

.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.
- * 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
 $\varnothing .116 [2.95]$ 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
ACROSS				DRFT	CASTIGLIONE	DATE	MFO	DATE	
				CHKD		DATE	APPR. R. SCHERER	DATE	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		3M TITLE HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA			
		INCHES							
		.00 2 .00 2 .01 .000 2 .005 .0000 2							
THIRD ANGLE PROJECTION		MILLIMETERS		.0 2 .0 2 .3 .00 2 .13 .000 2		CAGE NUMBER		SIZE	DRAWING NO.
~~MAX. SURFACE ROUGHNESS~~ ✓ ☐ MARKED ONLY		ANGLE		MODEL		D 78-5100-0771-5		REV.	H
				3000 SERIES		DET. SHTS ☒ YES ☒ NO		SHT 1 OF 4	

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

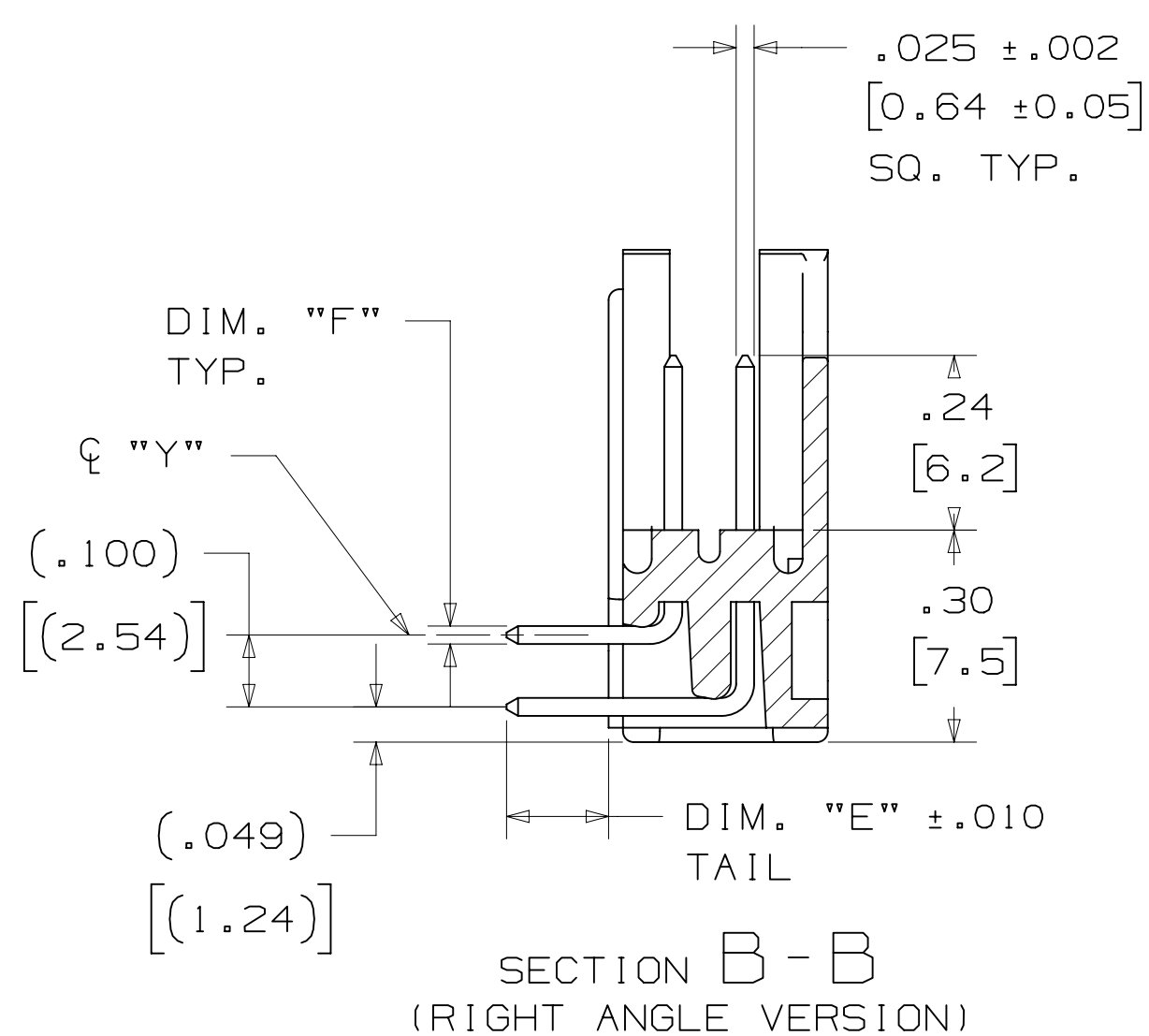
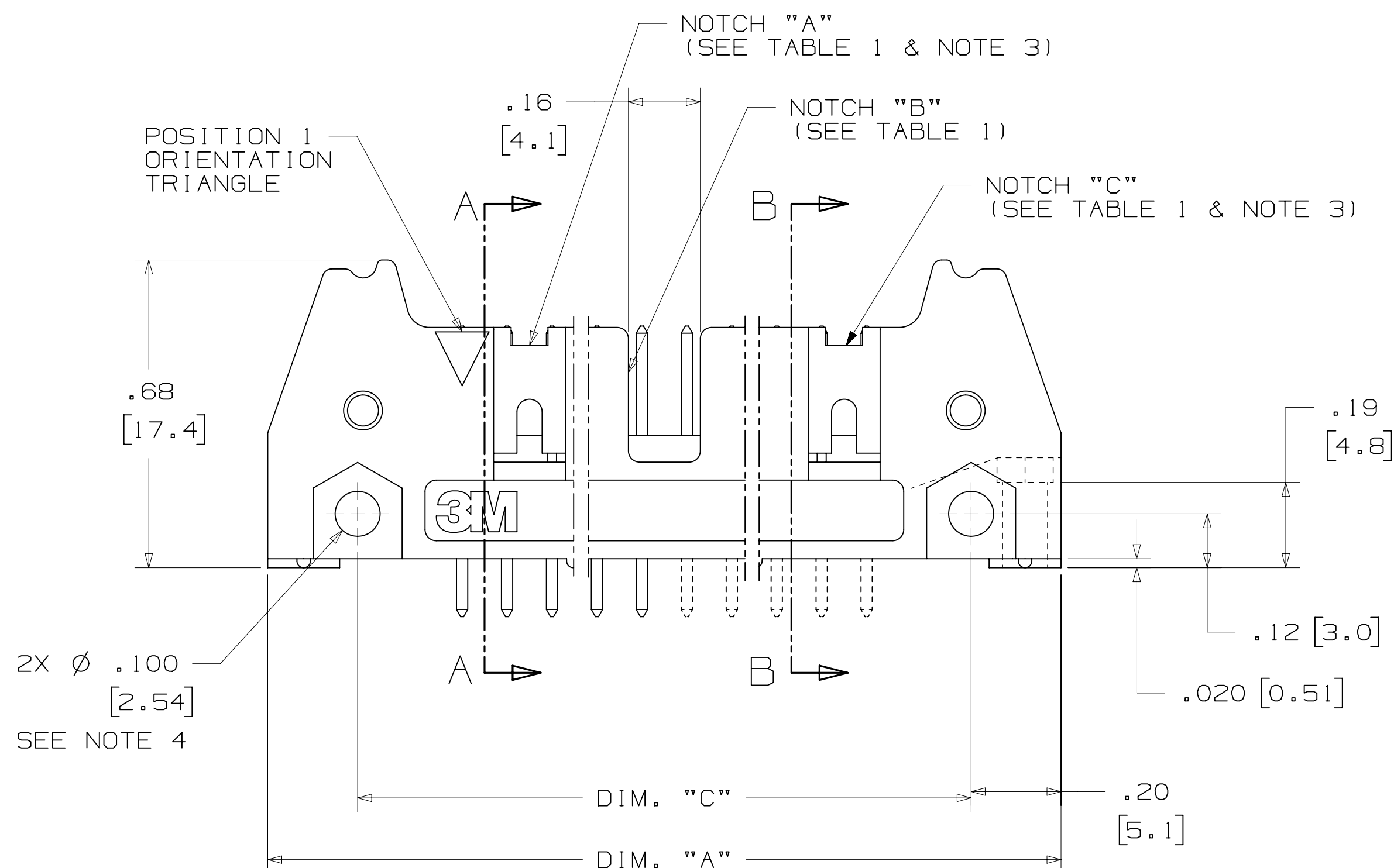
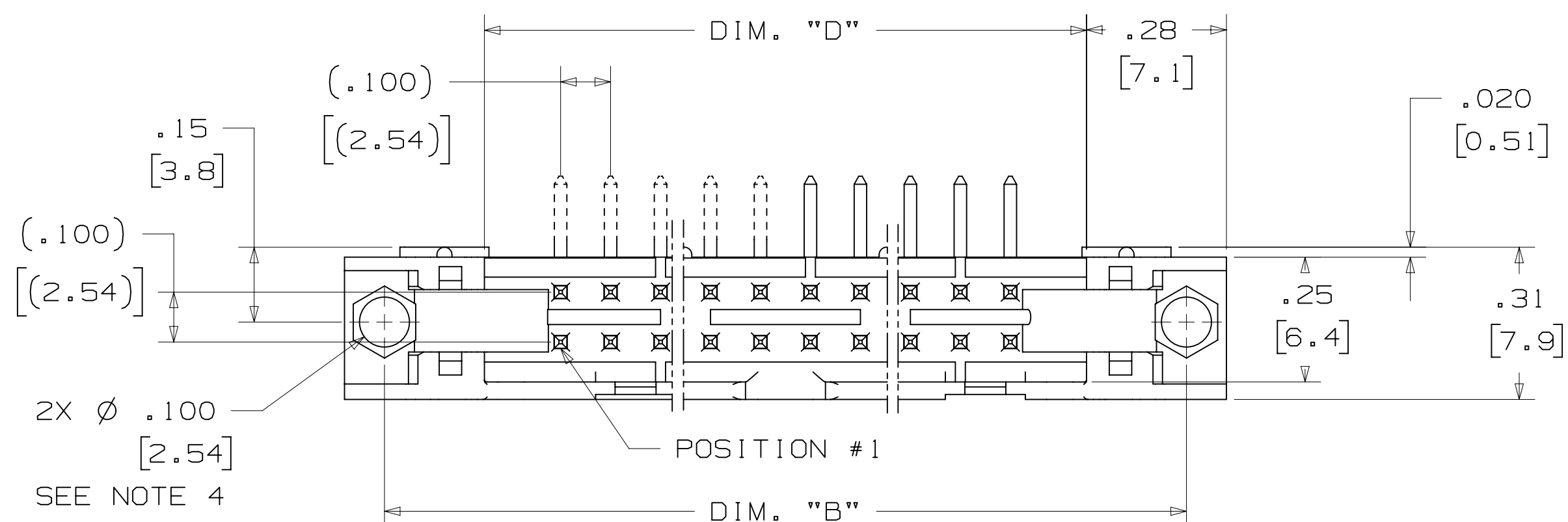


TABLE 1							
PIN QTY.	3M PART NUMBER	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	POLARIZING NOTCHES	PIN QTY.
10	3793	1.26 [32.1]	1.105 [28.04]	.865 [21.97]	.71 [18.0]	BC	10
14	3314	1.46 [37.2]	1.305 [33.12]	1.065 [27.05]	.91 [23.1]	BC	14
16	3408	1.56 [39.7]	1.405 [35.66]	1.165 [29.59]	1.01 [25.6]	ABC	16
20	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 BY SCHEERER	DATE SEP 05,2014		
 3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2015 This document and the information it contains are 3M property and should not be reproduced or further distributed without 3M permission, or used or disclosed otherwise 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. STS	EYES ☒ NO	SHT 2 OF 4	

DESIGN REFERENCE		NEXT ASSEMBLY	
ADDENDS			
DIVISION		DIVISION CODE	
Interconnect Solutions		EMSD	
DO NOT SCALE DRAWING		TOLERANCE EXCEPT A NOTED	
$\frac{\text{SCALE}}{1}$		INCHES	
		.0 ± .0 .000 ± .00 .0000 ± .00	
THIRD ANGLE PROJECTION		MILLIMETERS	
INTERPRET PER ASME Y14.5 - 2009		0 ± .3 .00 ± .12 .000 ± .00	
~~MAX SURFACE ROUGHNESS~~ ☒ MAX SURFACES ☐ MARKED ONLY		ANGLE	

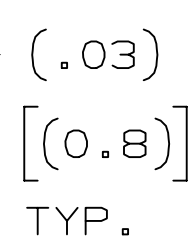
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

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.

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* SELECTIVE PIN REMOVAL (ATA OR OTHER COMPATABILITY)
* WIRE WRAP TAILS STYLE
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SHORT

SNAP-IN LATCHES

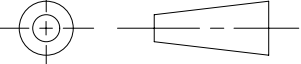
NOTE:
SNAP-IN LATCHES CAN ONLY BE ORDERED
SEPARATELY AND ARE THE CUSTOMERS
RESPONSIBILITY TO INSTALL.



KINKED TAIL DETAIL:

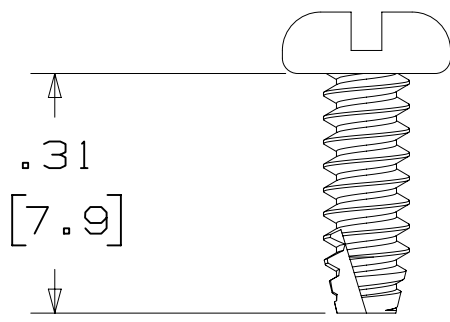
- KINK IS LOCATED .05" BELOW BOTTOM SURFACE OF PLASTIC.
- EXTERNAL RADIUS OF KINK TOWARD PART CENTERLINE.



DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD			
ACROSS				BPR		CASTIGLIONE		DATE		MFG		DATE			
								AUG 05, 2014							
				CHKD				DATE		APPRV		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 HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA							
		INCHES		MILLIMETERS											
		.00 ± .01 .000 ± .005 .0000 ±		.0 ± .3 .00 ± .13 .000 ±											
THIRD ANGLE PROJECTION								CAGE NUMBER		SIZE		DRAWING NO.			
INTERPRET PER ASME Y14.5 - 2009								D		78-5100-0771-5		REV. H			
~~MAX SURFACE ROUGHNESS~~  ☒ MARKED ONLY				~~ANGLS~~				MODEL		3000 SERIES		DET. LISTS ☒ YES ☒ NO SHT 3 OF 4			

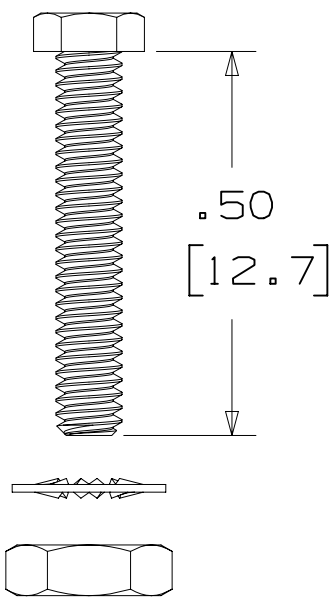
3M™ THREE-WALL HEADER, 3000 SERIES
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

MOUNTING HARDWARE



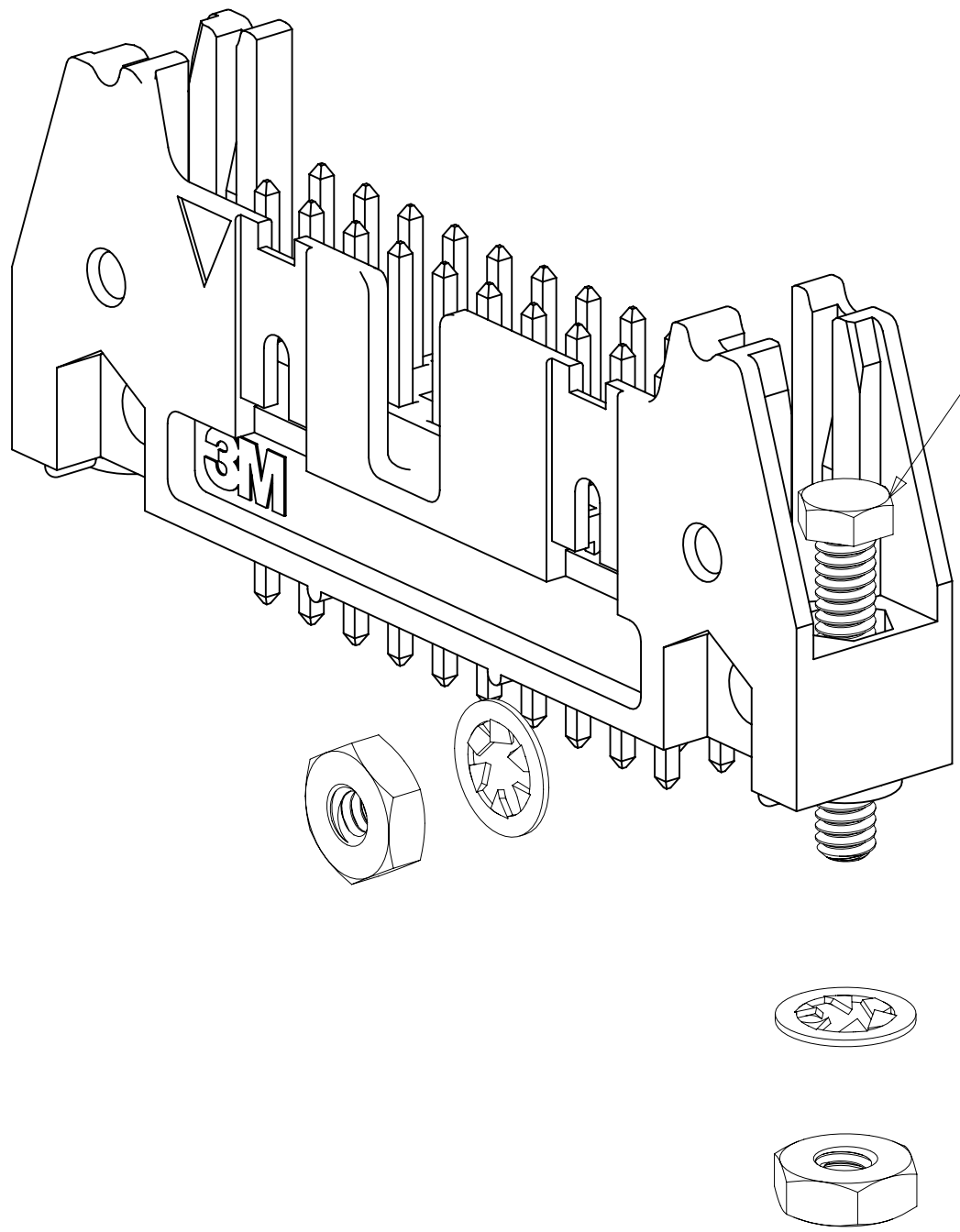
3341-5

(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

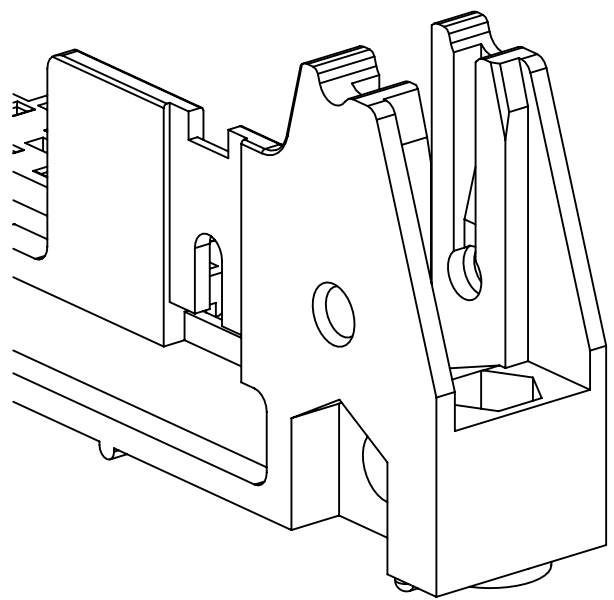


STRAIGHT VERSION INSTALL
(MUST BE INSERTED PRIOR TO
LATCH INSTALL)

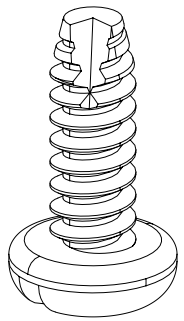
RIGHT ANGLE VERSION INSTALL

3341-6

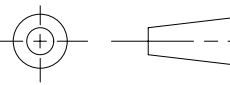
#2-56 NUT AND BOLT
TORQUE FOR EACH BOLT: 1.25 - 3.125 INCH LBS.



#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

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G		56068		AUG 05, 2014		JNC		RS			
REV		ECO		ISSUE DATE AND DESCRIPTION				DRFT		CHKD	
DRFT		CASTIGLIONE		DATE		AUG 05, 2014		MFG		DATE	
CHKD				DATE				APPR		DATE	
								R. SCHERER		SEP 05, 2014	
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				INCHES		HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA					
THIRD ANGLE PROJECTION				MILLIMETERS							
INTERPRET PER ASME Y14.5 - 2009				.00		.3					
MAX SURFACE ROUGHNESS				.00		.13					
✓ ☐ MARKED ONLY				.000		.005					
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