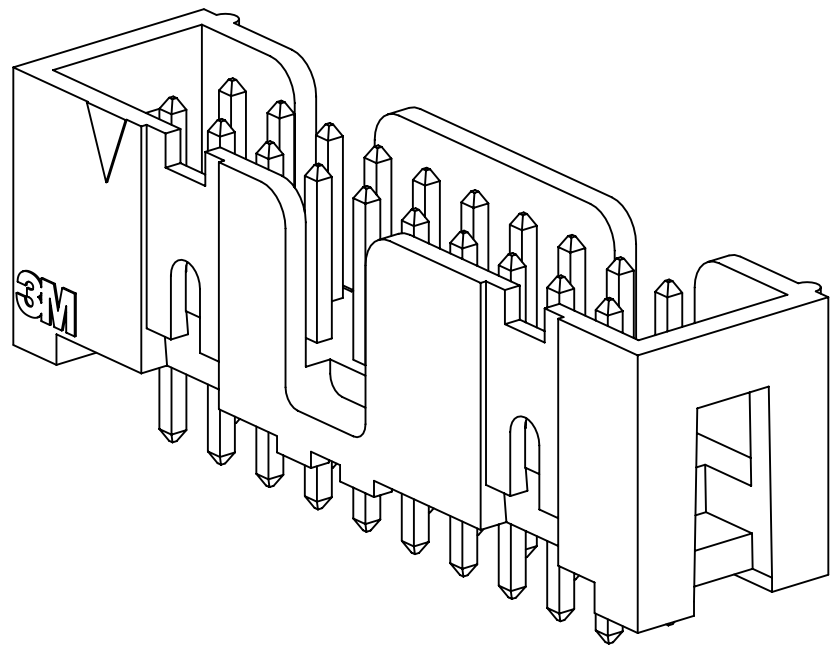


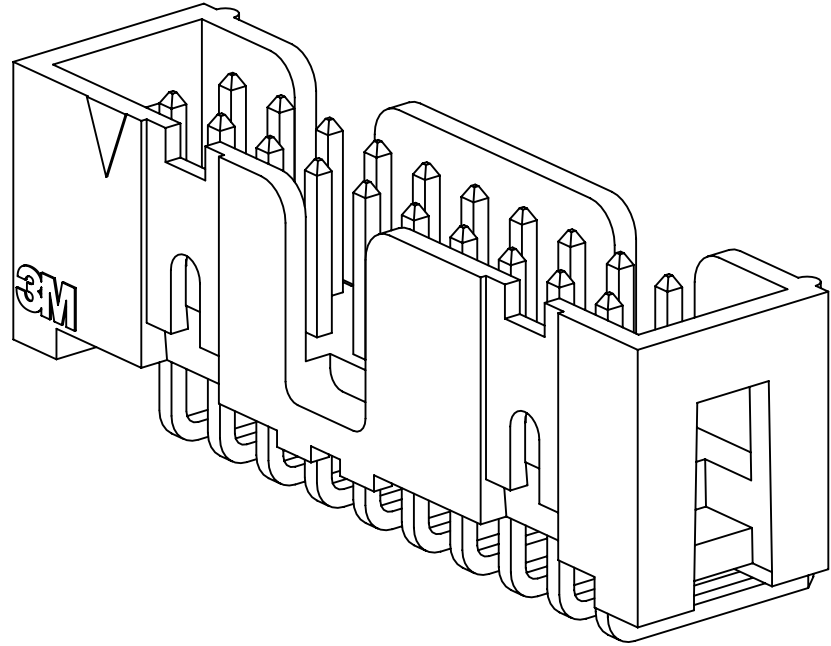
3M™ FOUR-WALL HEADER, D2500 SERIES

.100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE



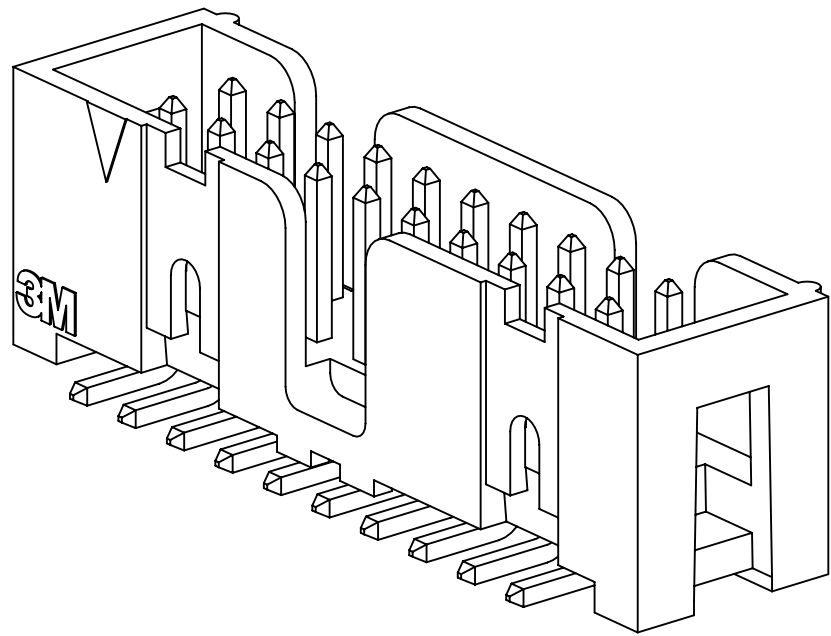
D25XX-6002

STRAIGHT VERSION



D25XX-5002

RIGHT ANGLE VERSION



D25XX-6VOC

SURFACE MOUNT VERSION

- * LOW PROFILE, SPACE SAVING DESIGN.
- * CENTER SLOT POLARIZATION PREVENTS MIS-INSERTIONS AND REDUCES INSERTION TIME.
- * DUAL SLOT POLARIZATION MEANS BROADER COMPATIBILITY WITH COMPETITIVE POLARIZATION DESIGNS (NOT AVAILABLE ON 6, 8 OR 10 POSITIONS).
- * OPTIONAL RETAINER CLIP FOR LOCKING SOCKETS IN PLACE AND INCREASING CONNECTION RELIABILITY IN VIBRATION-PRONE ENVIRONMENTS.
- * HIGH TEMPERATURE INSULATOR SUITABLE FOR "NO LEAD" SOLDERING OPERATIONS.
- * THROUGH HOLE VERSION SUITABLE FOR REFLOW SOLDERING USING "PASTE IN HOLE" TECHNIQUES.
- * EXPOSED SOLDER TAILS (ON RIGHT ANGLE VERSION) PROVIDE EASE OF CLEANING AND REDUCED REPAIR COST.
- * STRAIGHT SURFACE MOUNT VERSION AVAILABLE.

2 PHYSICAL :

INSULATOR:
MATERIAL: HIGH TEMP GLASS FILLED POLYESTER (PCT)
FLAMMABILITY: UL94V-0
COLOR: BLACK
CONTACT:
MATERIAL: BRASS
PLATING:
UNDER PLATING: 50-100µ" [1.27-2.54µm] NICKEL-OVERALL
WIPING AREA: 10µ" [25µm] GOLD
SOLDER TAILS: 40-120µ" [1-3µm] MATTE TIN
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)

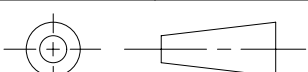
- NOTES
1. REGULATORY INFORMATION: ROHS COMPLIANT. SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "ROHS COMPLIANCE" SECTION OF WWW.3MCONNECTORS.COM FOR COMPLIANCE INFORMATION.
 2. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
 3. NOTCHES A & C WILL ACCOMODATE 3M POLARIZING KEY: N3518.
 4. CONTACT TAILS .0245 [.622] WIRE WITH .0075 [.191] CORNER RADI AND .028 [.072] DIAGONAL.
 5. SOLDER STANDOFFS FACILITATE .01 [.3] CLEARANCE ABOVE BOARD FOR REFLOW SOLDERING.

3M ELECTRONIC MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3mconnectors.com>

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INFORMATION CALL 800-225-5373

UL **us**
UL FILE NO: E68080

DIMENSIONS: INCHES [MM]
[MM] IS REF. ONLY

DESIGNATIONS: INCHES [MM]				H 6890B		AUG 05,2016		JNC	SC
IS REF. ONLY				REVISED AND REDRAWN					
DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ACCESS CODES		CATTIGLIONE		DATE	AUG 05,2016		APPRV	DATE	
		CHKD		DATE			S. CLATANOFF	AUG 05,2016	
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2016					
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 4 1		TOLERANCES EXCEPT AS NOTED					
				INCHES		TITLE			
				.0 .00 .000 .0000		HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA			
THIRD ANGLE PROJECTION				MILLIMETERS					
				0 .3 .13 .000		CAGE NUMBER			
MAX SURFACE ROUGHNESS				.00 .00 .000		SIZE DRAWING NO.		REV.	
SURFACES				.00 .00 .000		D 78-5100-2244-1		H	
☒ MARKED ONLY				ANGLES		MODEL		DET.	
						D2500 SERIES		LISTS ☐ YES ☒ NO	
								SHT 1 OF 6	

3M™ FOUR-WALL HEADER, D2500 SERIES
.100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE

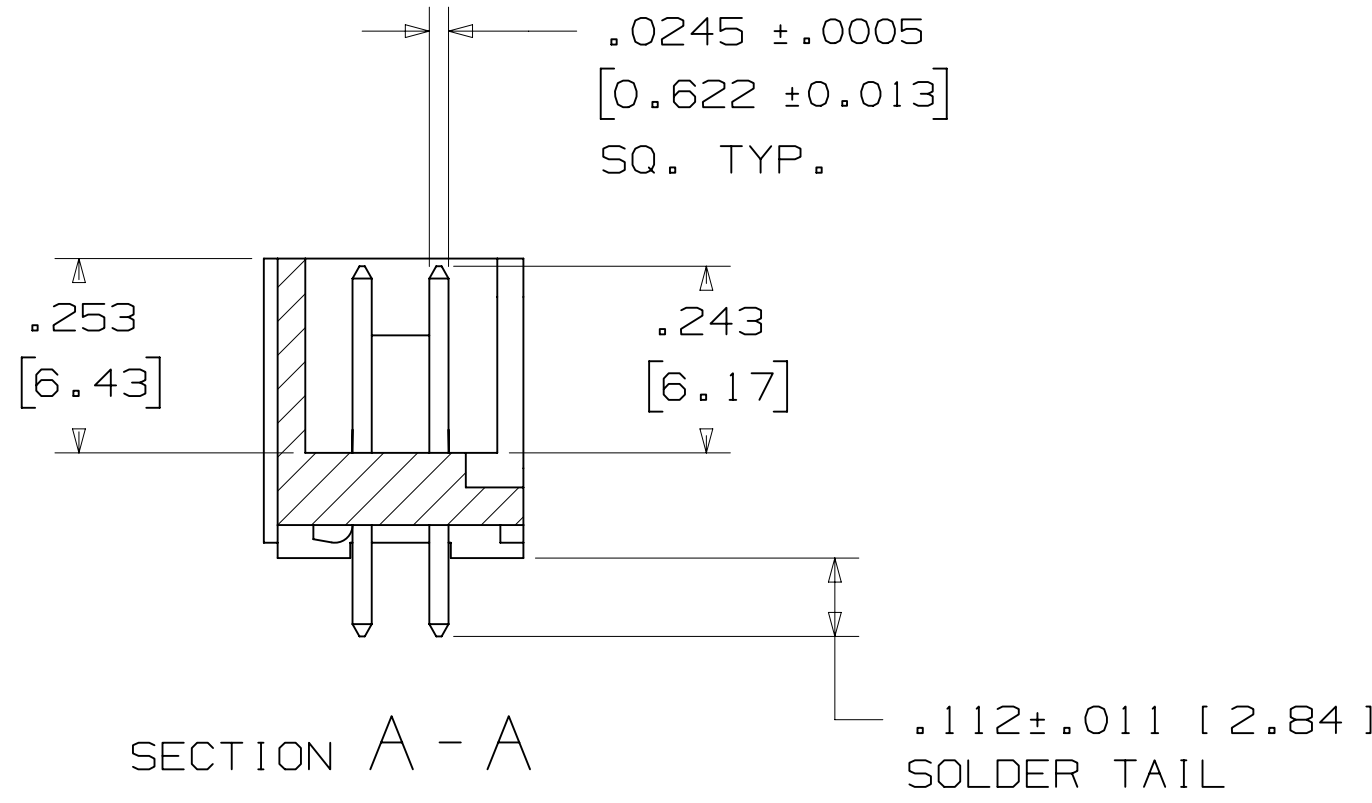


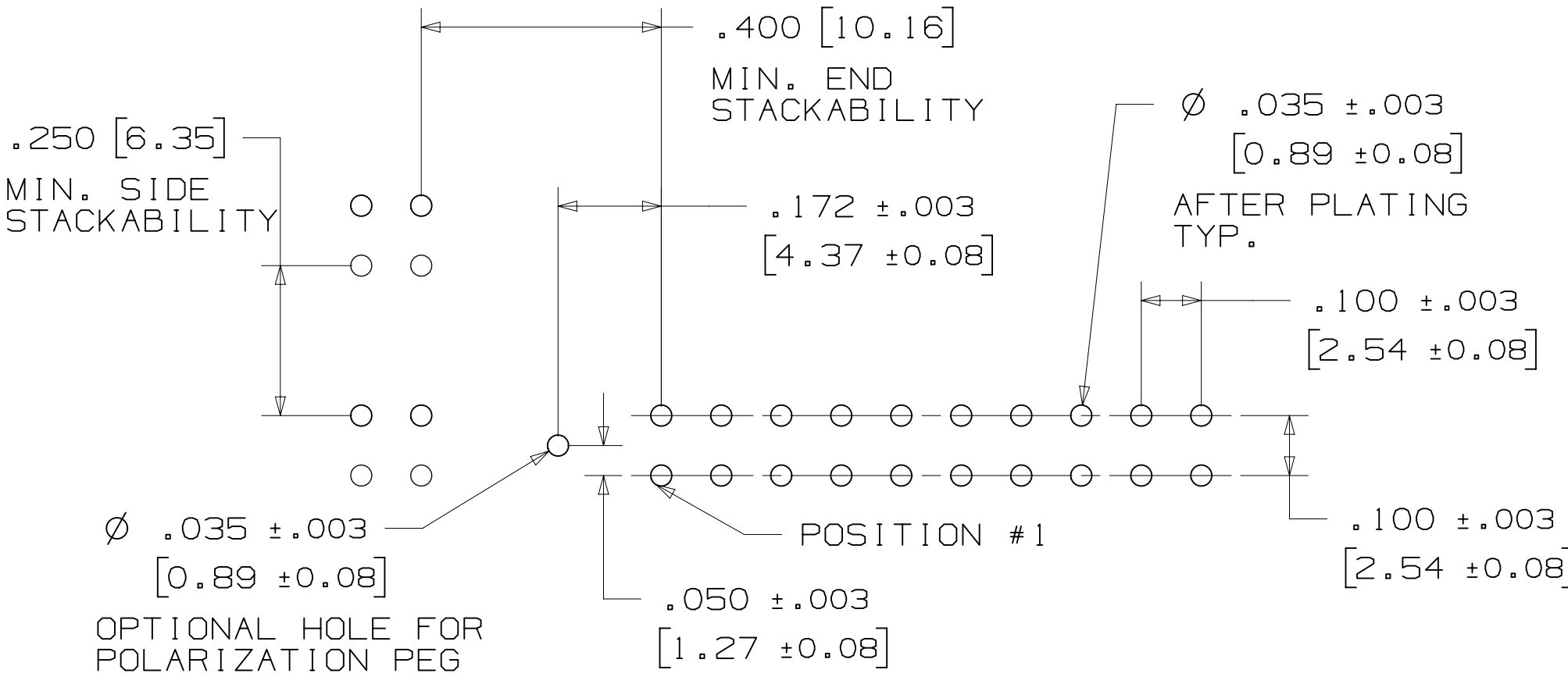
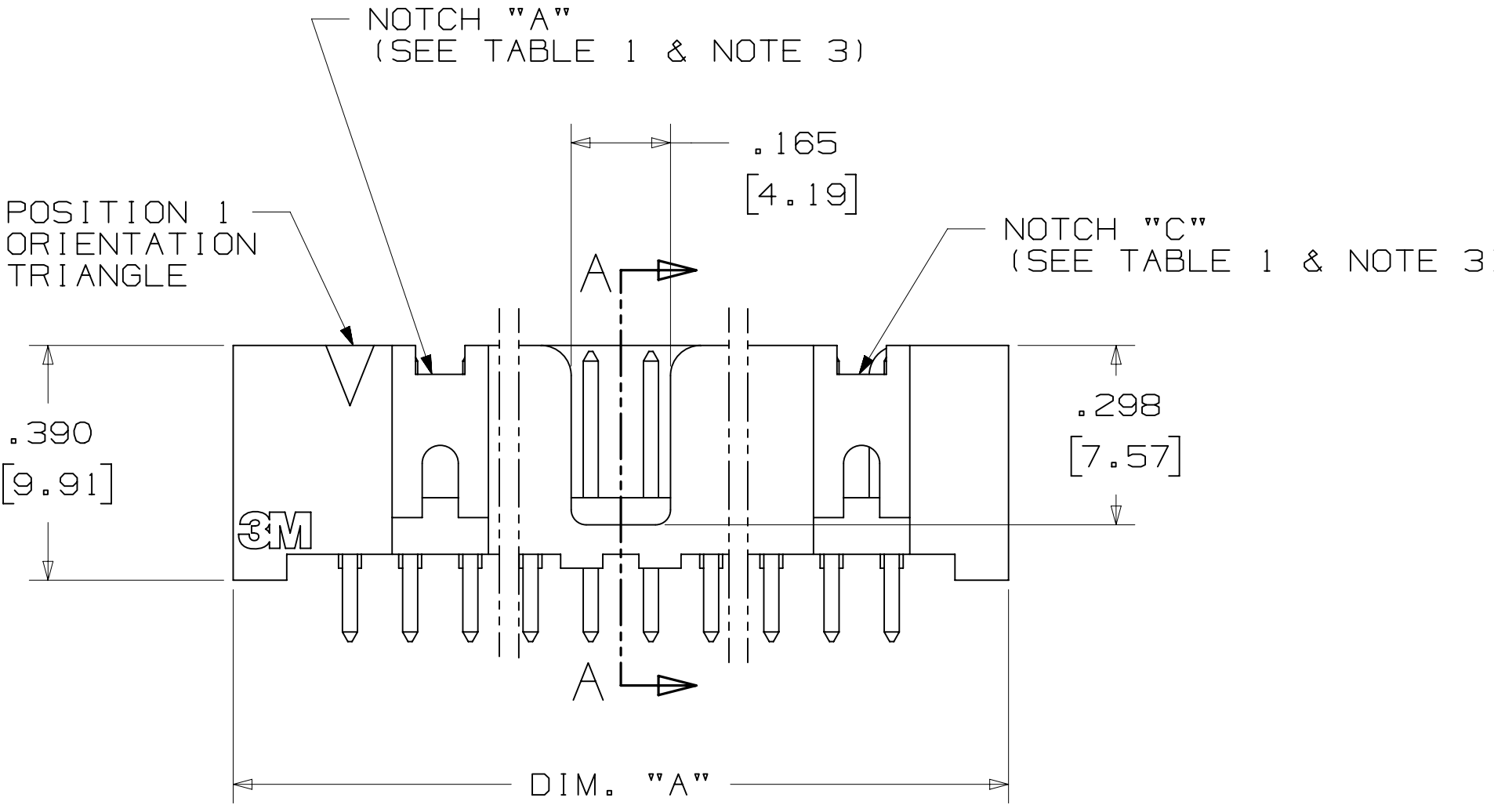
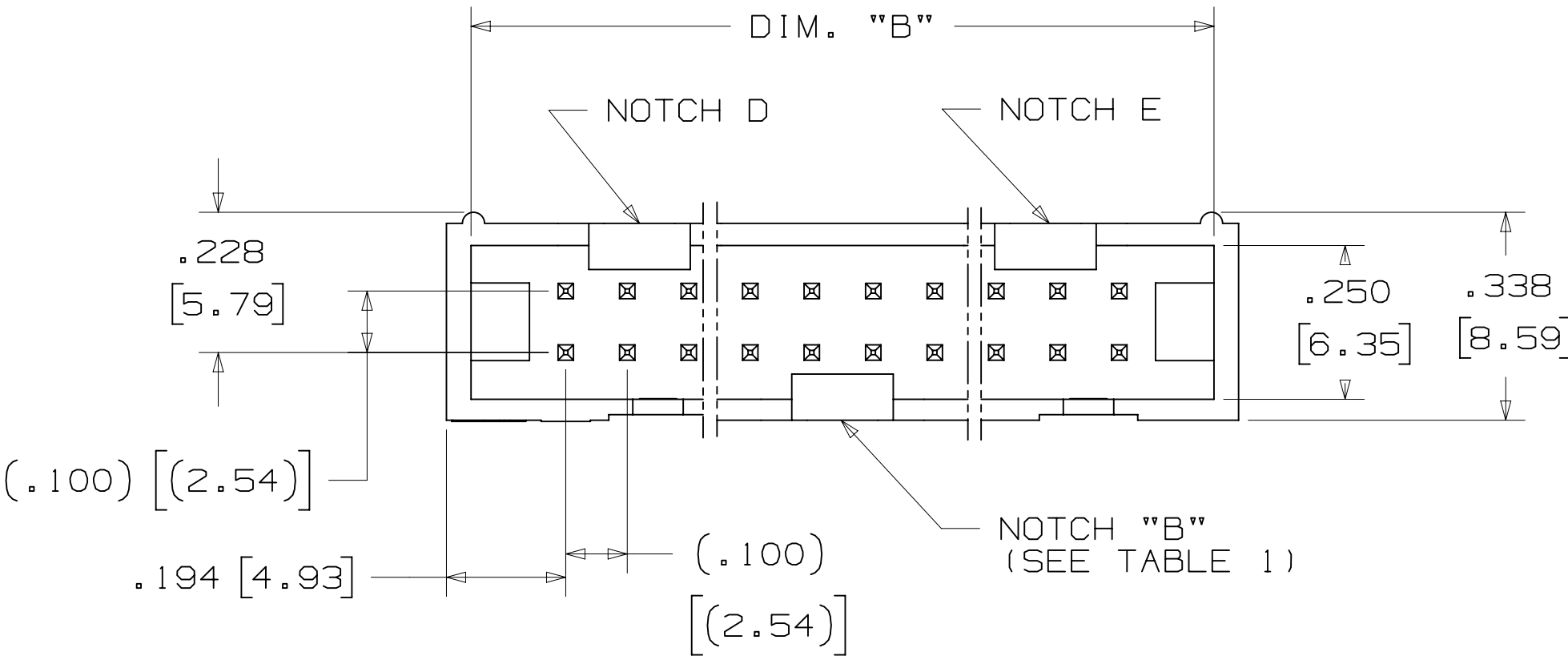
TABLE 1				
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	06
08	.688 [17.48]	.608 [15.44]	B	08
10	.788 [20.02]	.708 [17.98]	BC	10
14	.988 [25.10]	.908 [23.06]	BCDE	14
16	1.088 [27.64]	1.008 [25.60]	ABCDE	16
20	1.288 [32.72]	1.208 [30.68]	ABCDE	20
24	1.488 [37.80]	1.408 [35.76]	ABCDE	24
26	1.588 [40.34]	1.508 [38.30]	ABCDE	26
30	1.788 [45.42]	1.708 [43.38]	ABCDE	30
34	1.988 [50.50]	1.908 [48.46]	ABCDE	34
36	2.088 [53.04]	2.008 [51.00]	ABCDE	36
40	2.288 [58.12]	2.208 [56.08]	ABCDE	40
50	2.788 [70.82]	2.708 [68.78]	ABCDE	50
60	3.288 [83.52]	3.208 [81.48]	ABCDE	60
64	3.488 [88.60]	3.408 [86.56]	ABCDE	64

ORDERING INFORMATION
STRAIGHT VERSION
D25XX-6002-AR

PIN QUANTITY:
(SEE TABLE 1)

SOLDER TAIL:
FOR .062 [1.57] THICK BOARD

PLATING:
AR = 10µ" [0.25µm] GOLD
(R1A, E1 & C1 APPLY)



RECOMMENDED HOLE PATTERN
SHOWN FROM COMPONENT SIDE

DESIGN REFERENCE		NEXT ASSEMBLY		H 68908		AUG 05,2016		JNC		SC	
REV		ECO		REVISED AND REDRAWN		DATE		DRFT		CHKD	
CAGE CODE		DATE		MFG		DATE		DATE		DATE	
CHKD		DATE		APPR		DATE		DATE		DATE	
DIVISION		DIVISION CODE		3M Center		St. Paul,		MN		95144	
Interconnect Solutions		EMSD		3M		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.		© 3M COPYRIGHT 2016			
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THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		CAGE NUMBER		SIZE		DRAWING NO.		REV.	
MAX SURFACE ROUGHNESS		DET		D 78-5100-2244-1		H		MODEL		D2500 SERIES	
LISTS		YES		NO		SHT 2 OF 5					

3M™ FOUR-WALL HEADER, D2500 SERIES
.100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE

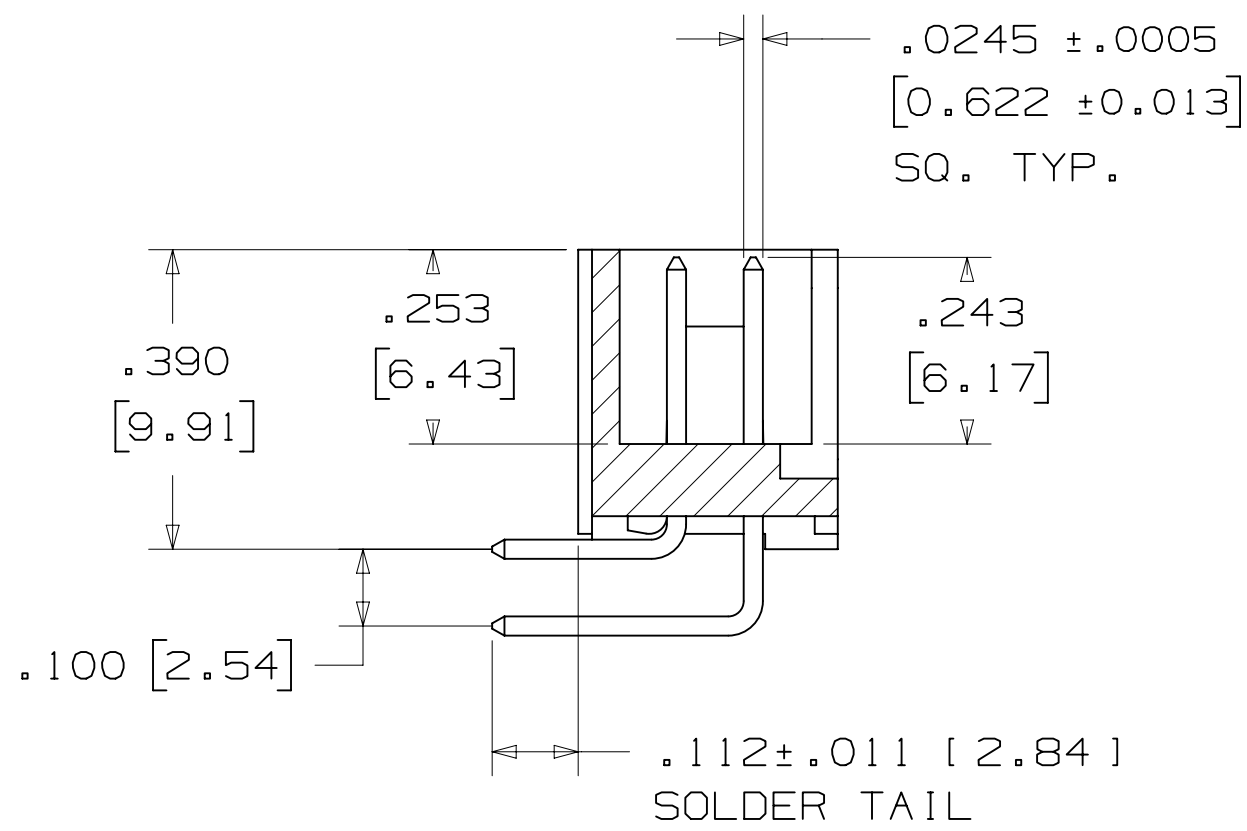


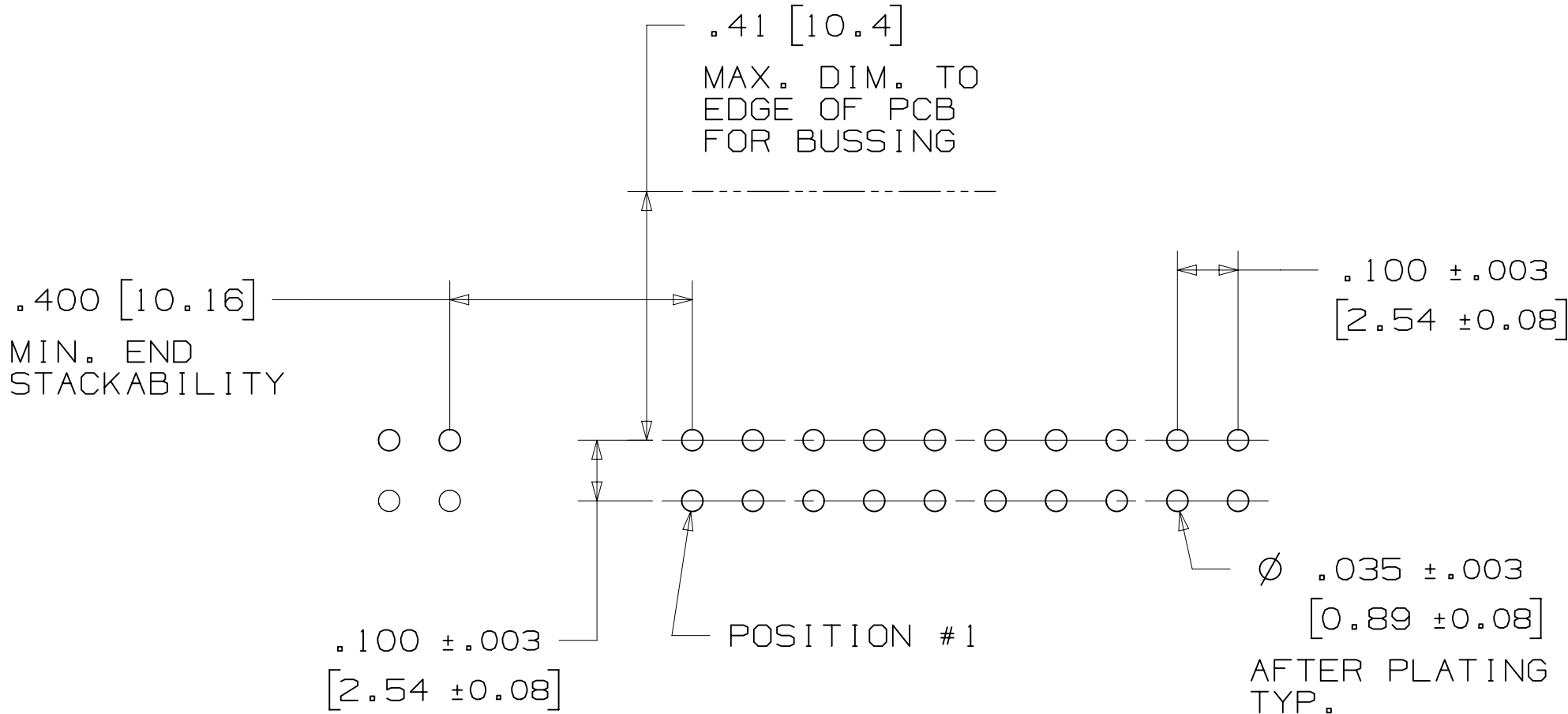
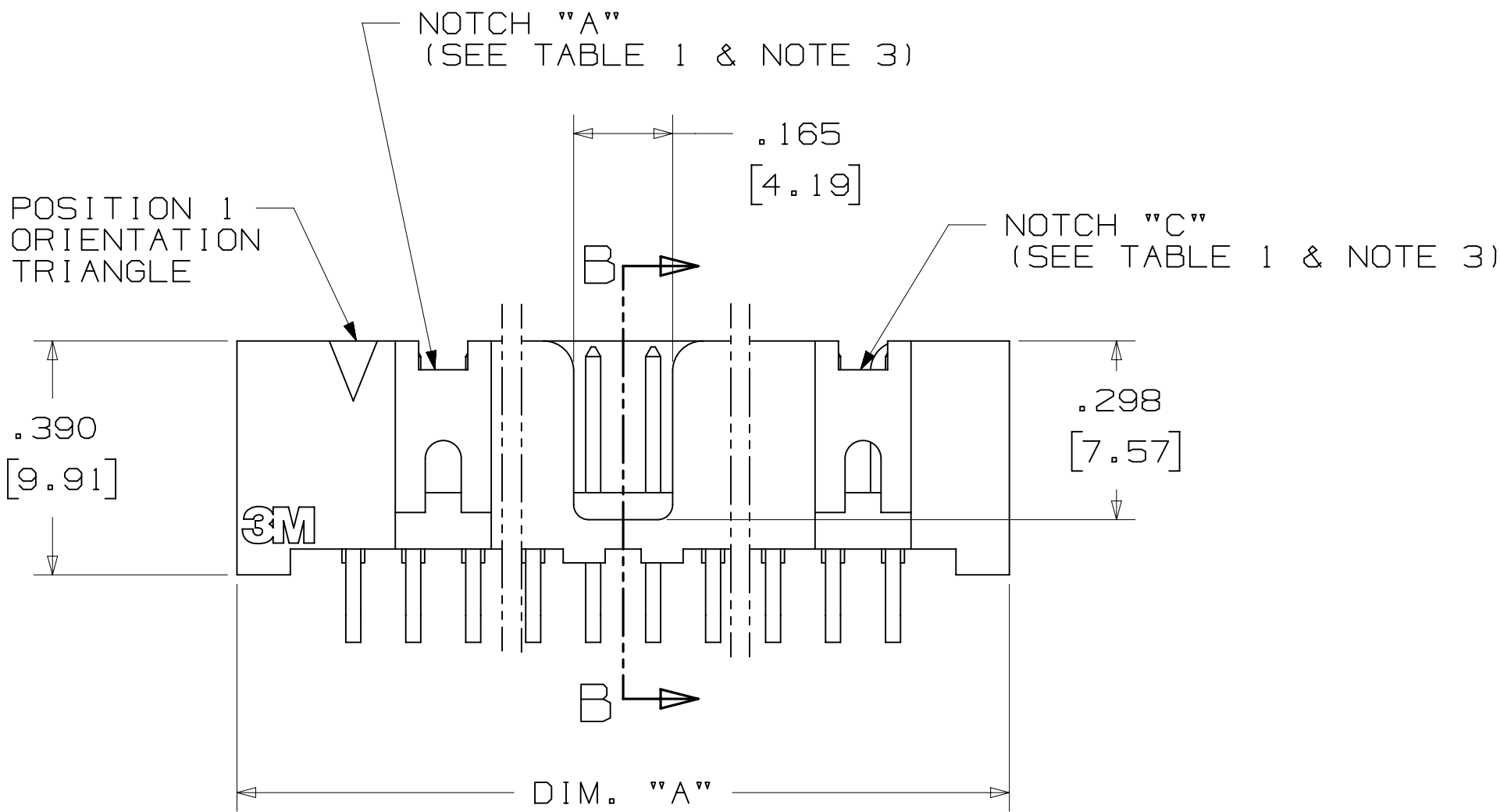
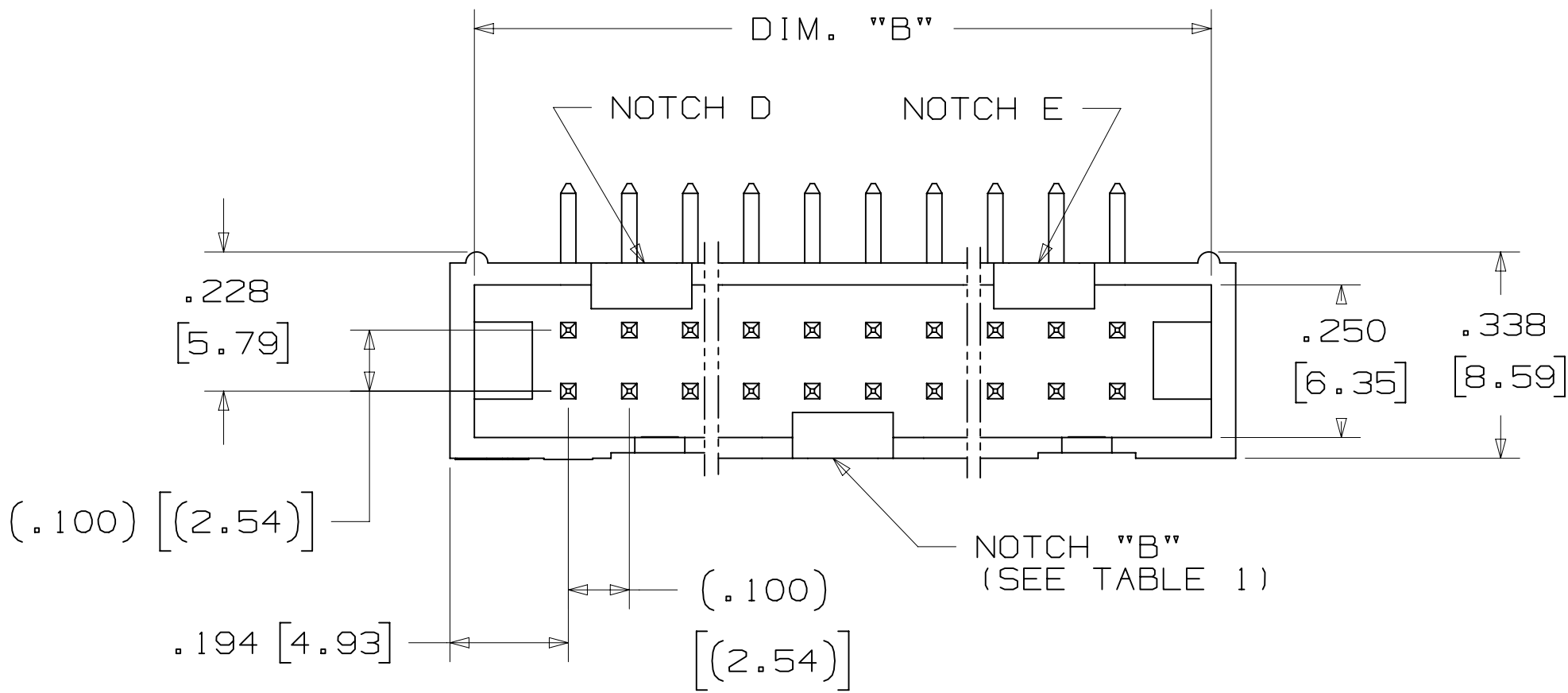
TABLE 1				
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	06
08	.688 [17.48]	.608 [15.44]	B	08
10	.788 [20.02]	.708 [17.98]	BC	10
14	.988 [25.10]	.908 [23.06]	BCDE	14
16	1.088 [27.64]	1.008 [25.60]	ABCDE	16
20	1.288 [32.72]	1.208 [30.68]	ABCDE	20
24	1.488 [37.80]	1.408 [35.76]	ABCDE	24
26	1.588 [40.34]	1.508 [38.30]	ABCDE	26
30	1.788 [45.42]	1.708 [43.38]	ABCDE	30
34	1.988 [50.50]	1.908 [48.46]	ABCDE	34
36	2.088 [53.04]	2.008 [51.00]	ABCDE	36
40	2.288 [58.12]	2.208 [56.08]	ABCDE	40
50	2.788 [70.82]	2.708 [68.78]	ABCDE	50
60	3.288 [83.52]	3.208 [81.48]	ABCDE	60
64	3.488 [88.60]	3.408 [86.56]	ABCDE	64

ORDERING INFORMATION
RIGHT ANGLE VERSION
D25XX-5002-AR

PIN QUANTITY: (SEE TABLE 1)

PLATING:
AR = 10μ" [0.25μm] GOLD
(R1A, E1 & C1 APPLY)

SOLDER TAIL:
FOR .062 [1.57] THICK BOARD



RECOMMENDED HOLE PATTERN
SHOWN FROM COMPONENT SIDE

DESIGN REFERENCE		NEXT ASSEMBLY		H 68908		AUG 05,2016		JNC SC	
REV		ECO		REVISED AND REDRAWN		DRFT		CHKD	
CAGE CODE		DATE		MFG		DATE		DATE	
CHKD		DATE		APPR		DATE		DATE	
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THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		CAGE NUMBER		SIZE		DRAWING NO.	
MAX SURFACE ROUGHNESS		DET SURFACES		MODEL		D2500 SERIES		REV.	
MARKED ONLY		ANGLES		DET		YES NO		SHT 3 OF 5	

3M™ FOUR-WALL HEADER, D2500 SERIES
.100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE

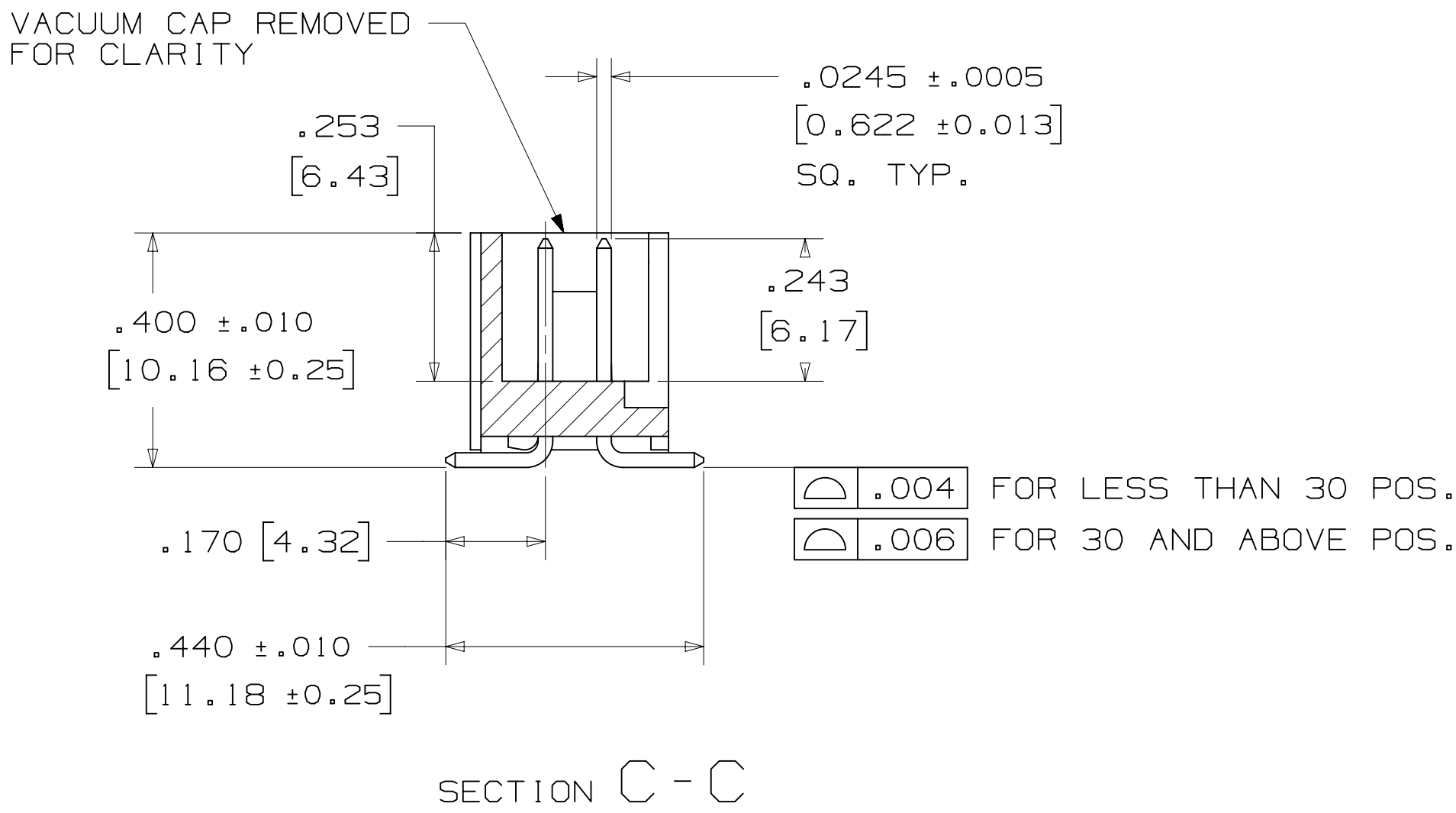


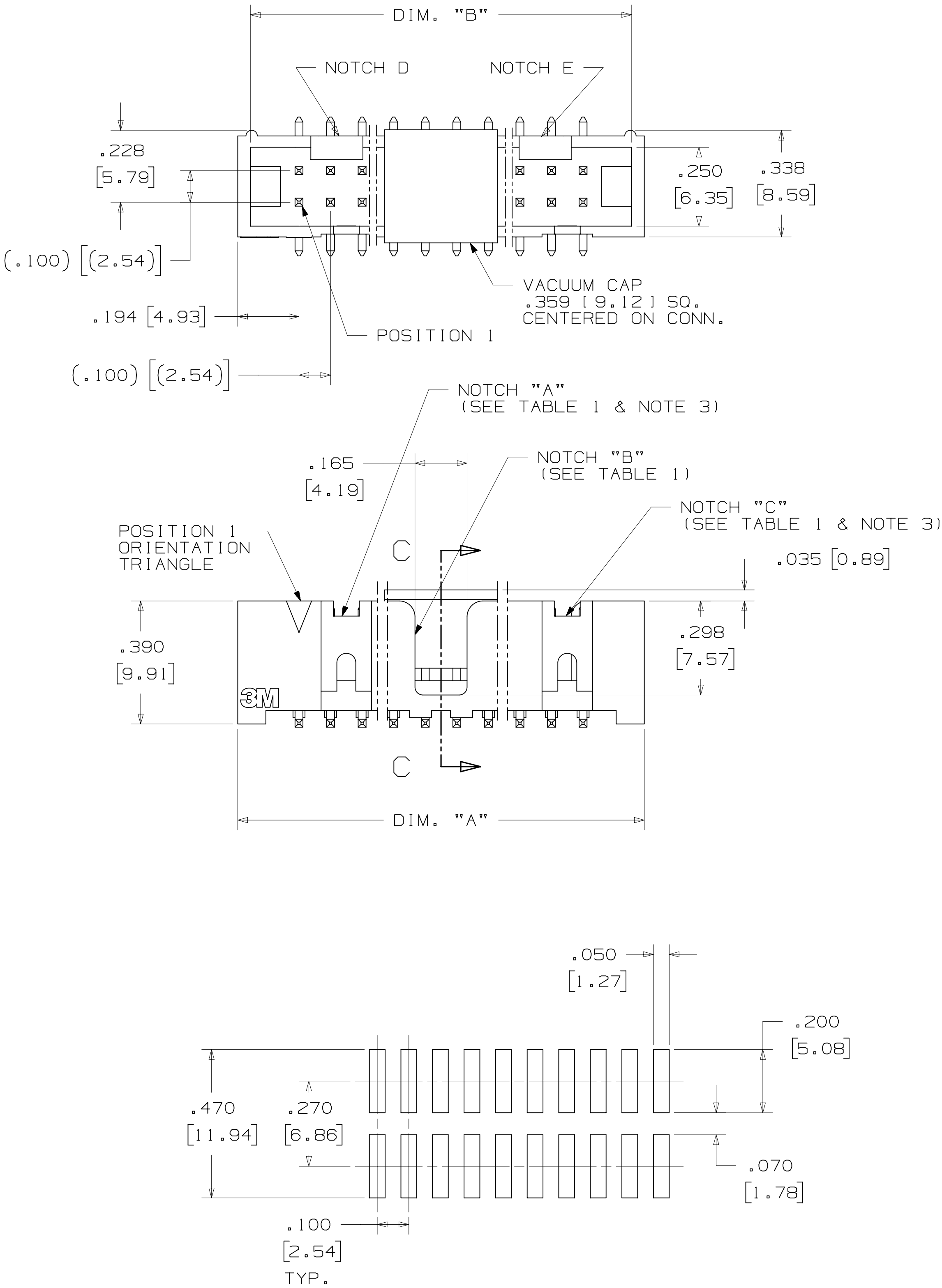
TABLE 1					
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	TAPE AND REEL PKG CODE	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	WD (44 MM)	06
08	.688 [17.48]	.608 [15.44]	B	WD (44 MM)	08
10	.788 [20.02]	.708 [17.98]	BC	WD (44 MM)	10
14	.988 [25.10]	.908 [23.06]	BCDE	WD (44 MM)	14
16	1.088 [27.64]	1.008 [25.60]	ABCDE	WD (44 MM)	16
20	1.288 [32.72]	1.208 [30.68]	ABCDE	WE (56 MM)	20
24	1.488 [37.80]	1.408 [35.76]	ABCDE	WE (56 MM)	24
26	1.588 [40.34]	1.508 [38.30]	ABCDE	WE (56 MM)	26
30	1.788 [45.42]	1.708 [43.38]	ABCDE	WF (72 MM)	30
34	1.988 [50.50]	1.908 [48.46]	ABCDE	WF (72 MM)	34
36	2.088 [53.04]	2.008 [51.00]	ABCDE	WG (88 MM)	36
40	2.288 [58.12]	2.208 [56.08]	ABCDE	WG (88 MM)	40
50	2.788 [70.82]	2.708 [68.78]	ABCDE	WG (88 MM)	50
60	3.288 [83.52]	3.208 [81.48]	ABCDE	WH (120 MM)	60
64	3.488 [88.60]	3.408 [86.56]	ABCDE	WH (120 MM)	64

ORDERING INFORMATION
SURFACE MOUNT VERSION
D25XX-6VOC-AR-XX

PIN QUANTITY:
(SEE TABLE 1)

PACKAGING OPTIONS:
WX = TAPE & REEL PACKAGING (SEE TABLE 1)

PLATING:
AR = 10μ" [0.25μm] GOLD
(RIA, E1 & C1 APPLY)



RECOMMENDED PAD LAYOUT

DESIGN REFERENCE		NEXT ASSEMBLY		H 68908		AUG 05,2016		JNC		SC	
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD			
CSTIGLIONE		AUG 05,2016		MFG		DATE					
CHKD		DATE		APPRV		DATE		APPRV		DATE	
CHKD		DATE		APPRV		DATE		APPRV		DATE	
DIVISION		INTERCONNECT SOLUTIONS		DIVISION CODE		EMSD					
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED							
THIRD ANGLE PROJECTION				INCHES							
INTERPRET PER ASME Y14.5 - 2009				MILLIMETERS							
MAX SURFACE ROUGHNESS				ANGLES							
MARKED ONLY											
CAGE NUMBER		D78-5100-2244-1		DRAWING NO.		H					
MODEL		D2500 SERIES		DET		YES		NO		SHT 4 OF 5	

3M

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HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA

