

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



X3XXX-XXXXXX

UL[®]
US
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.
- * TECHNIQUE 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

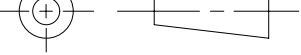
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CURRENT RATING: 5.00A, 1 CONTACT POWERED
3.00A, 6 CONTACTS POWERED
1.75A, ALL CONTACTS POWERED
RATING CONDITIONS: EIA-364-070 METHOD 2, 30°C MAXIMUM
TEMPERATURE RISE, 20% DERATED. REFERENCE APPROPRIATE
3M PRODUCT SPECIFICATION FOR DETAILED CURRENT 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 CONTAINED IN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENCE.
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 $\varnothing .116$ [2.95] MOUNTING HOLE. FOR RIGHT ANGLE VERSION ONLY: #2-56 BOLT AND NUT (3M PART #3341-6) WITH $\varnothing .106$ [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 $\varnothing .035 \pm .002$. (SEE K2 VERSION).

DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION				DRFT		CHKD	
ACCTG CODES				DRFT		CASTIGLIONE		DATE		MFG		DATE			
				CHKD				DATE		ASPLV		R. SCHERER		SEP 05, 2014	
DIVISION				DIVISION CODE				© 3M COPYRIGHT 2015							
Interconnect Solutions				EMSD				3M Center St. Paul, MN 55144				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.			
DO NOT SCALE DRAWING		SCALE 2 1		TOLERANCES EXCEPT AS NOTED											
				INCHES .00 ± .01 .000 ± .005 .0000 ±											
				THIRD ANGLE PROJECTION				MILLIMETERS 0 ± .0 ± .3 .00 ± .13 .000 ±				TITLE HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA			
INTERPRET PER ASME Y14.5 - 2009								CAGE NUMBER							
MAX SURFACE ROUGHNESS MAX SURFACES ☒ MARKED ONLY				ANGLES				DRAWING NO. D78-5100-0771-5				REV. H			
				MODEL 3000 SERIES				DET. YES ☐ NO ☒				SHT 1 OF 4			

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

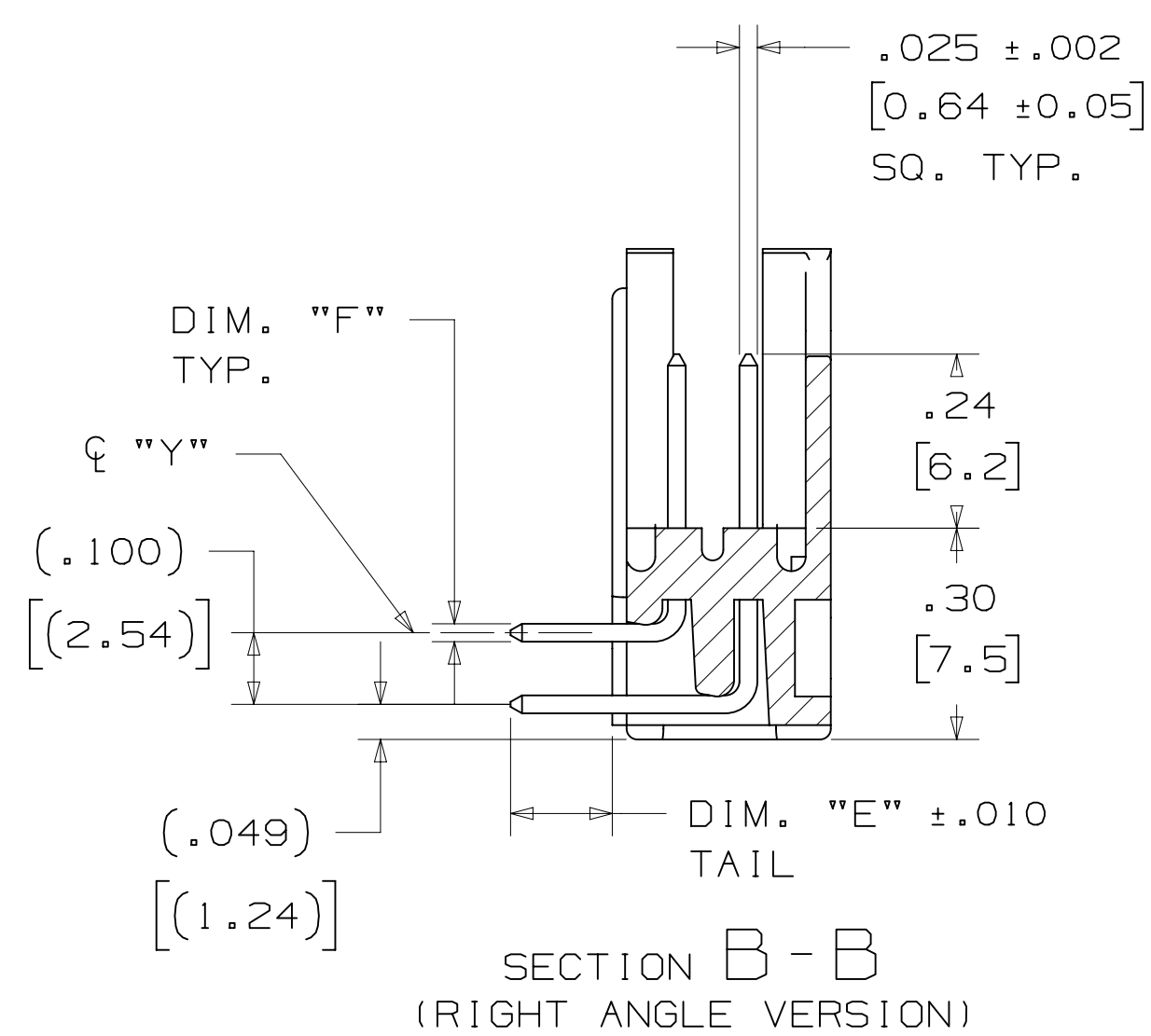
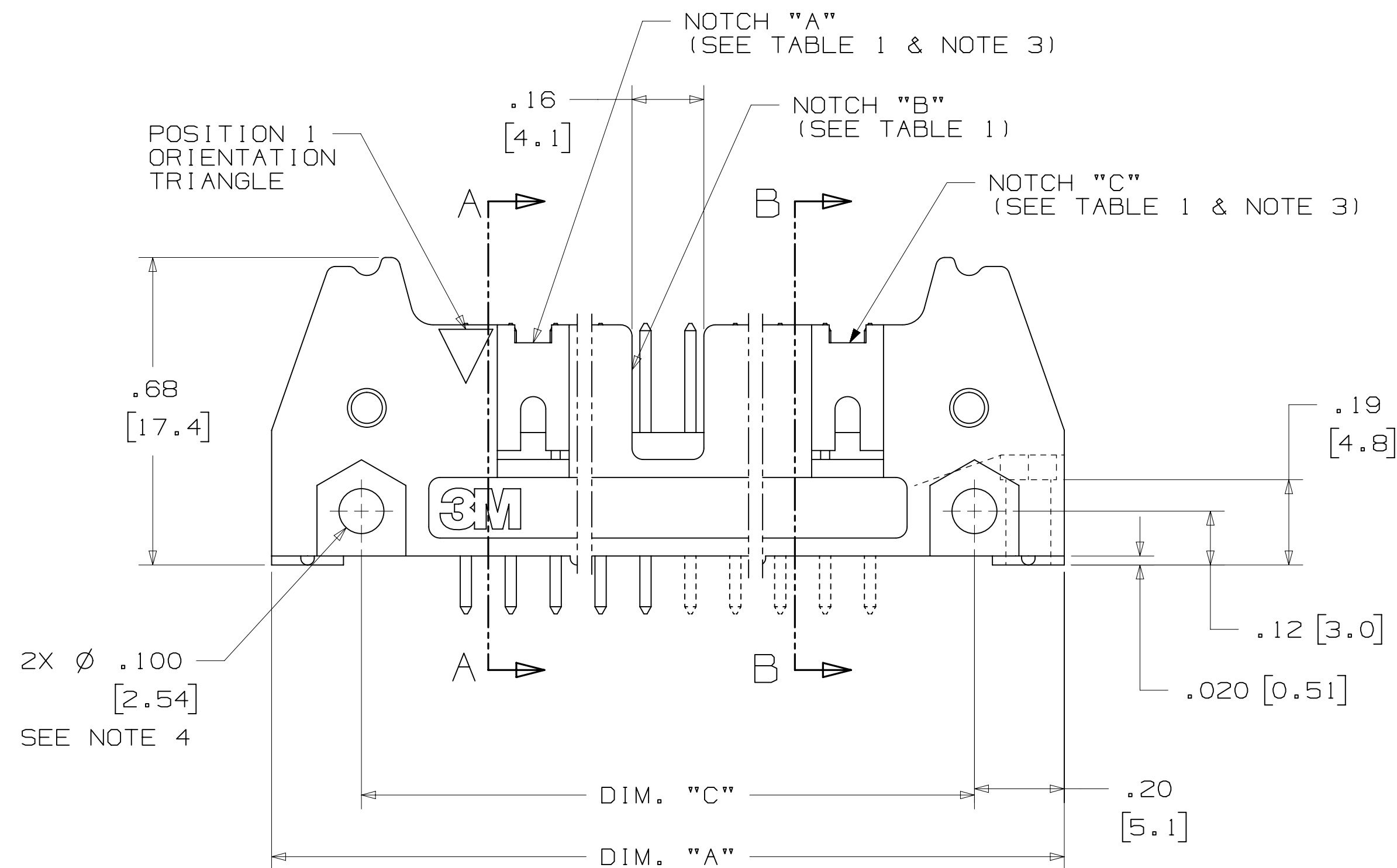
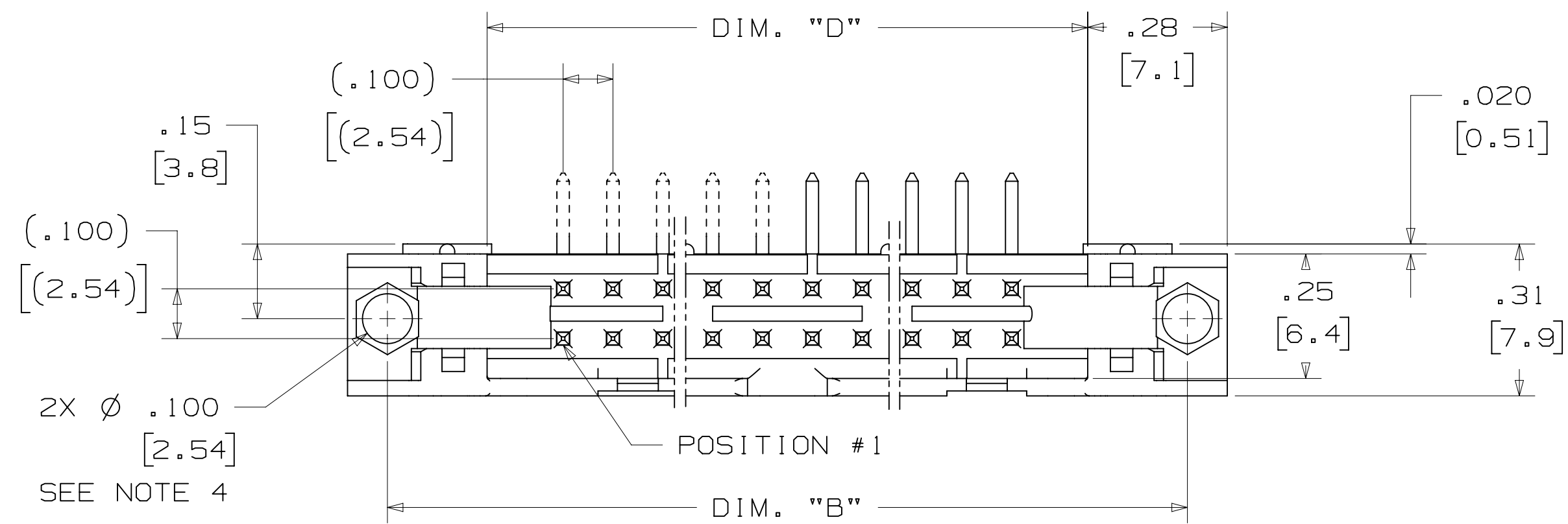


TABLE 1							
PIN QTY.	3M PART NUMBER	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	POLARIZING NOTCHES	PIN QTY.
10	3793	1.26 [32.1]	1.105 [28.04]	.865 [21.97]	.71 [18.0]	BC	10
14	3314	1.46 [37.2]	1.305 [33.12]	1.065 [27.05]	.91 [23.1]	BC	14
16	3408	1.56 [39.7]	1.405 [35.66]	1.165 [29.59]	1.01 [25.6]	ABC	16
20	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

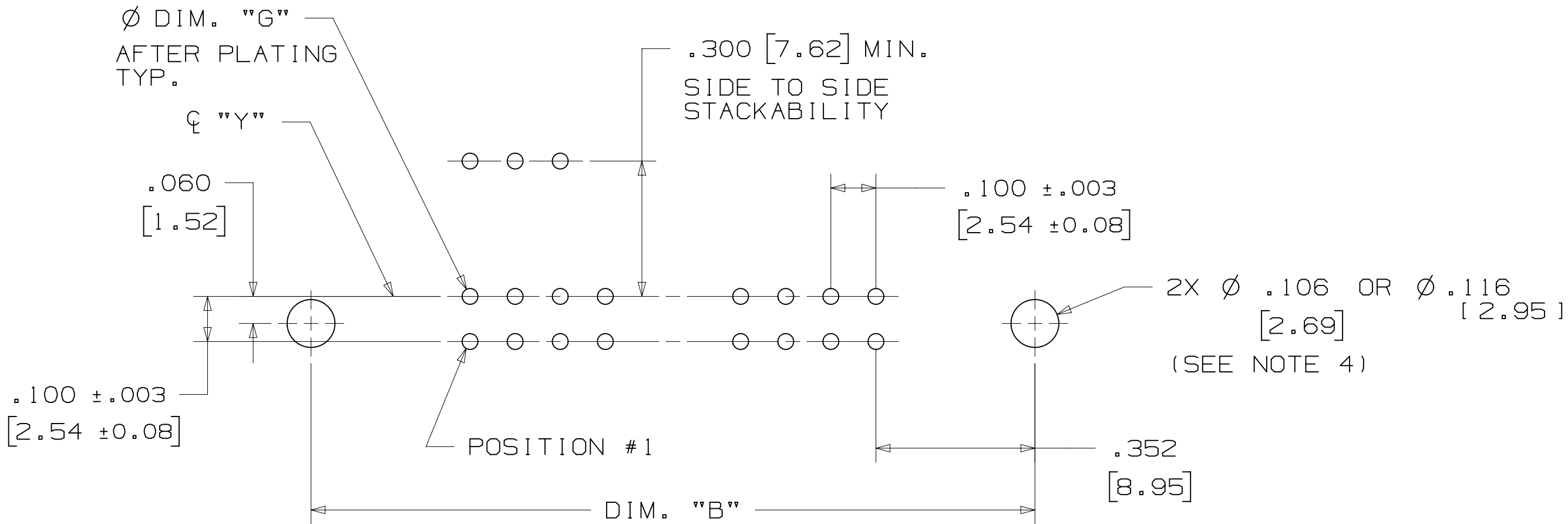
TABLE 2						
3M PART NUMBER SUFFIX	CONTACT TAIL	DIM. "E"	PIN CROSS SECTION			DIM. "G"
-1XX2	.062 [1.57] THICK PC BOARD	.112 [2.84]	DIM. "F"	DIAGONALS	CORNER RADIUS	.035+/- .003 [.89] SEE NOTE 5
-2XX2			.0245+/- .0005 [.622]	.028+/- .001 [.71]	.0075 REF. [.191]	
-1X03	.094 [2.39] TO .125 [3.18] THICK PC BOARD	.155 [3.94]	.0245+/- .0005 [.622]	.028+/- .001 [.71]	.0075 REF. [.191]	.035+/- .003 [.89]
-2X03						



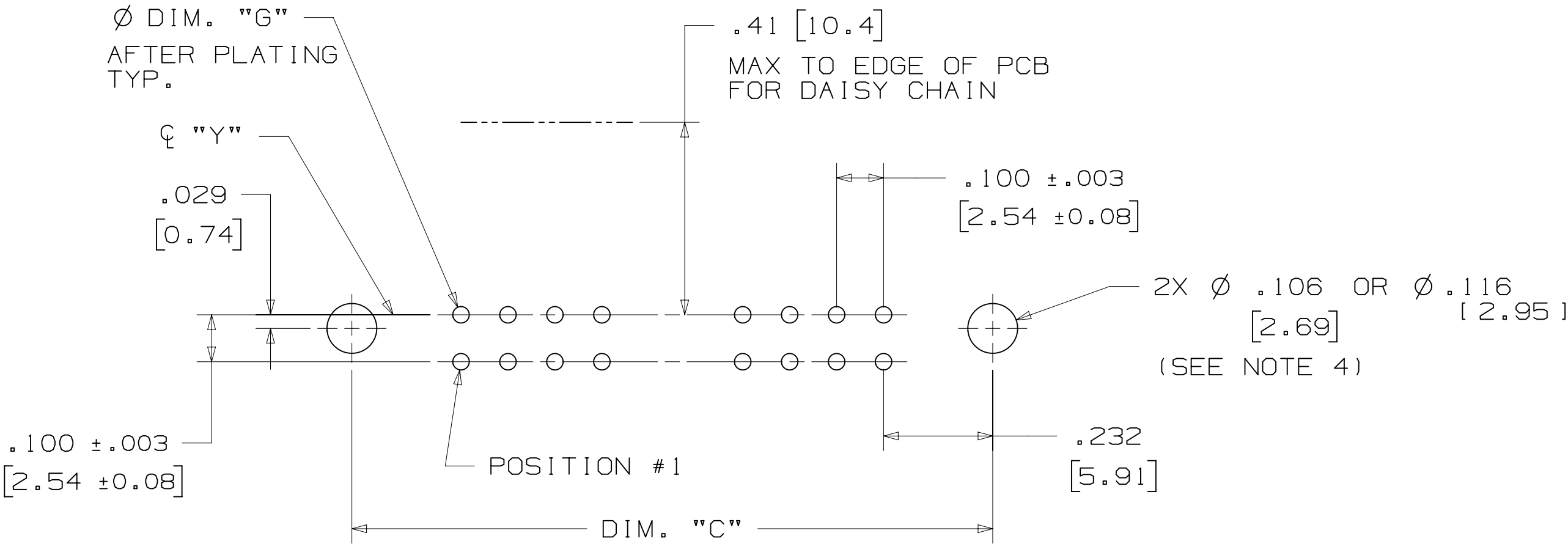
H	60056	MAR 06,2015			JNC	RS
		REVISED ORDERING				
		NUMBER				
G	56068	AUG 05,2014			JNC	RS
		REVISED AND REDRAWN				
REV	ECO	ISSUE DATE AND DESCRIPTION			DRFT	CHKD
DRFT CASTIGLIONE		DATE AUG 05,2014	MFG	DATE		
CHKD		DATE	APPROVAL R. SCHERER		DATE SEP 05,2014	
 3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2015 This document and the information it contains are 3M property and may not be reproduced or further distributed without the written 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.				
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. LISTS	☐ YES ☒ NO	
				SHT 2 OF 4		

DESIGN REFERENCE		NEXT ASSEMBLY	
ACROSS CODES			
DIVISION		DIVISION CODE	
Interconnect Solutions		EMSD	
DO NOT SCALE DRAWING	SCALE 4 1	TOLERANCES EXCEPT AS NOTED	
 THIRD ANGLE PROJECTION		INCHES	
		.00 ± .00 ± .01 .000 ± .005 .0000 ±	
INTERPRET PER ASME Y14.5 - 2009		MILLIMETER	
MAX. SURFACE ROUGHNESS ✓ ☐ DIM. SURFACES ☐ MARKED ONLY		.00 ± .00 ± .13 .000 ±	
		ANGLES ±	

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

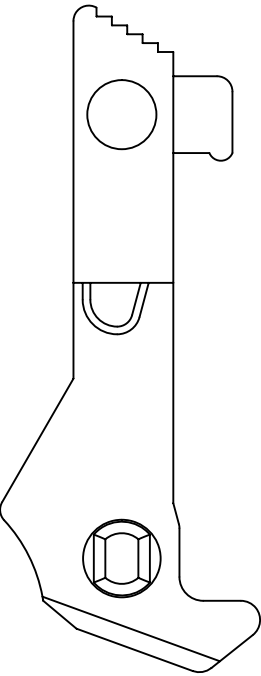
THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

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.

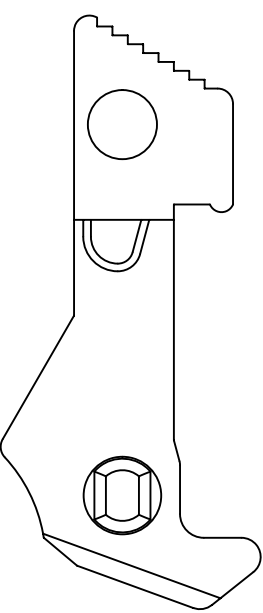
BOTH SNAP-IN AND ROLL PIN LATCHES MAY BE ORDERED SEPARATELY. SNAP-IN AND ROLL PIN STYLE LATCHES ARE DIMENSIONALLY AND FUNCTIONALLY EQUIVALENT. IF ORDERING SNAP-IN OR ROLL PIN STYLE LATCHES SEPARATELY, PLEASE USE THE BELOW CHART.

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

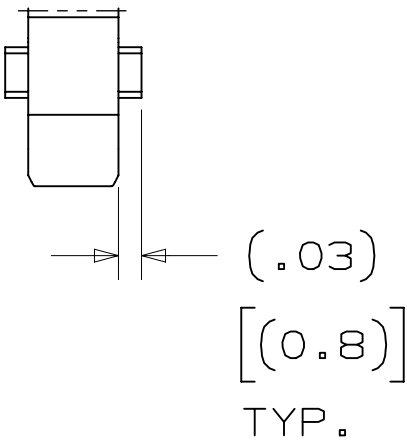


LONG



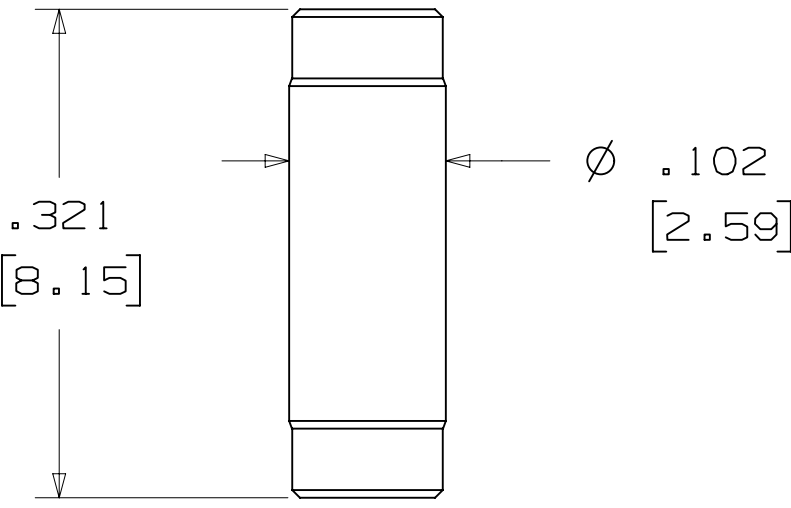
SHORT

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

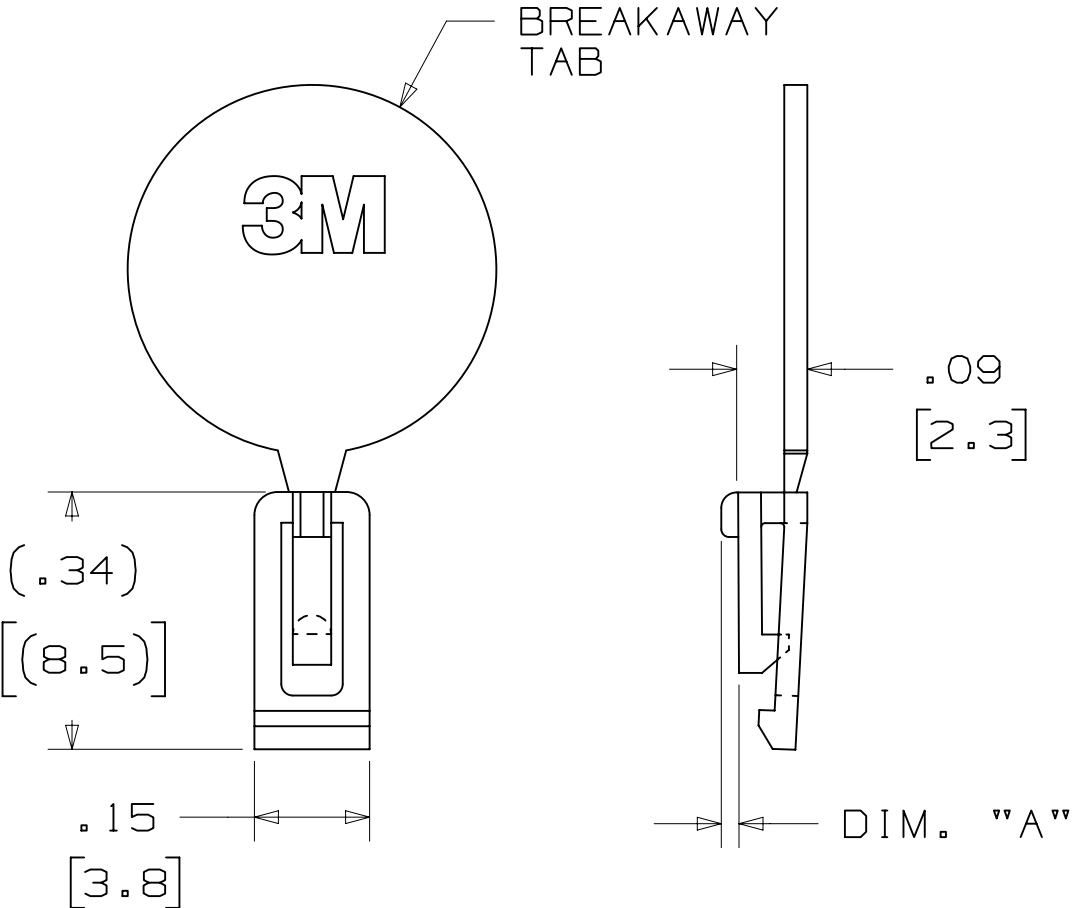
NOTE:
INSERT POST INTO ONE MOUNTING HARDWARE HOLE ON BOTTOM OF HEADER. SET POST TO PROTRUDE .115 [2.92]

(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



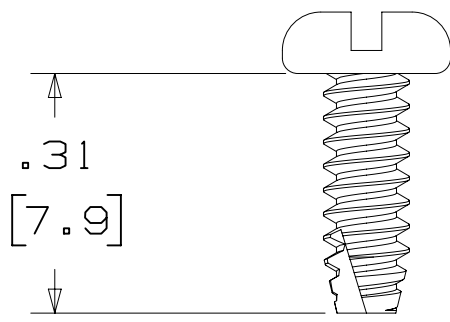
3M PART NO.	MATERIAL	COLOR	DIM. 'A'
N3518	LCP	BLACK	.02

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

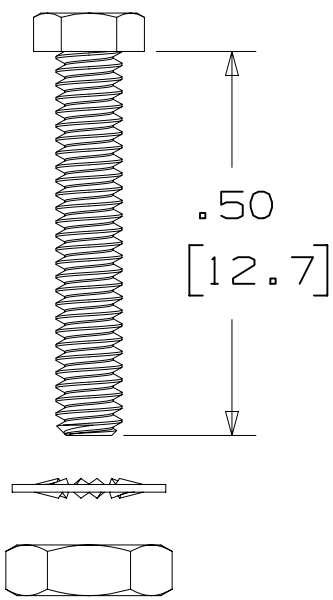
DESIGN REFERENCE		NEXT ASSEMBLY		H	60056	MAR 06,2015 REVISE ORDERING NUMBER		JNC	RS
G		56068		AUG 05,2014 REVISED AND REDRAWN		JNC		RS	
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
DIP		CASTIGLIONE		AUG 05,2014		MFG		DATE	
CHKD		R. SCHERER		DATE		SEP 05,2014		REV.	
DIVISION		Interconnect Solutions		DIVISION CODE		EMSD		3M	
DO NOT SCALE DRAWING		SCALE 4/1		TOLERANCES EXCEPT AS NOTED		INCHES .00 ±.01 .000 ±.0005 .0000 ±		MILLIMETERS 0 ±.3 .00 ±.13 .000 ±	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS		SURFACES		MARKED ONLY	
TITLE		HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA		CAGE NUMBER		D78-5100-0771-5		REV.	
MODEL		3000 SERIES		DET		YES		SHT 3 OF 4	

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

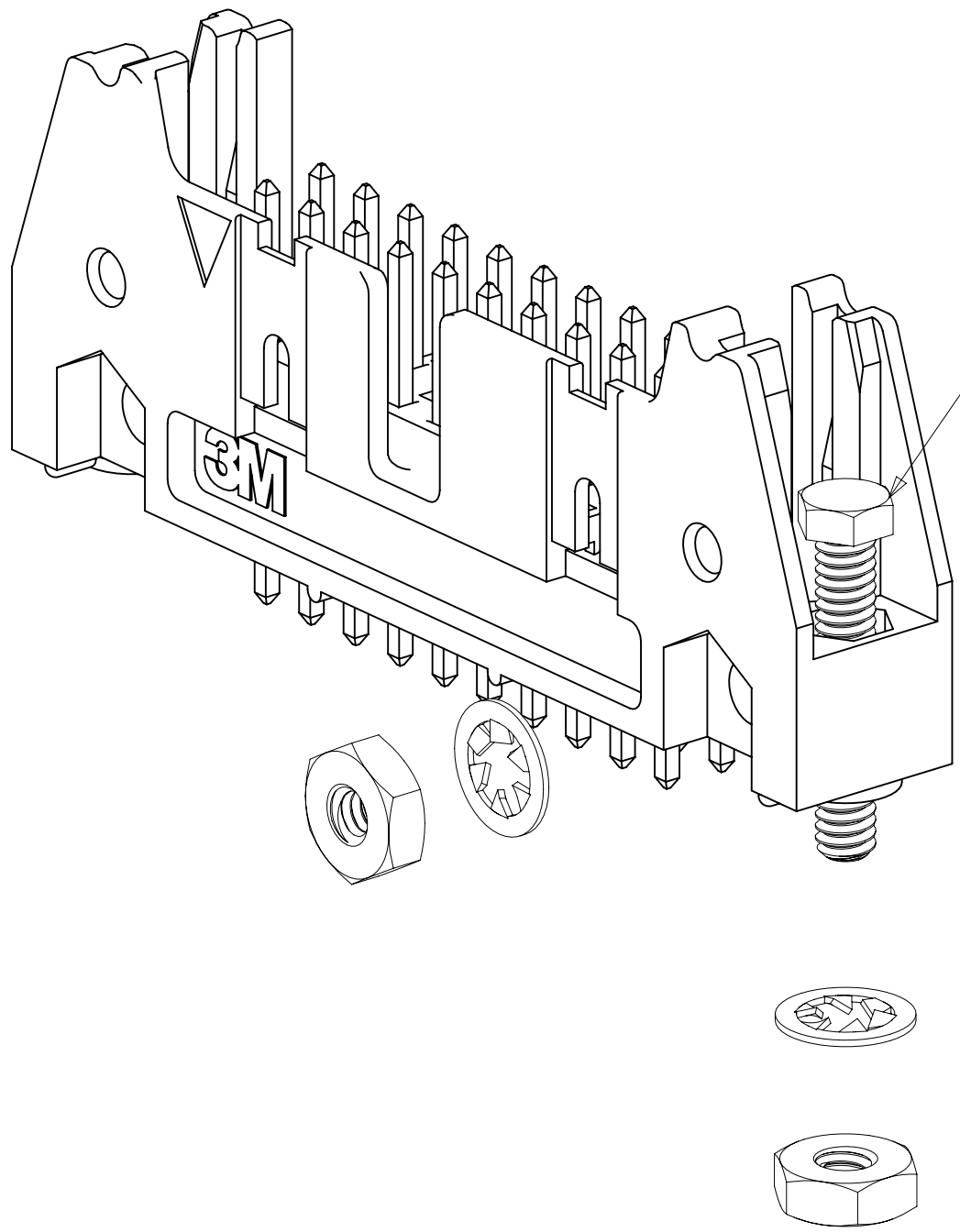
MOUNTING HARDWARE



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



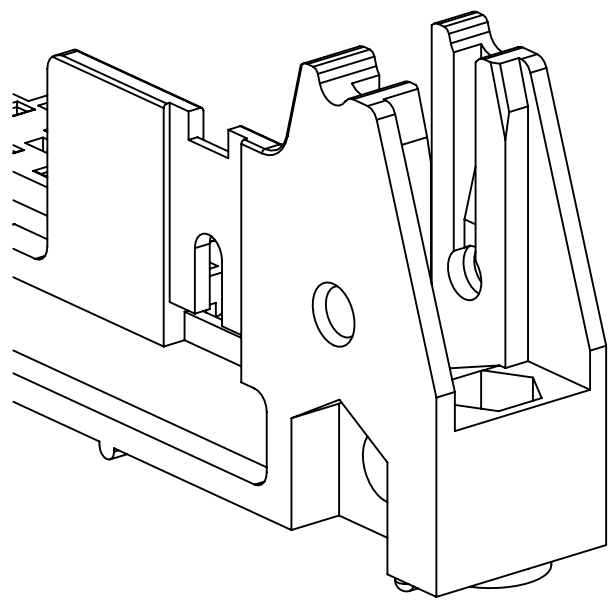
3341-6
HEX HEAD BOLT, NUT AND WASHER:
BOLT - #2-56 X 1/2"
MATERIAL: STAINLESS STEEL



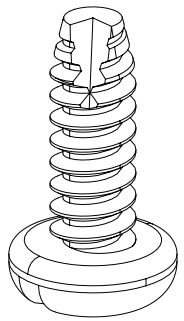
STRAIGHT VERSION INSTALL
(MUST BE INSERTED PRIOR TO
LATCH INSTALL)

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		AUG 05, 2014		R. SCHERER		SEP 05, 2014	
DIVISION		DIVISION CODE		H		60056		MAR 06, 2015	
Interconnect Solutions		EMSD		G		56068		AUG 05, 2014	
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		CAGE NUMBER		DRAWING NO.	
MARKED ONLY		ANGLES		3M		D78-5100-0771-5		H	
MODEL		3000 SERIES		DET		YES		NO	
SHT		4		OF		4		REV.	