

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



X3XXX-XXXXXX

UL
UL FILE NO: E68080

- * MILITARY (WITH 3M'S N3518 POLARIZING KEY) AND CENTERBUMP POLARIZATION.
- * LOW PROFILE.
- * OPTIONAL EJECTOR LATCHES.
- * MOUNTING HOLES FOR SECURING HEADER TO BOARD.
- * THREE WALL SHROUD PROVIDES DESIGN FLEXIBILITY.
- * SOLDER TAIL AND WRAP TAIL OPTIONS.
- * OPTIONAL POLARIZING POSTS AVAILABLE.
- * HIGH TEMPERATURE INSULATOR SUITABLE FOR "NO LEAD" SOLDERING OPERATIONS.
- * SUITABLE FOR REFLOW SOLDERING USING "PASTE IN HOLE" TECHNIQUES.

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INSULATOR:
MATERIAL: GLASS FILLED POLYESTER (PCT)
FLAMMABILITY: UL94V-0
COLOR: BLACK
CONTACT:
MATERIAL: COPPER ALLOY
PLATING:
UNDER PLATING: 100μ" [ 2.54μm ] NICKEL-OVERALL
WIPING AREA: 30μ" [ 0.76μm ] AVG. GOLD
SOLDER TAILS: 200μ" [ 5.08μm ] TIN LEAD OR MATTE TIN (SEE ORDERING INFORMATION)
MARKINGS: 3M LOGO, PART IDENTIFICATION NUMBER AND ORIENTATION TRIANGLE

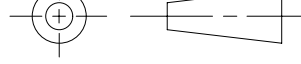
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CURRENT RATING: 5.00A, 1 CONTACT POWERED
3.00A, 6 CONTACTS POWERED
1.75A, ALL CONTACTS POWERED
RATING CONDITIONS: EIA-364-070 METHOD 2, 30°C MAXIMUM
TEMPERATURE RISE, 20% DERATED. REFERENCE APPROPRIATE
3M PRODUCT SPECIFICATION FOR DETAILED CURRENT DERATING
CURVES.
ON-STATE RESISTANCE: $>1 \times 10^9 \Omega$ AT 500 V_{DC}
STANDING VOLTAGE: 1,000V_{RMS} AT SEA LEVEL

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)

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 ACCOMMODATE
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).

DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION				DRFT		CHKD	
ADDENDUM CODES				DRFT CASTIGLIONE				DATE 05/14				MFG DATE		DATE 05/14	
DIVISION Interconnect Solutions				DIVISION CODE EMSD				DRFT R. SCHERER				DATE SEP 05, 2014			
DO NOT SCALE DRAWING		SCALE 2 1		TOLERANCES EXCEPT AS NOTED				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.							
															
THIRD ANGLE PROJECTION				INTERPRET PER ASME Y14.5 - 2009				TITLE HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA							
MAX. SURFACE ROUGHNESS 125 100 80 63 50 40 32 25 20 16 12.5 10 8 6.3 5 4 3.2 2.5 2 1.6 1.25 1 0.8 0.63 0.5 0.4 0.32 0.25 0.2 0.16 0.125 0.1 0.08 0.063 0.05 0.04 0.032 0.025 0.02 0.016 0.0125 0.01 0.008 0.0063 0.005 0.004 0.0032 0.0025 0.002 0.0016 0.00125 0.001 0.0008 0.00063 0.0005 0.0004 0.00032 0.00025 0.0002 0.00016 0.000125 0.0001 0.00008 0.000063 0.00005 0.00004 0.000032 0.000025 0.00002 0.000016 0.0000125 0.00001 0.000008 0.0000063 0.000005 0.000004 0.0000032 0.0000025 0.000002 0.0000016 0.00000125 0.000001 0.0000008 0.00000063 0.0000005 0.0000004 0.00000032 0.00000025 0.0000002 0.00000016 0.000000125 0.0000001 0.00000008 0.000000063 0.00000005 0.00000004 0.000000032 0.000000025 0.00000002 0.000000016 0.0000000125 0.00000001 0.000000008 0.0000000063 0.000000005 0.000000004 0.0000000032 0.0000000025 0.000000002 0.0000000016 0.00000000125 0.000000001 0.0000000008 0.00000000063 0.0000000005 0.0000000004 0.00000000032 0.00000000025 0.0000000002 0.00000000016 0.000000000125 0.0000000001 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3M™ THREE-WALL HEADER, 3000 SERIES

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

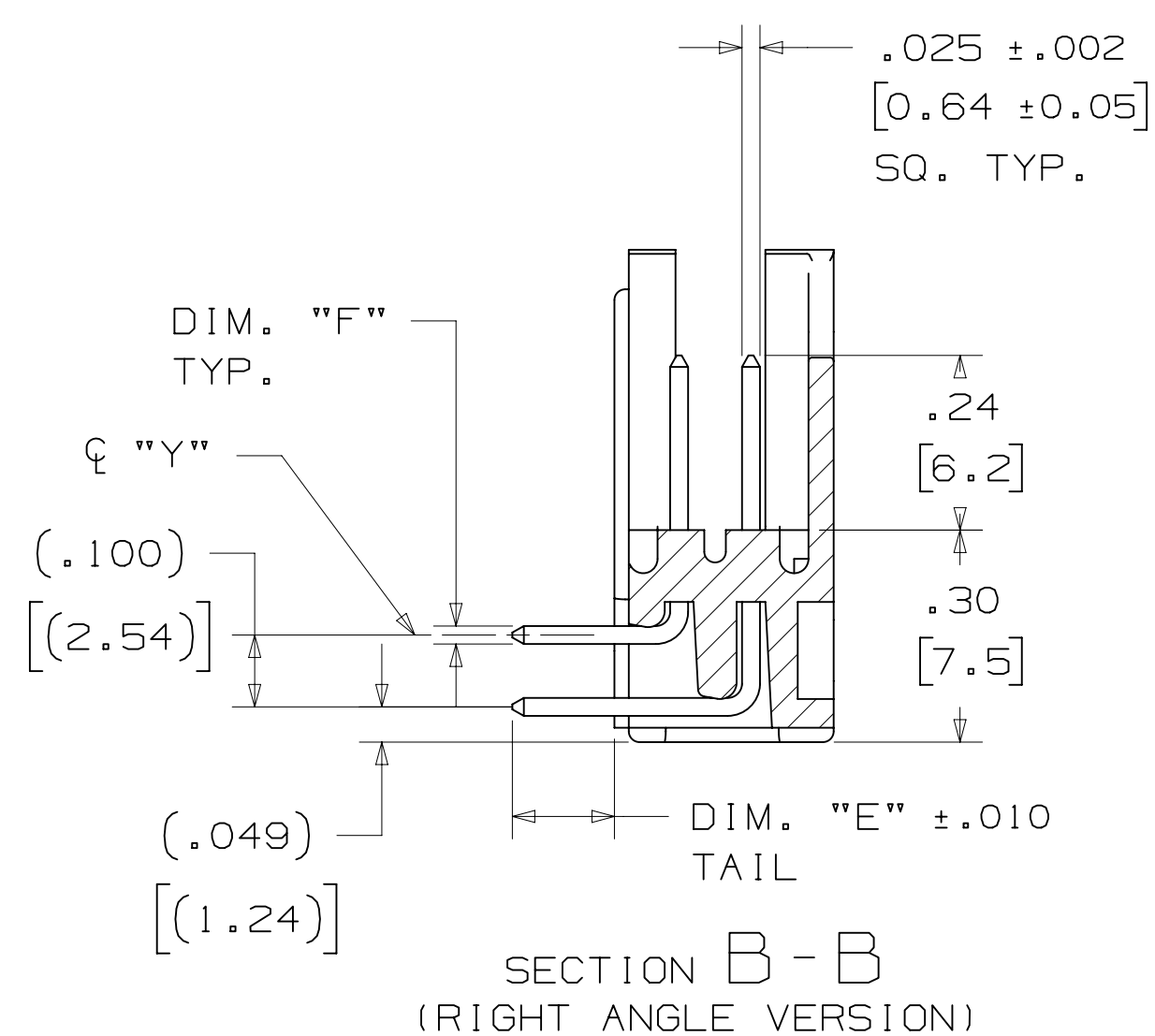
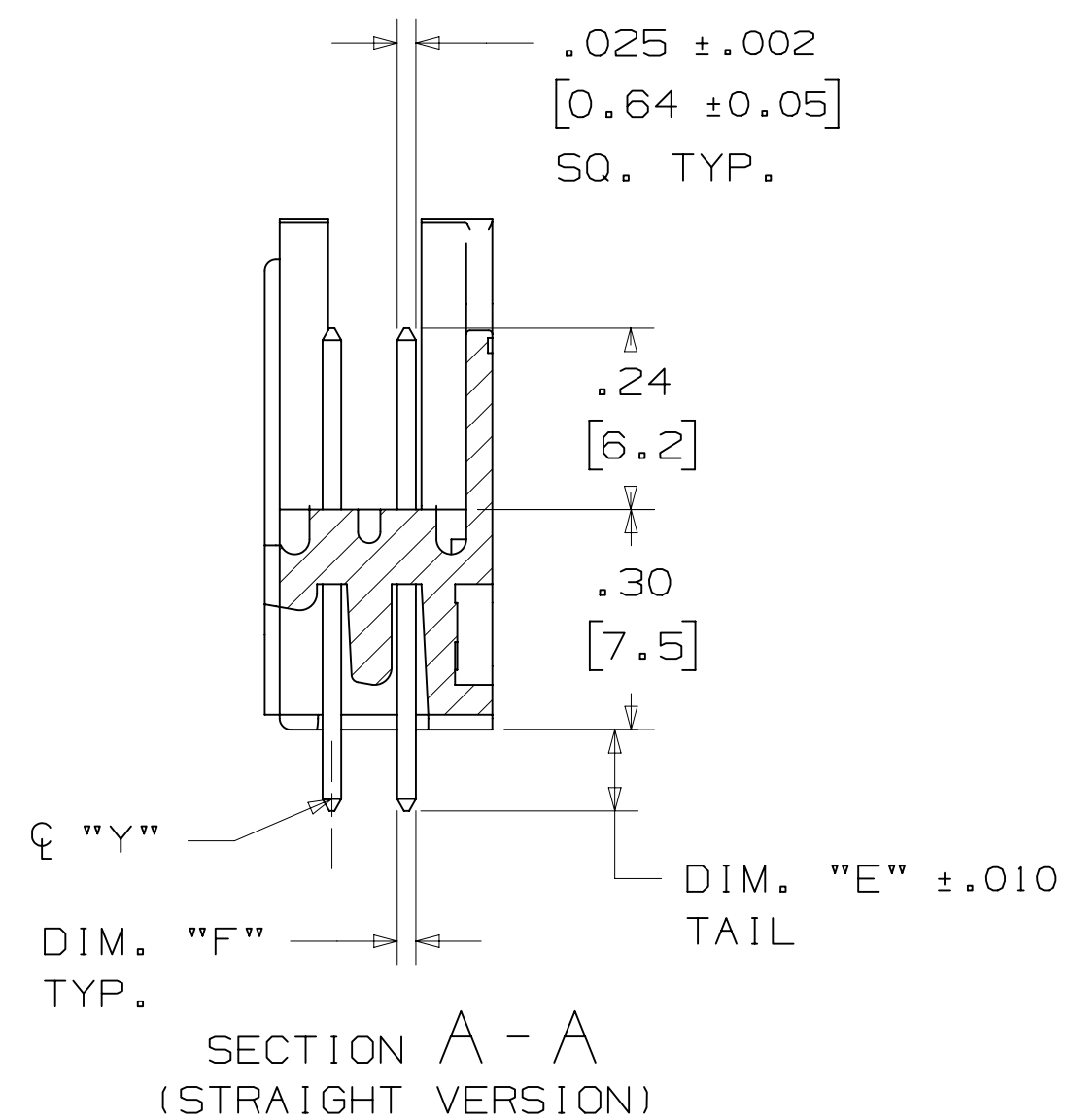
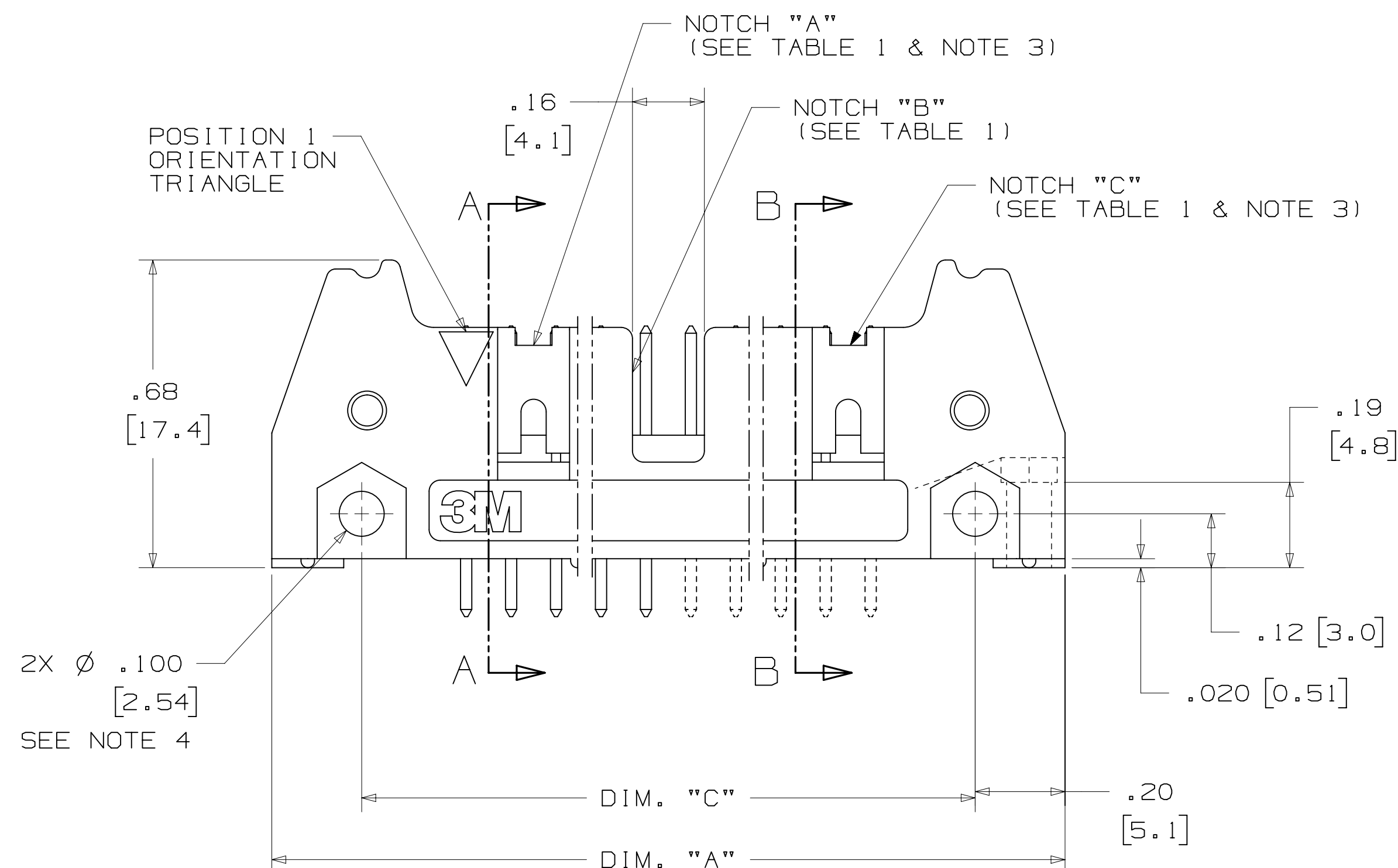
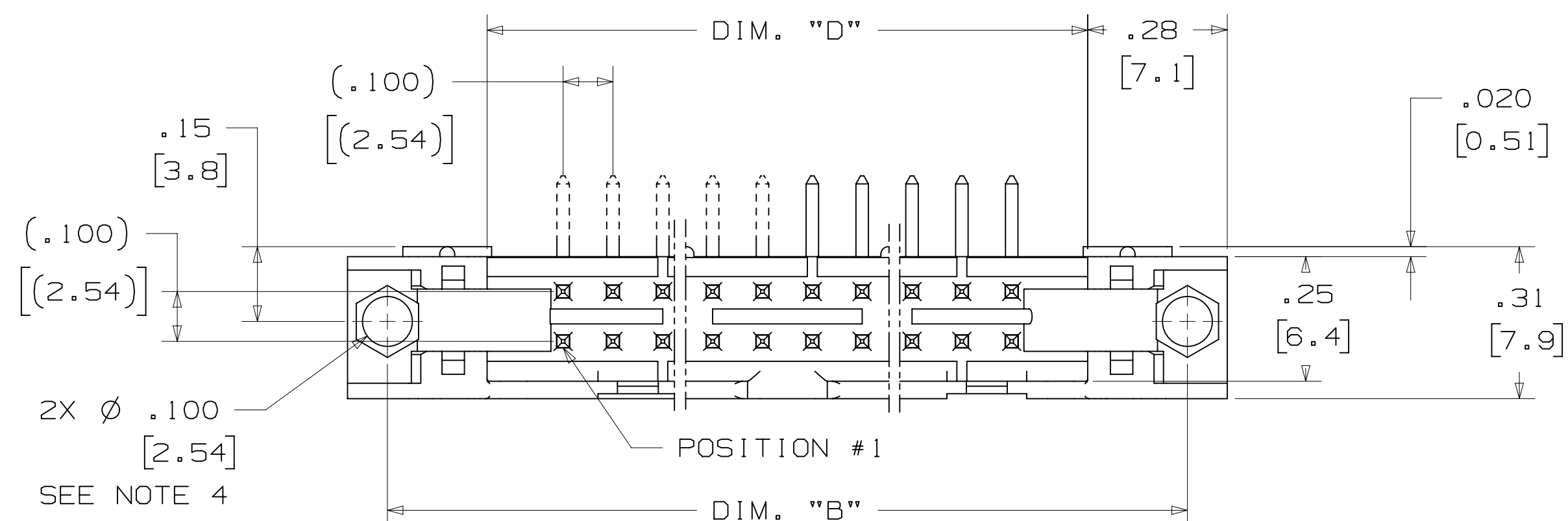


TABLE 1							
PIN QTY.	3M PART NUMBER	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	POLARIZING NOTCHES	PIN QTY.
10	3793	1.26 [32.1]	1.105 [28.04]	.865 [21.97]	.71 [18.0]	BC	10
14	3314	1.46 [37.2]	1.305 [33.12]	1.065 [27.05]	.91 [23.1]	BC	14
16	3408	1.56 [39.7]	1.405 [35.66]	1.165 [29.59]	1.01 [25.6]	ABC	16
20	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	.062 [1.57] THICK PC BOARD	.112 [2.84]	DIM. "F"	DIAGONALS	CORNER RADIUS	.035+/- .003 [.89] SEE NOTE 5
-2XX2			.0245+/- .0005 [.622]	.028+/- .001 [.71]	.0075 REF. [.191]	
-1X03	.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]
-2X03						



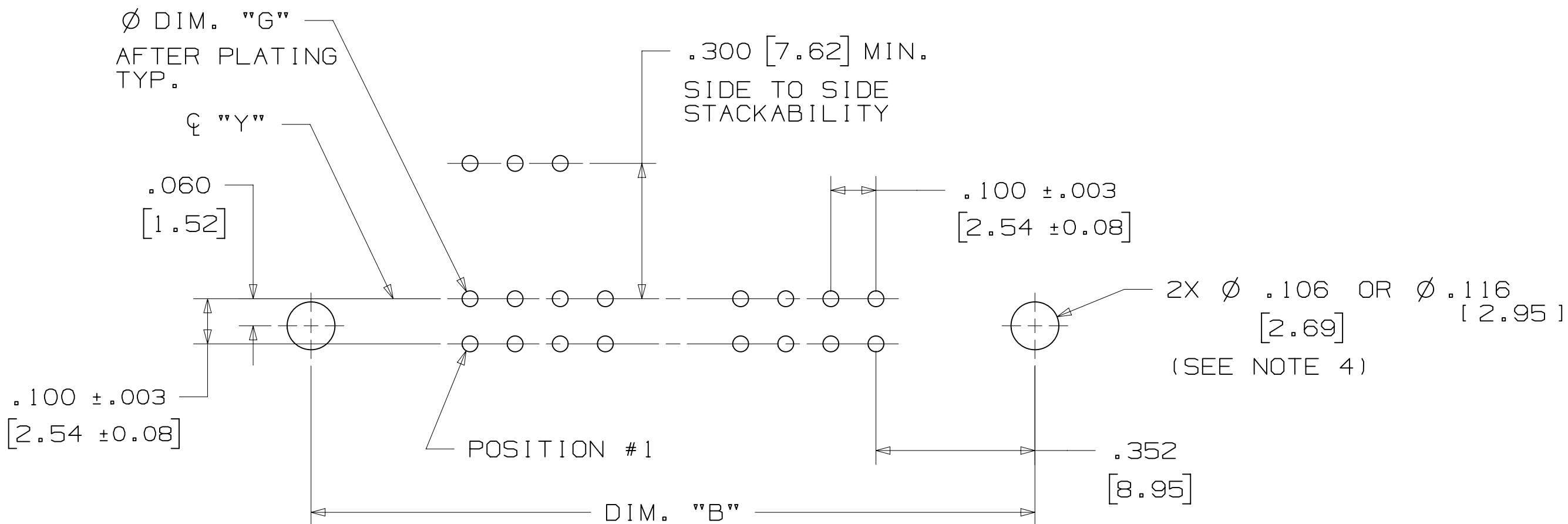
H	60056	MAR 06,2015		JNC	RS
		REVISE ORDERING			RS
G	56068	AUG 05,2014		JNC	RS
		REVISED AND REDRAWN			
REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DRFT	CASTIGLIONE		DATE	APPR	DATE
			AUG 05,2014	R. SCHERER	SEP 05,2014
CHKD	DATE		APPR	DATE	
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3M Center St. Paul, MN 55144					
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	STS	☐ YES ☐ NO	SHT 2 OF 4

DESIGN REFERENCE				NEXT ASSEMBLY			
Access codes							
DIVISION				DIVISION CODE			
Interconnect Solutions				EMSD			
DO NOT SCALE DRAWING		SCALE $\frac{\quad}{1}$		TOLERANCES EXCEPT AS NOTED			
				INCHES			
THIRD ANGLE PROJECTION				.0 ± .00 ± .01 .000 ± .005 .0000 ±			
INTERPRET PER ASME Y14.5 - 2009				MILLIMETERS			
				0 ± .0 ± .3 .00 ± .13 .000 ±			
MAX. SURFACE ROUGHNESS							
☒ SURFACES							
☐ MARKED ONLY				ANGLES			

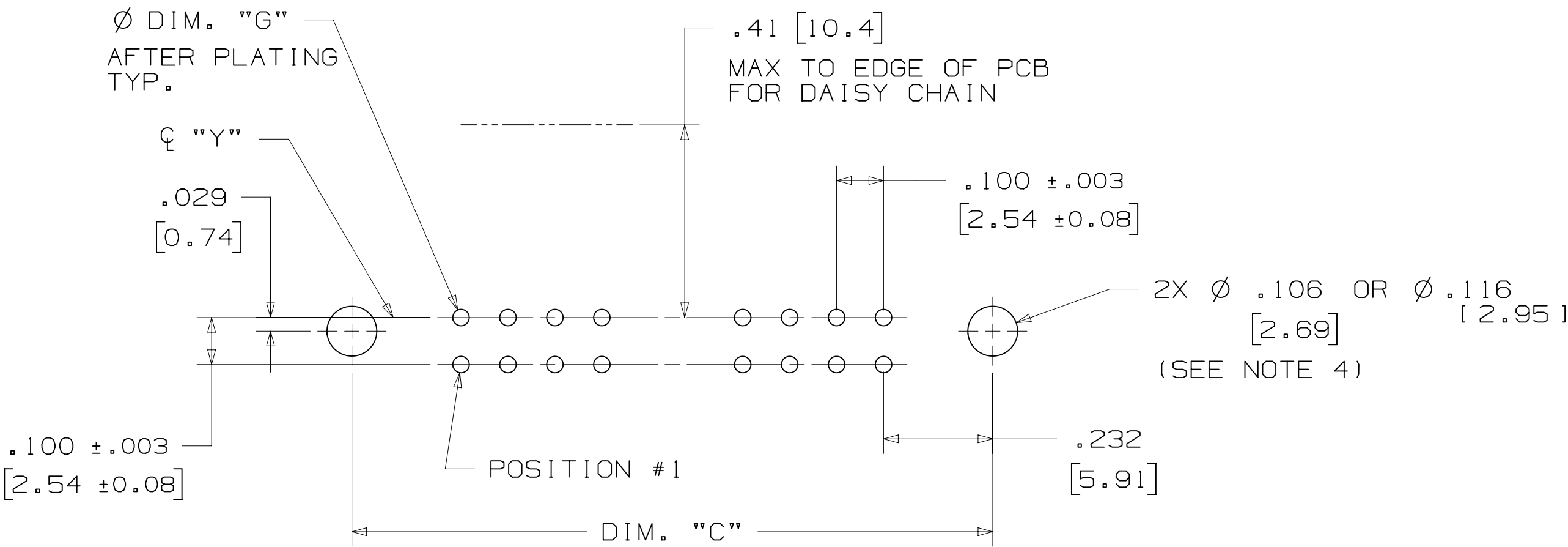
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TITLE		HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA	

CAGE NUMBER	SIZE D	DRAWING NO. 78-5100-0771-5	REV. H
MODEL 3000 SERIES		DET. LISTS ☐ YES ☒ NO	SHT 2 OF 4

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

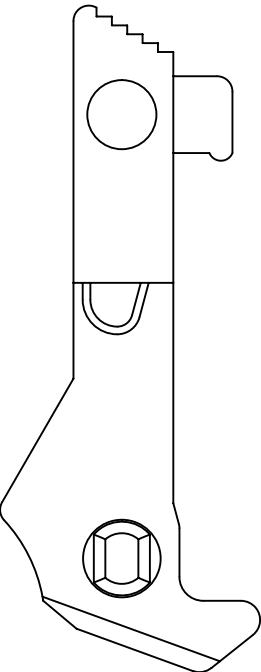
THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

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.

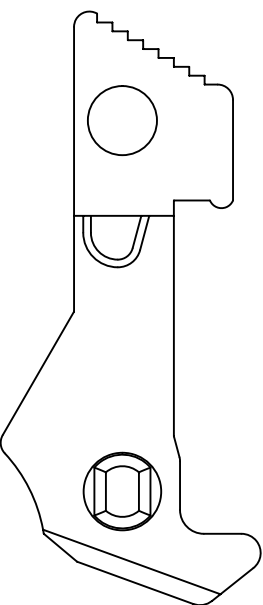
BOTH SNAP-IN AND ROLL PIN LATCHES MAY BE ORDERED SEPARATELY. SNAP-IN AND ROLL PIN STYLE LATCHES ARE DIMENSIONALLY AND FUNCTIONALLY EQUIVALENT. IF ORDERING SNAP-IN OR ROLL PIN STYLE LATCHES SEPARATELY, PLEASE USE THE BELOW CHART.

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

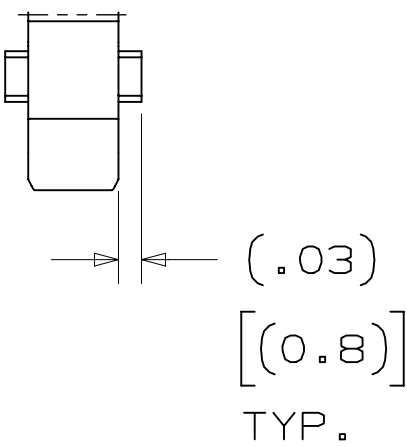


LONG



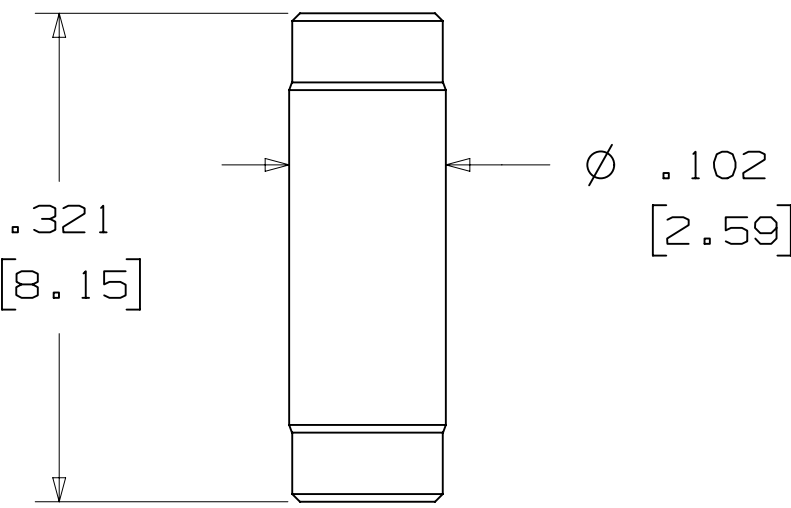
SHORT

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

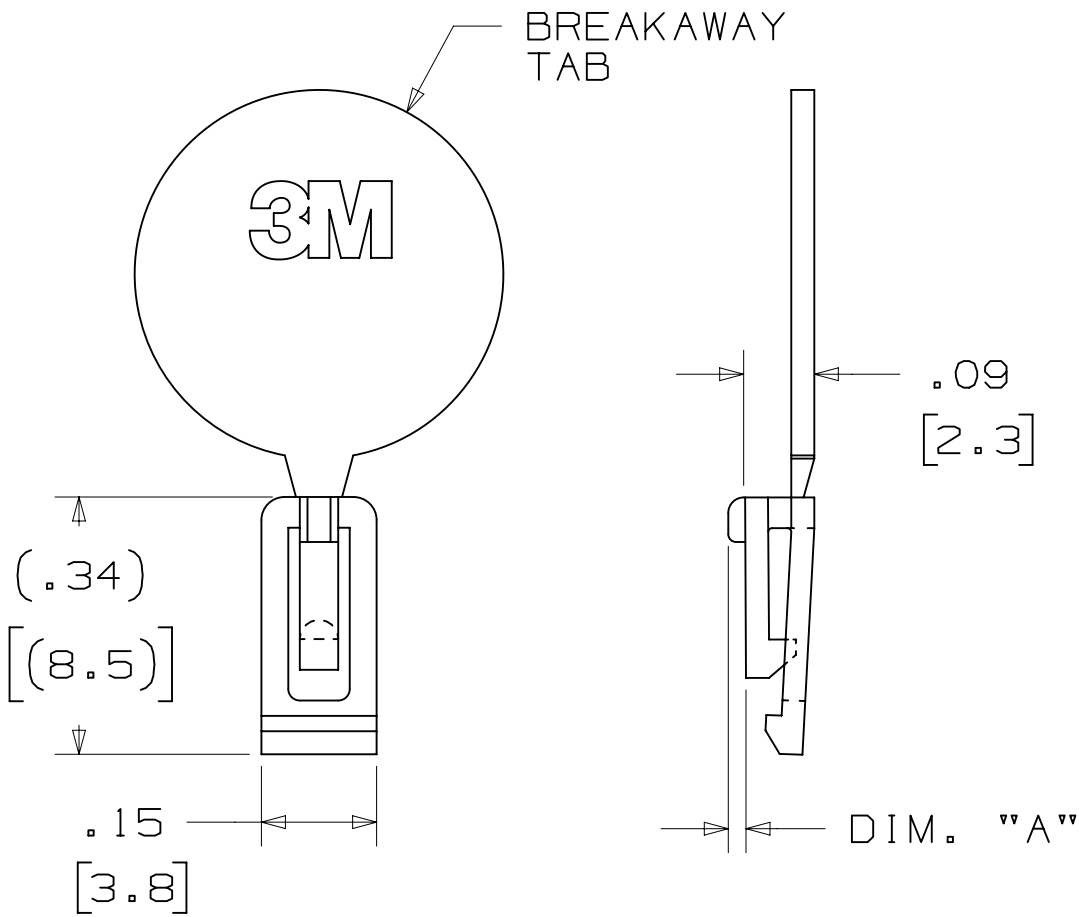
NOTE:
INSERT POST INTO ONE MOUNTING HARDWARE HOLE ON BOTTOM OF HEADER. SET POST TO PROTRUDE .115 [2.92]

(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



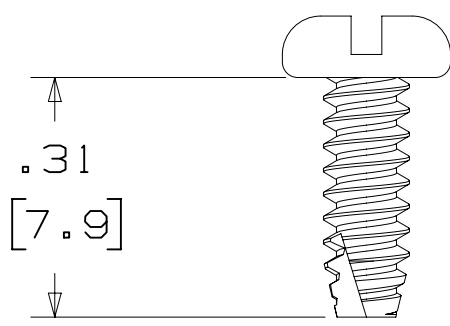
3M PART NO.	MATERIAL	COLOR	DIM. 'A'
N3518	LCP	BLACK	.02

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

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
3M CODES	3M CODES	3M CODES	3M CODES	3M CODES	3M CODES	3M CODES
DIVISION	INTERCONNECT SOLUTIONS	DIVISION CODE	EMSD	DATE	AUG 05, 2014	DATE
DO NOT SCALE DRAWING	SCALE 4 1	TOLERANCES EXCEPT AS NOTED	INCHES	0 ± .01	0.000 ± .0005	0.0000 ± .0000
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS	0 ± .3	0.00 ± .13	0.000 ± .000	0.000 ± .000
MAX SURFACE ROUGHNESS	0.8	0.8	0.8	0.8	0.8	0.8
MARKED ONLY	MARKED ONLY	MARKED ONLY	MARKED ONLY	MARKED ONLY	MARKED ONLY	MARKED ONLY
3M	3M	3M	3M	3M	3M	3M
TITLE	HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA	CAGE NUMBER	D78-5100-0771-5	SIZE	H	REV.
MODEL	3000 SERIES	DET	LISTS	YES	NO	SHT 3 OF 4

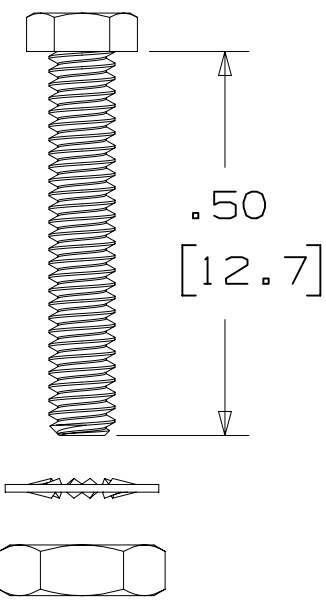
3M™ THREE-WALL HEADER, 3000 SERIES
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

MOUNTING HARDWARE



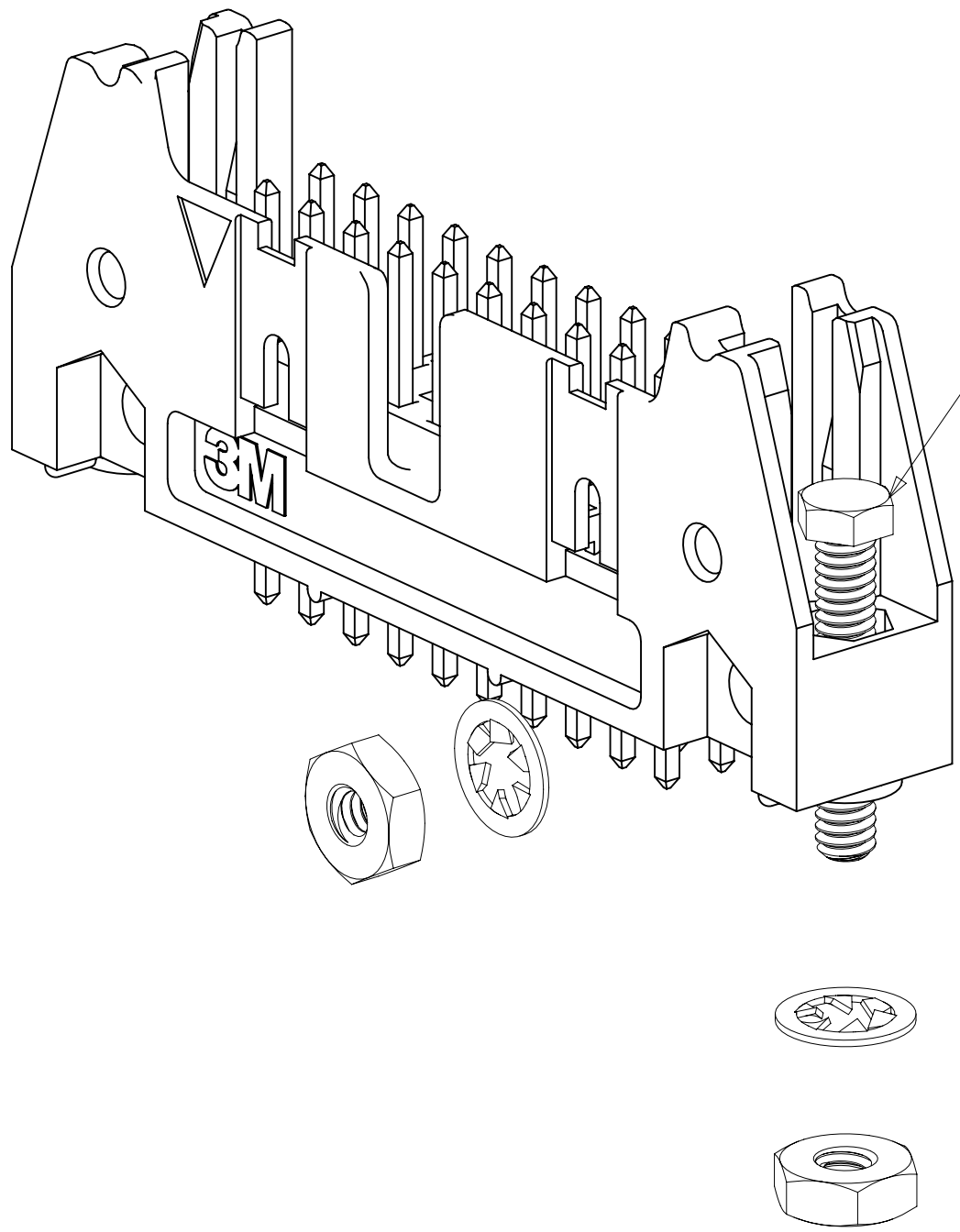
3341-5

(INSTALL FROM BOTTOM OF BOARD)
PANHEAD THREAD CUTTING SCREW:
#4-24 X 5/16"
TYPE: USA STD BT, FEDERAL B6
MATERIAL: STAINLESS STEEL



3341-6

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

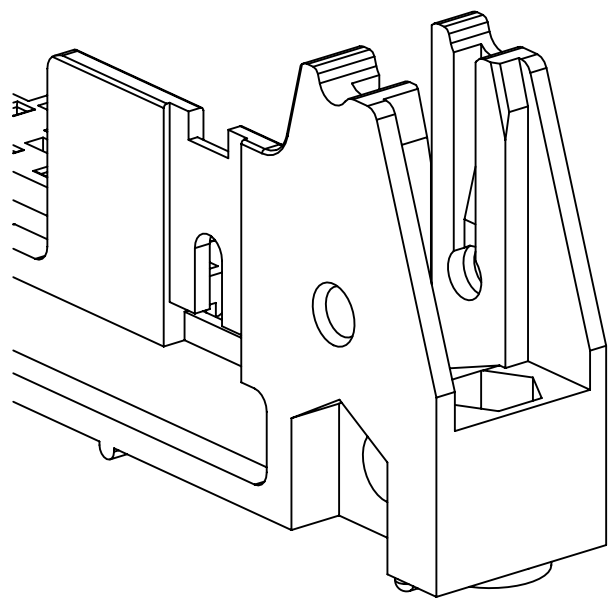


STRAIGHT VERSION INSTALL
(MUST BE INSERTED PRIOR TO
LATCH INSTALL)

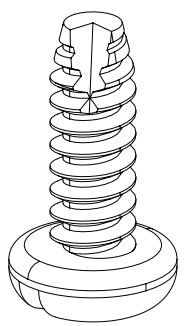
RIGHT ANGLE VERSION INSTALL

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

H		60056		MAR 06,2015		JNC		RS	
G		56068		AUG 05,2014		JNC		RS	
REV		ECO		ISSUE DATE AND DESCRIPTION				DRFT CHKD	
DRFT		CASTIGLIONE		DATE		MFG		DATE	
CHKD				AUG 05,2014		APPR		DATE	
				R. SCHERER				SEP 05,2014	
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2015					
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DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		TITLE			
		INCHES		.0000 ± .01		HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA			
THIRD ANGLE PROJECTION		MILLIMETERS		.0000 ± .005					
INTERPRET PER ASME Y14.5 - 2009		.0000 ± .0005		.0000 ± .0005					
MAX SURFACE ROUGHNESS		.0000 ± .0005		.0000 ± .0005					
□ MARKED ONLY		.0000 ± .0005		.0000 ± .0005					
		.0000 ± .0005		.0000 ± .0005					
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