191]	.035+/- .003 [.89] SEE NOTE 5
-6XX2						
-5X03	.094 [2.39] TO .125 [3.18] THICK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



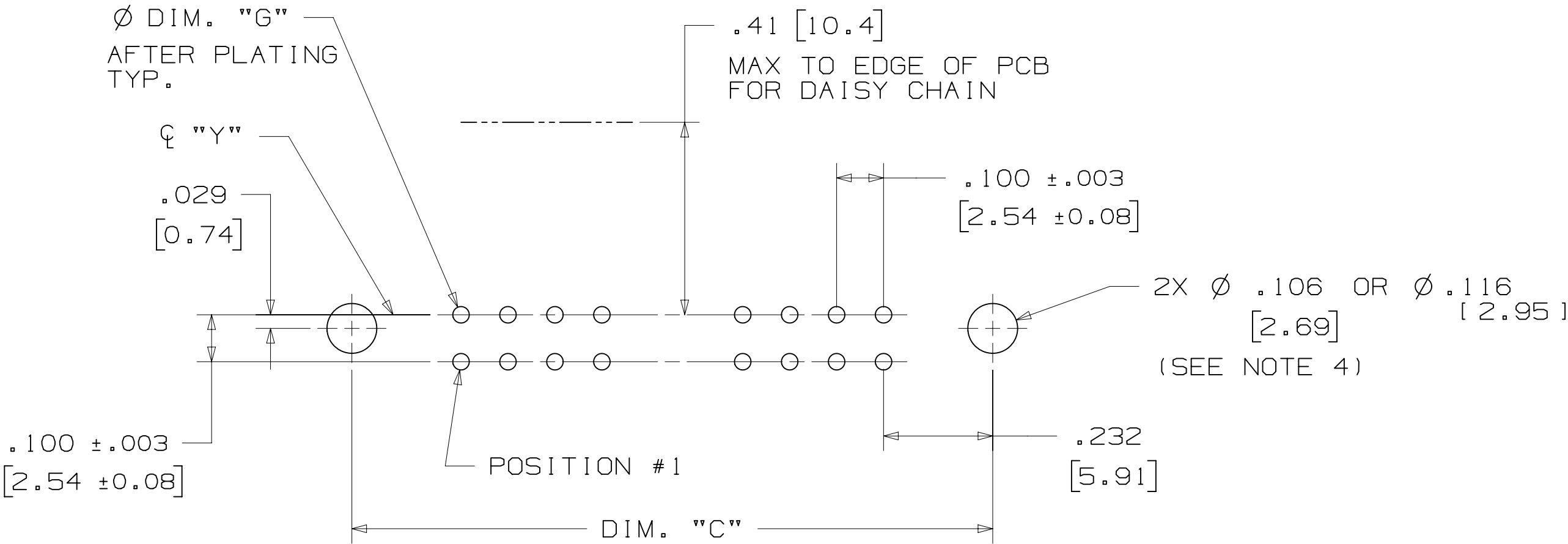
DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
3M CODES		DR	CASTIGLIONE	DATE JUL 25, 2014	DATE	
DIVISION	Interconnect Solutions	DIVISION CODE	EMSD	APPR	R. SCHERER	DATE SEP 05, 2014
DO NOT SCALE DRAWING	SCALE 4 1	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION		INCHES				
MAX SURFACE ROUGHNESS		MILLIMETERS				
MARKED ONLY		ANGLES				

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TITLE	HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA	
CAGE NUMBER	SIZE	DRAWING NO.
D	78-5100-0772-3	S
MODEL	3000 SERIES	DET
LISTS	YES	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

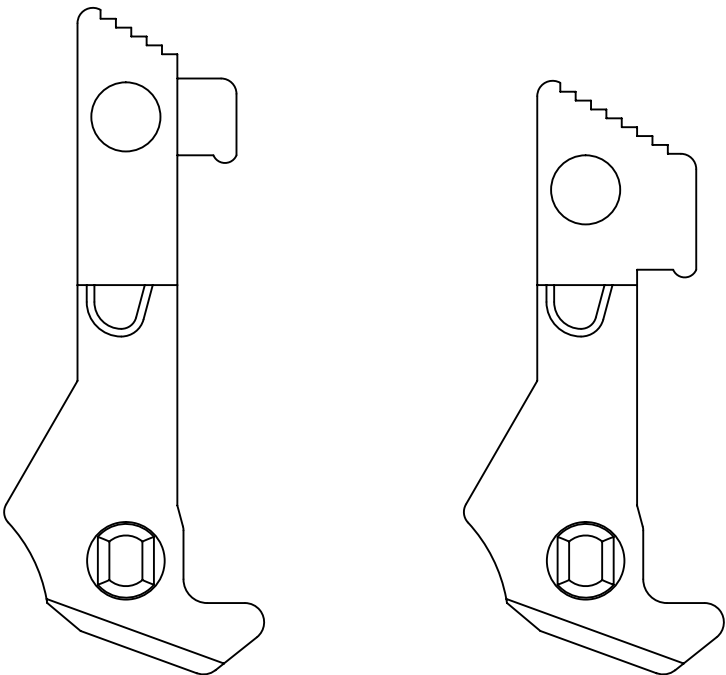
THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

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

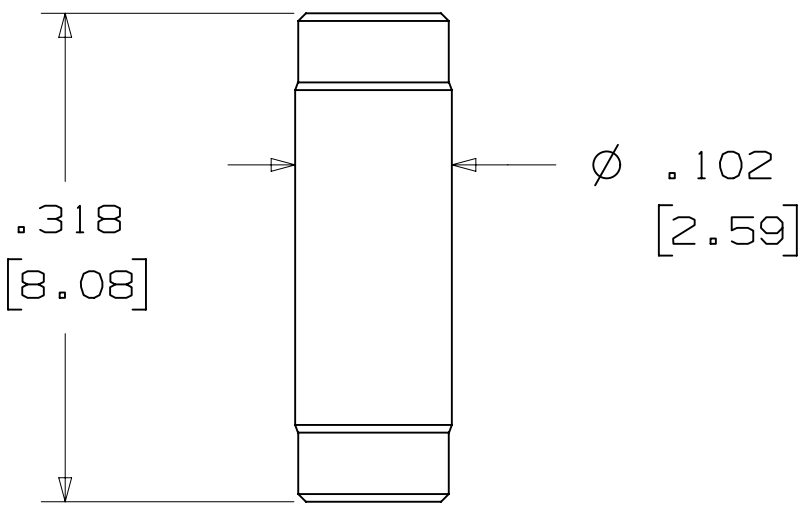


LONG SHORT

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

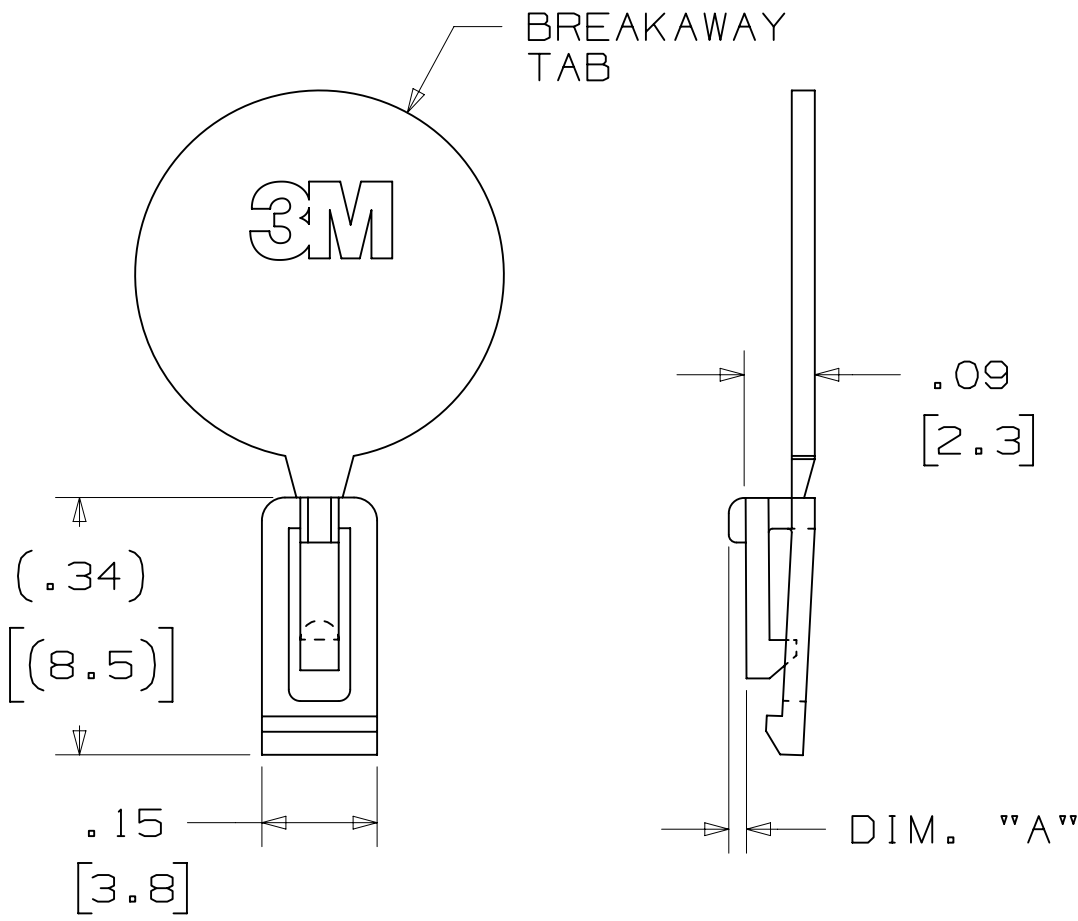
NOTE:
INSERT POST INTO ONE MOUNTING HARDWARE HOLE ON BOTTOM OF HEADER. SET POST TO PROTRUDE .115 [2.92]

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



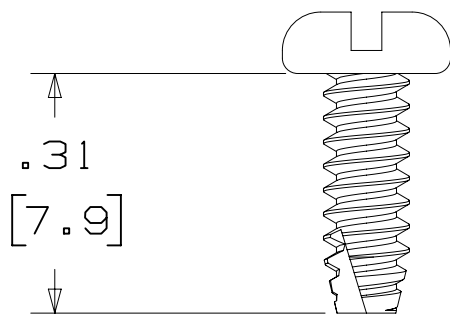
3M PART NO.	MATERIAL	COLOR	DIM. 'A'
N3518	LCP	BLACK	.02

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

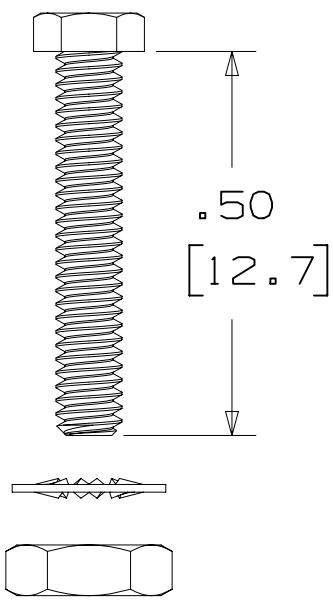
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DIVISION		DIVISION CODE		DATE		DATE		DATE		DATE		DATE	
Interconnect Solutions		EMSD		JUL 25, 2014		JUL 25, 2014		JUL 25, 2014		JUL 25, 2014		JUL 25, 2014	
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		INCHES .00 ±.01 .000 ±.005 .0000 ±		MILLIMETERS 0 ±.3 .00 ±.13 .000 ±		INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS 12.5 SURFACES	
THIRD ANGLE PROJECTION		MARKED ONLY		CAGE NUMBER		SIZE		DRAWING NO.		REV.		DET	
3M		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.		D 78-5100-0772-3		S		SHT 3 OF 4	
MODEL		3000 SERIES		LISTS		YES		NO		SHT		3	

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

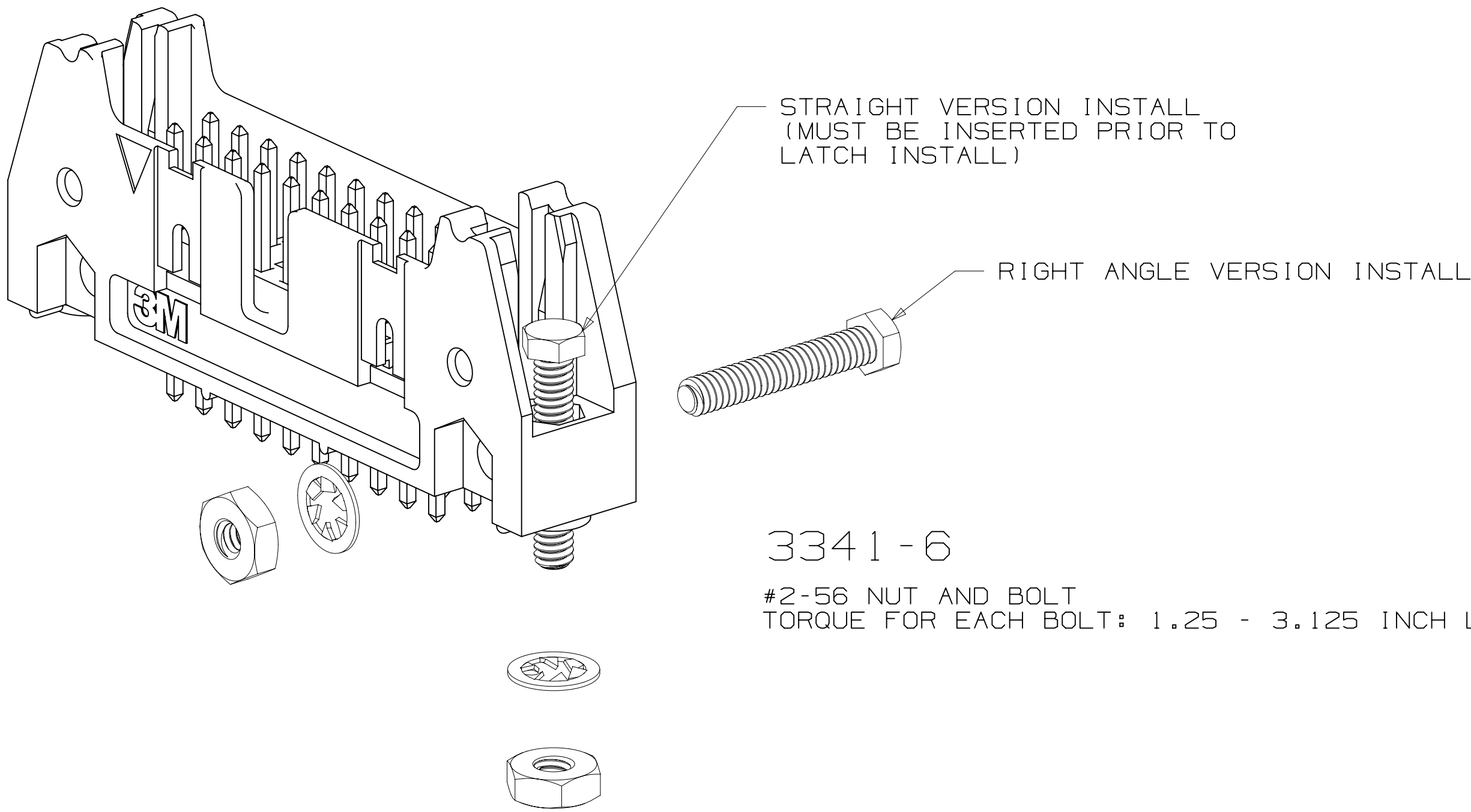
MOUNTING HARDWARE



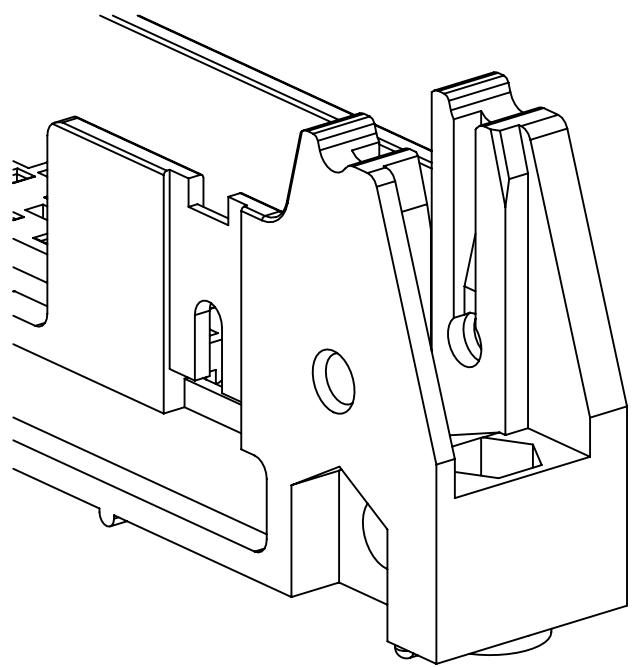
3341-5
(INSTALL FROM BOTTOM OF BOARD)
PANHEAD THREAD CUTTING SCREW:
#4-24 X 5/16"
TYPE: USA STD BT, FEDERAL BG
MATERIAL: STAINLESS STEEL



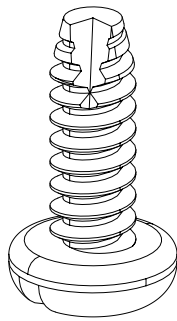
3341-6
HEX HEAD BOLT, NUT AND WASHER:
BOLT - #2-56 X 1/2"
MATERIAL: STAINLESS STEEL



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		DATE		DATE		DATE	
Interconnect Solutions		EMSD		3M Center		St. Paul, MN 55144		© 3M COPYRIGHT 2015	
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS		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		3000 SERIES		SHT 4 OF 4	
MODEL		DET		YES		NO		SHT	