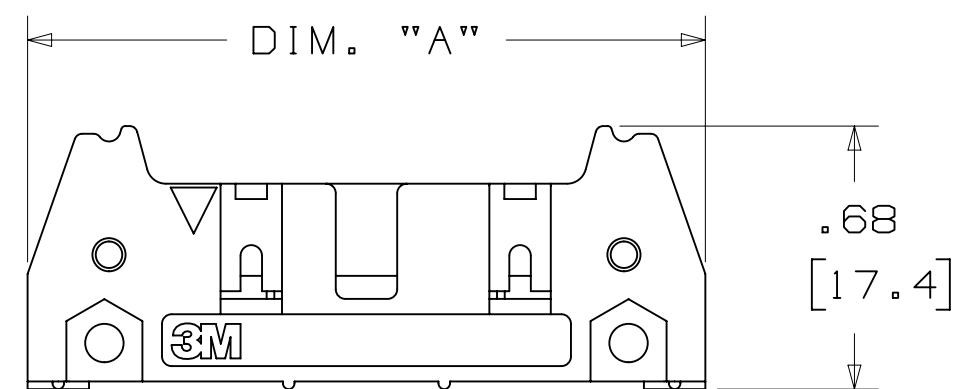
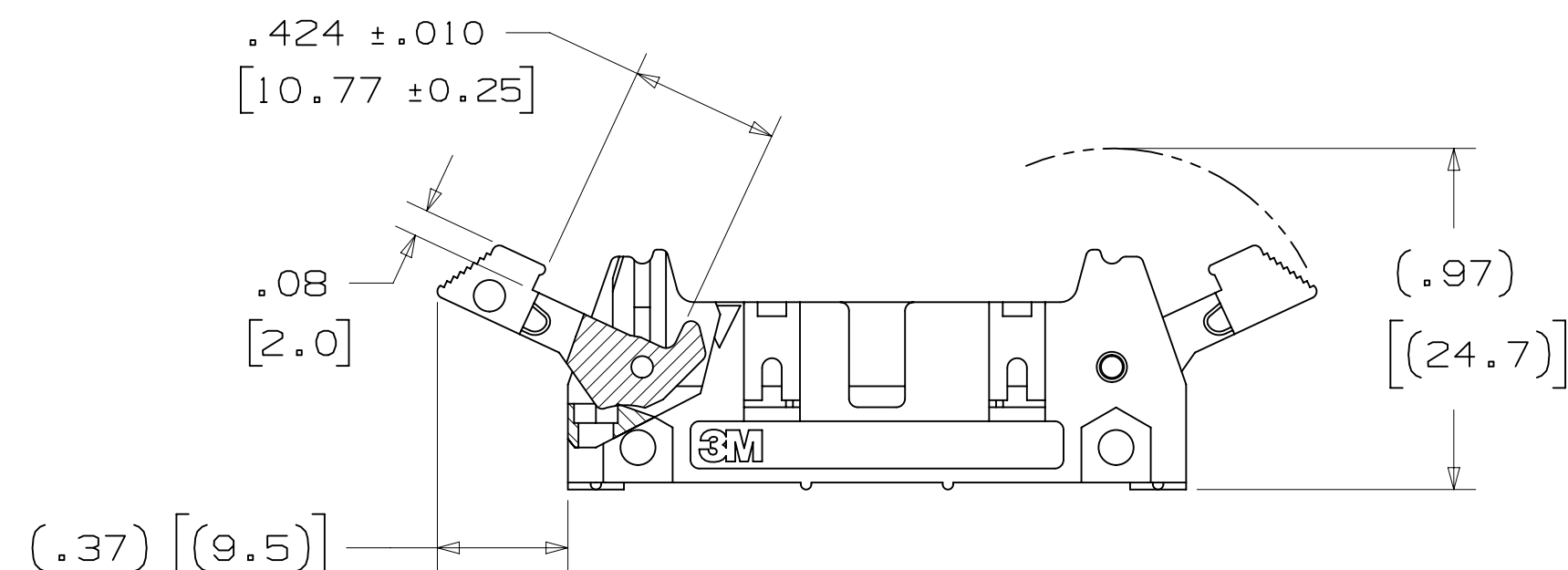


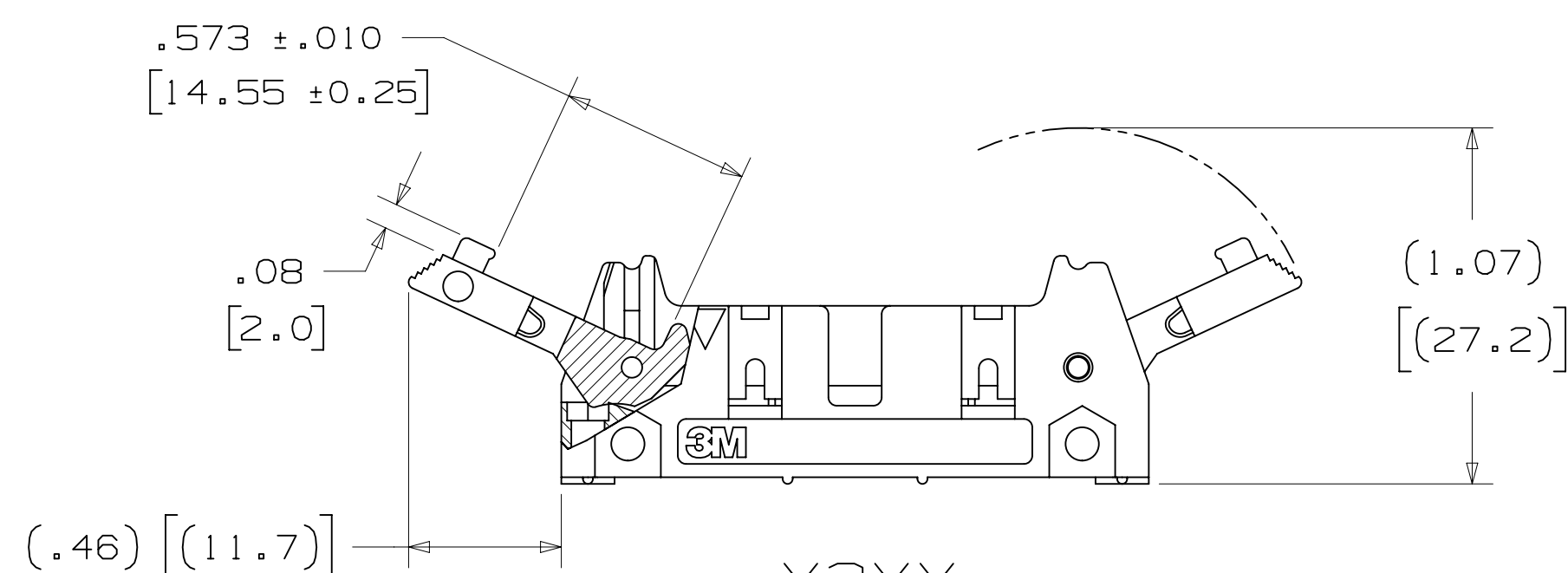
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



-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

X3XXX-XXXXXX

3M PART NUMBER:
(SEE TABLE 1)

- 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)

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

0 = NO LATCH/EJECTOR INSTALLED
2 = SHORT ROLL PIN LATCH/EJECTORS
3 = LONG ROLL PIN LATCH/EJECTORS

- * 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.

2 PHYSICAL:

```

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

2 ENVIRONMENTAL :

TEMPERATURE RATING: -55°C TO 105°C
PROCESS RATING: 260°C, PER J-STD-020C, SINGLE PASS
MOISTURE SENSITIVITY LEVEL: 1 (PER J-STD-020C)

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UL[®]
US
UL FILE NO: E68080

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ADDRESS		CODE		DRFT	DATE		MFG	DATE	
ADDRESS		CODE		CHKD	DATE		ASPL	DATE	
DIVISION		DIVISION CODE		R. SCHERER		SEP 05, 2014			
Interconnect Solutions		EMSD		3M		© 3M COPYRIGHT 2015			
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		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.			
SCALE $\frac{2}{1}$		INCHES		TITLE		HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA			
		THIRD ANGLE PROJECTION		CAGE NUMBER		DRAWING NO.			
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		SIZE		D78-5100-0772-3			
MAX. SURFACE ROUGHNESS		.00 ± .13		MODEL		3000 SERIES			
MAX. SURFACES		.00 ± .3		DET.		YES YES NO SHT 1 OF			
✓ ☐ MARKED ONLY		.000 ±		LISTS		YES YES NO SHT 1 OF			
MAX. SURFACE ROUGHNESS		ANGLES							

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 $\varnothing .035 \pm .002$.
(SEE K2 VERSION).

A

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

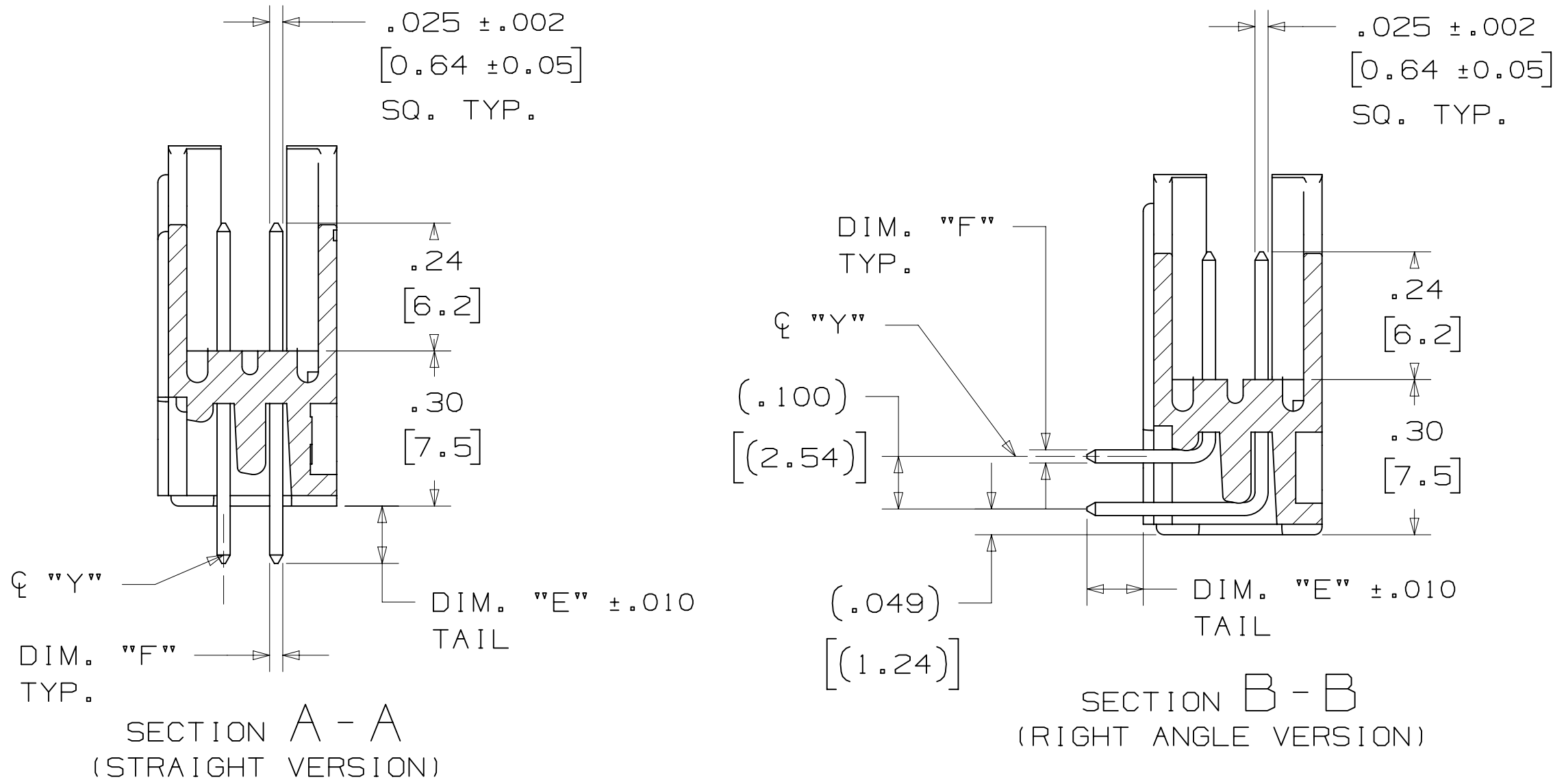
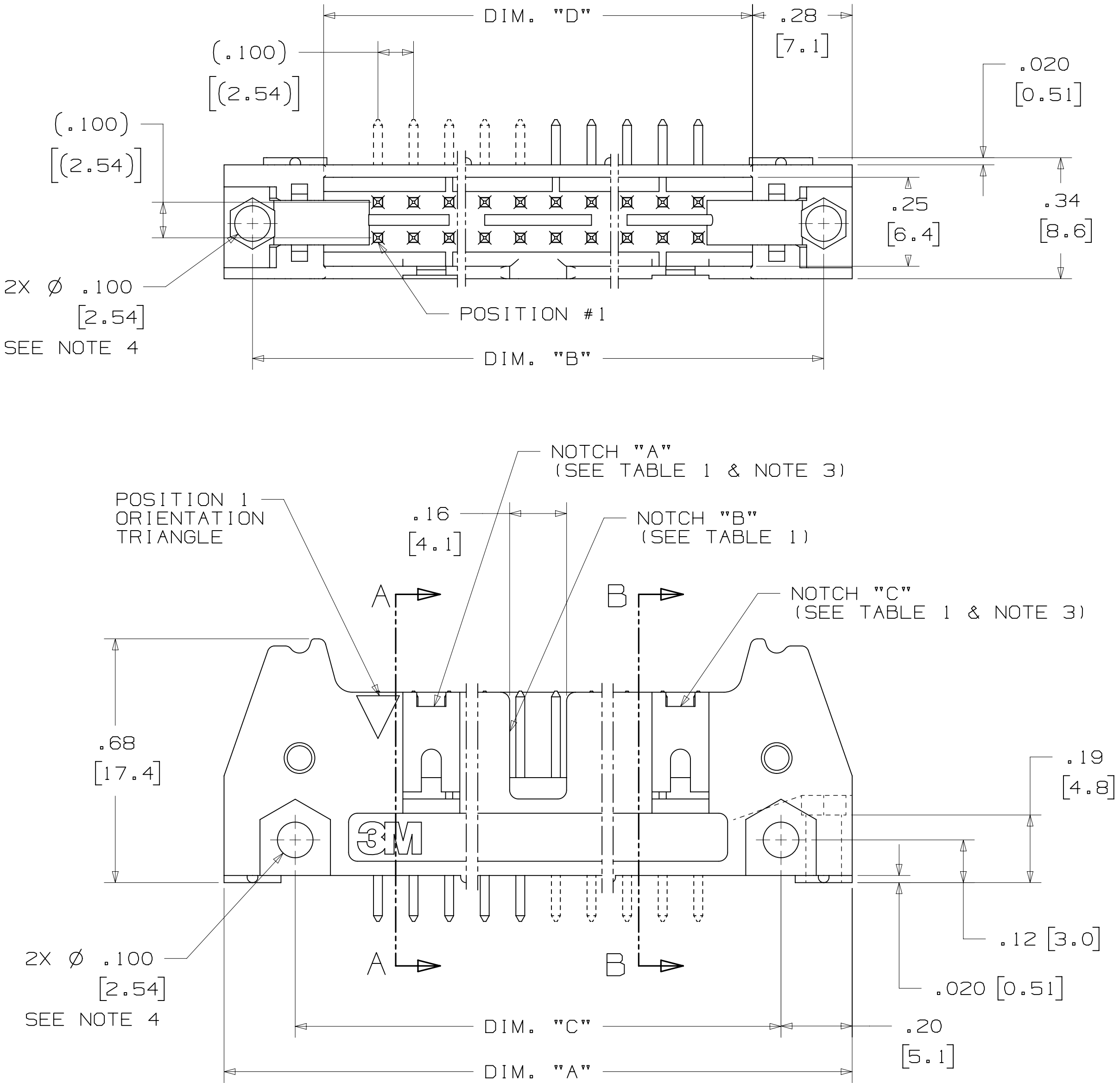


TABLE 1							
PIN QTY.	3M PART NUMBER	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	POLARIZING NOTCHES	PIN QTY.
06	3869	1.06 [27.0]	.905 [22.99]	.665 [16.89]	.51 [12.9]	B*	06
08	3889	1.16 [29.5]	1.005 [25.53]	.765 [19.43]	.61 [15.5]	B*	08
10	3793	1.26 [32.1]	1.105 [28.04]	.865 [21.97]	.71 [18.0]	BC	10
14	3314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

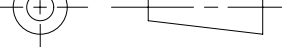


DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
3M CODES		DRP	CASTIGLIONE	DATE	MFG	DATE
		CHKD		JUL 25, 2014	R. SCHERER	SEP 05, 2014
DIVISION	Interconnect Solutions	DIVISION CODE	EMSD	© 3M COPYRIGHT 2015		
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144		
THIRD ANGLE PROJECTION		INCHES		TITLE		
		.00 ± .01		HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA		
		.000 ± .005		CAGE NUMBER		
		.0000 ±		D 78-5100-0772-3		
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		MODEL		
		0 ± .3		3000 SERIES		
MAX SURFACE ROUGHNESS		.00 ± .13		DET		
UNFINISHED SURFACES		.000 ±		LISTS		
MARKED ONLY		ANGLES		YES X NO		
				SHT 2 OF 4		

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

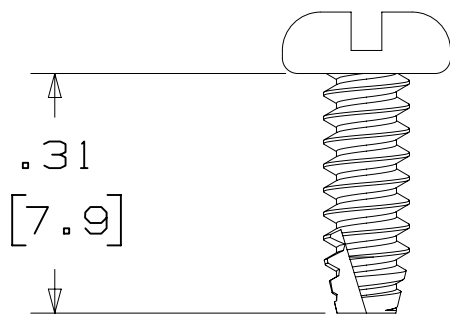


 (.03)
 [(0.8)]
 TYP.

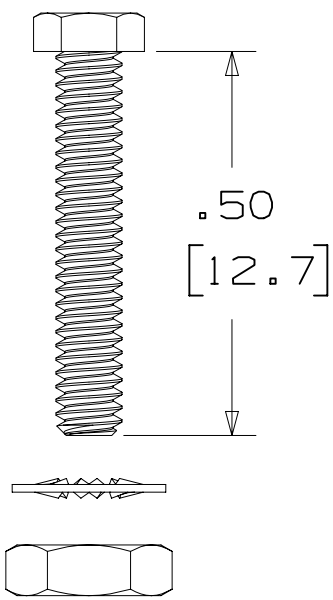
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ACCORDS				BPN CASTIGLIONE		DATE JUL 25, 2014		MFG	DATE
				CHKD		DATE		APPRV. R. SCHERER	DATE SEP 05, 2014
DIVISION		DIVISION CODE				© 3M COPYRIGHT 2015			
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SCALE 4 1									
		INCHES		TITLE		HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA			
THIRD ANGLE PROJECTION		.00 ± .01 .000 ± .005 .0000 ±		MILLIMETERS 0 ± .0 ± .3 .00 ± .13 .000 ±					
INTERPRET PER ASME Y14.5 - 2009									
MAX SURFACE ROUGHNESS 		ALL SURFACES ☒ MARKED ONLY		CAGE NUMBER		SIZE		DRAWING NO.	REV.
				D		78-5100-0772-3		S	
				MODEL		3000 SERIES		DET. LISTS	YES ☐ NO ☒
								SHT	3 OF 4

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

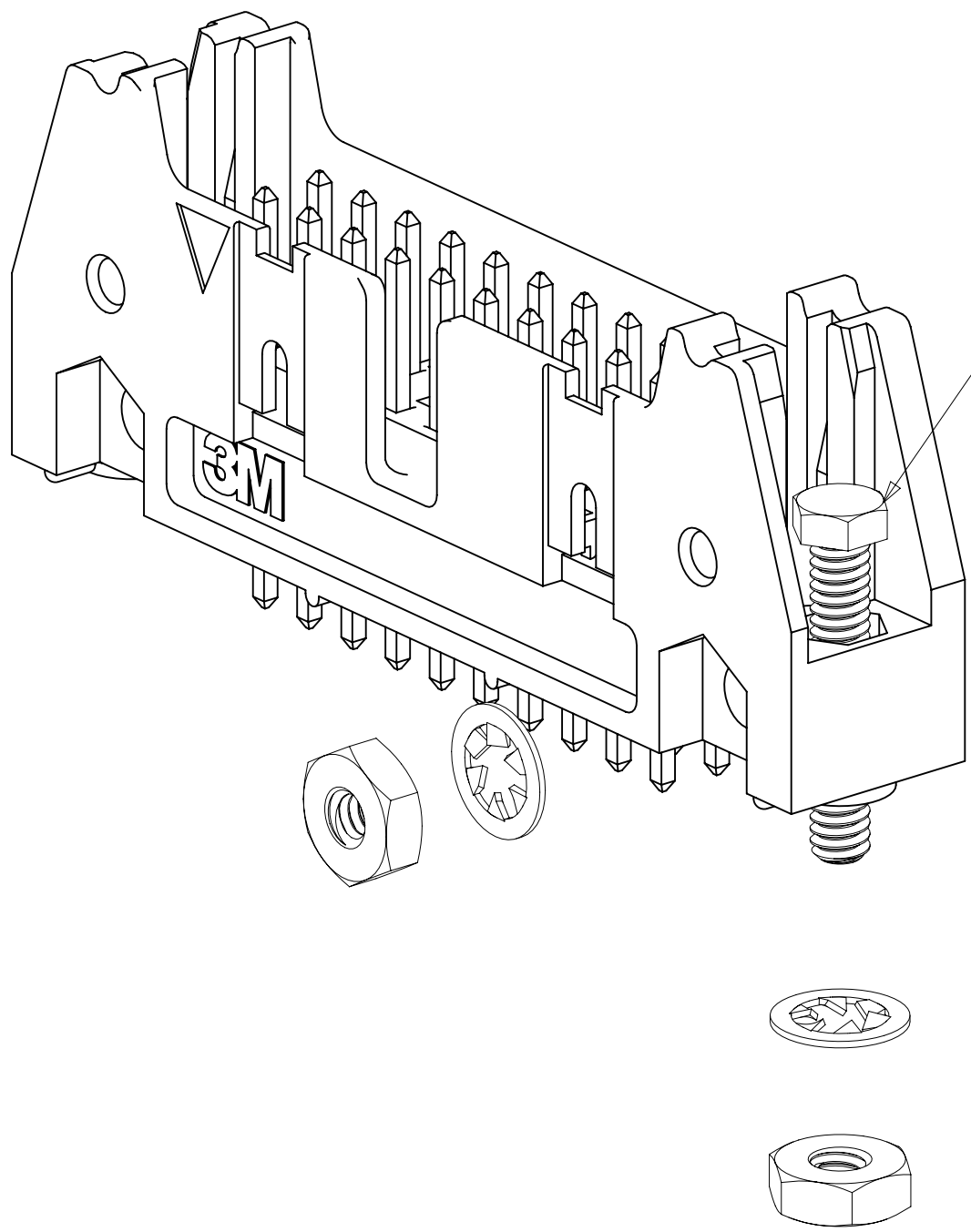
MOUNTING HARDWARE



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



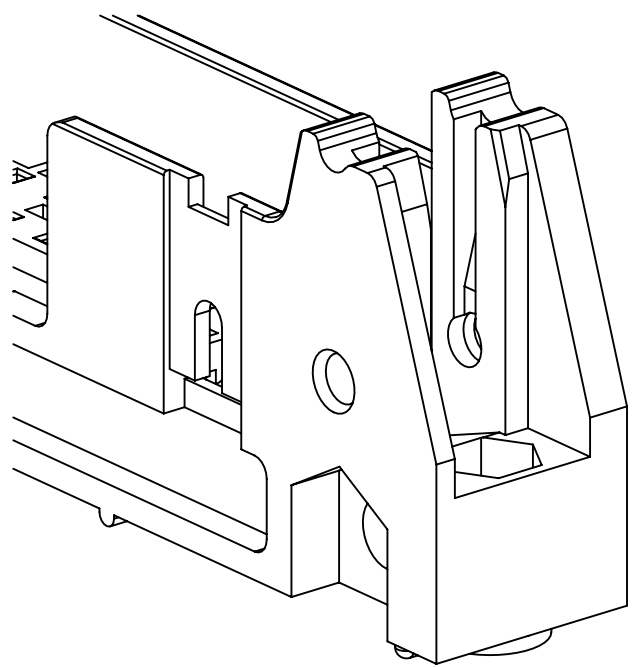
3341-6
HEX HEAD BOLT, NUT AND WASHER:
BOLT - #2-56 X 1/2"
MATERIAL: STAINLESS STEEL



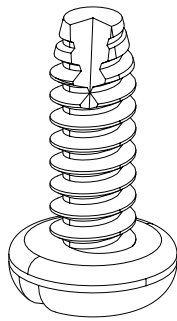
STRAIGHT VERSION INSTALL
(MUST BE INSERTED PRIOR TO
LATCH INSTALL)

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		JUL 25, 2014		R. SCHERER		SEP 05, 2014	
DIVISION		DIVISION CODE		S		60056		MAR 06, 2015	
Interconnect Solutions		EMSD		R		56068		JUL 25, 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		MODEL		3000 SERIES		DET	
S		60056		MAR 06, 2015		JNC		RS	
R		56068		JUL 25, 2014		JNC		RS	
TITLE		HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA		CAGE NUMBER		D78-5100-0772-3		REV.	
SHT 4 OF 4		LISTS		YES		NO		SHT 4 OF 4	