

3M™ FOUR-WALL HEADER, 2500 SERIES
.100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE

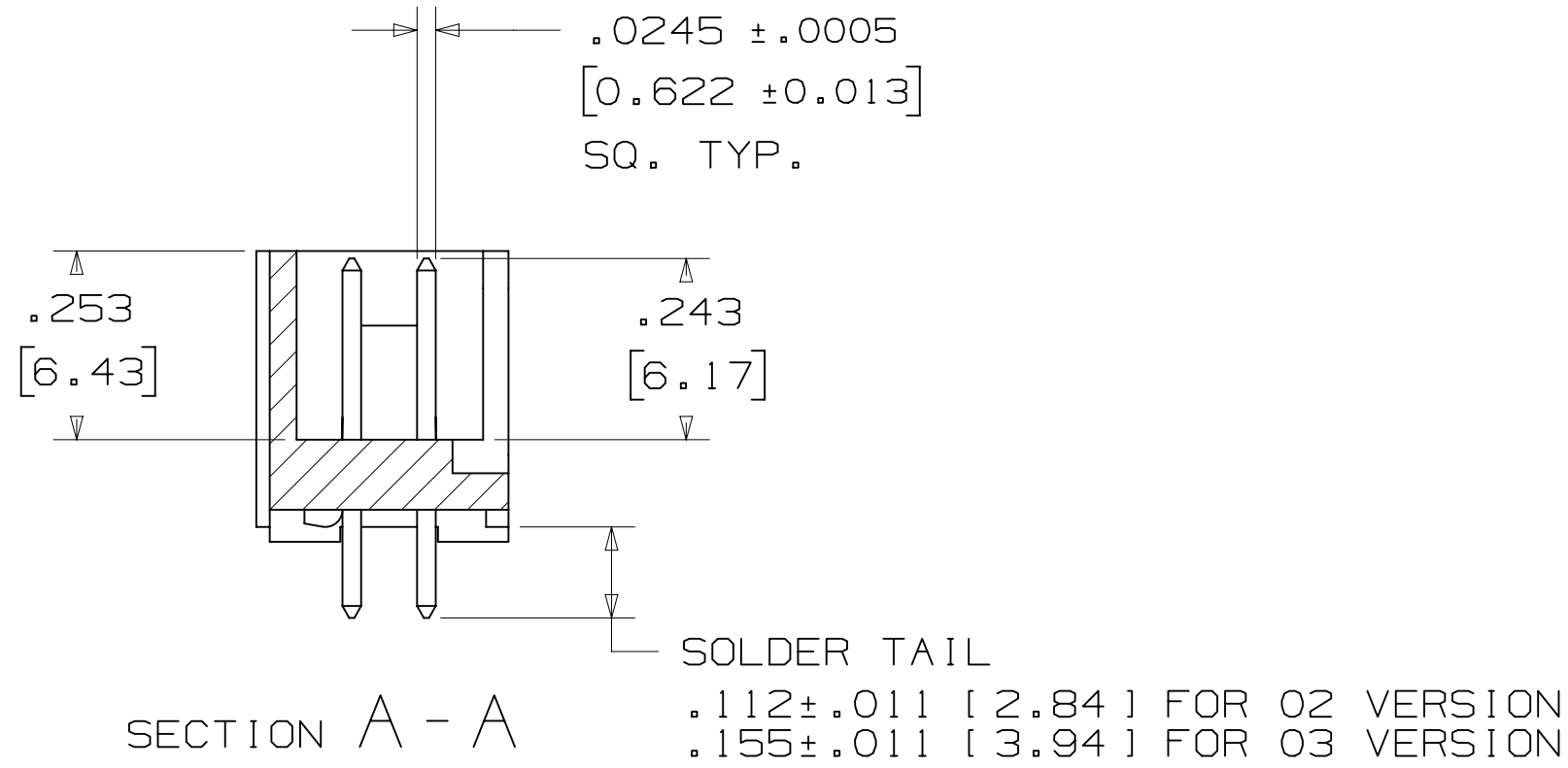
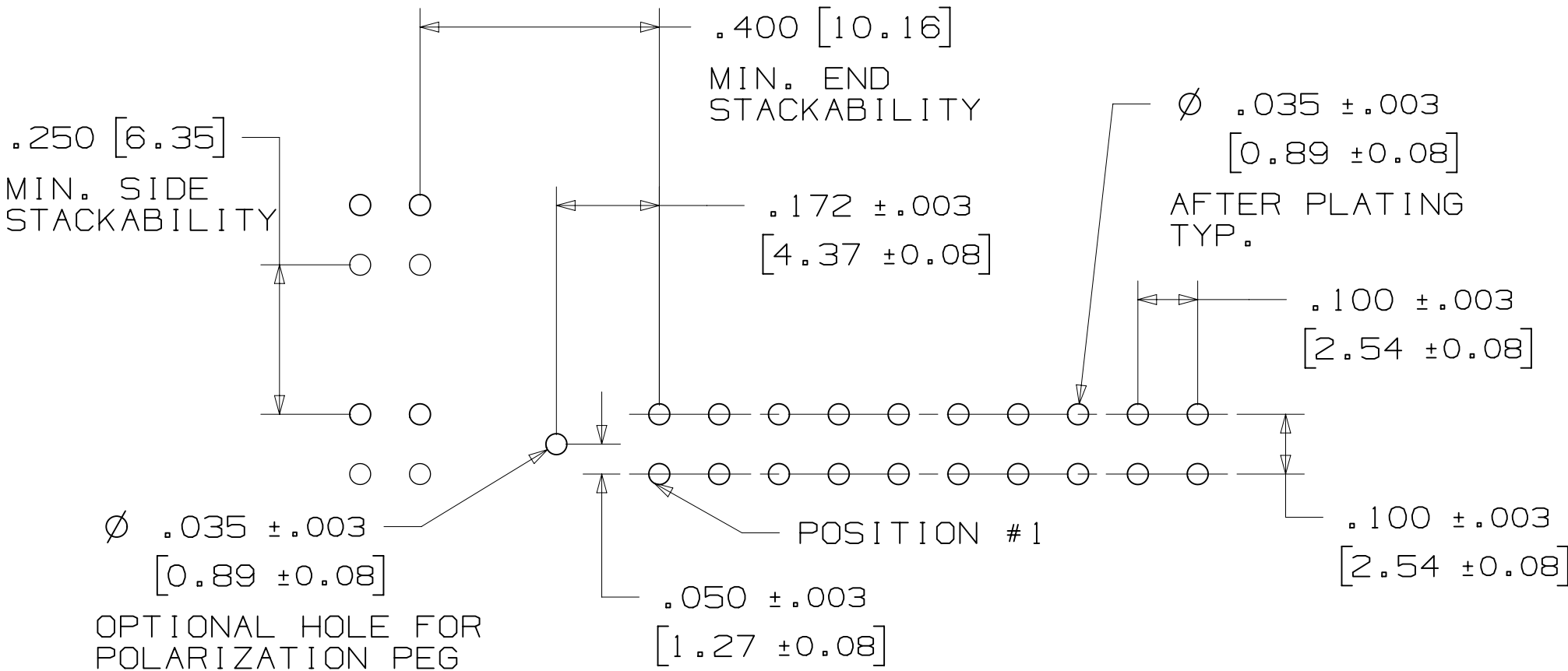
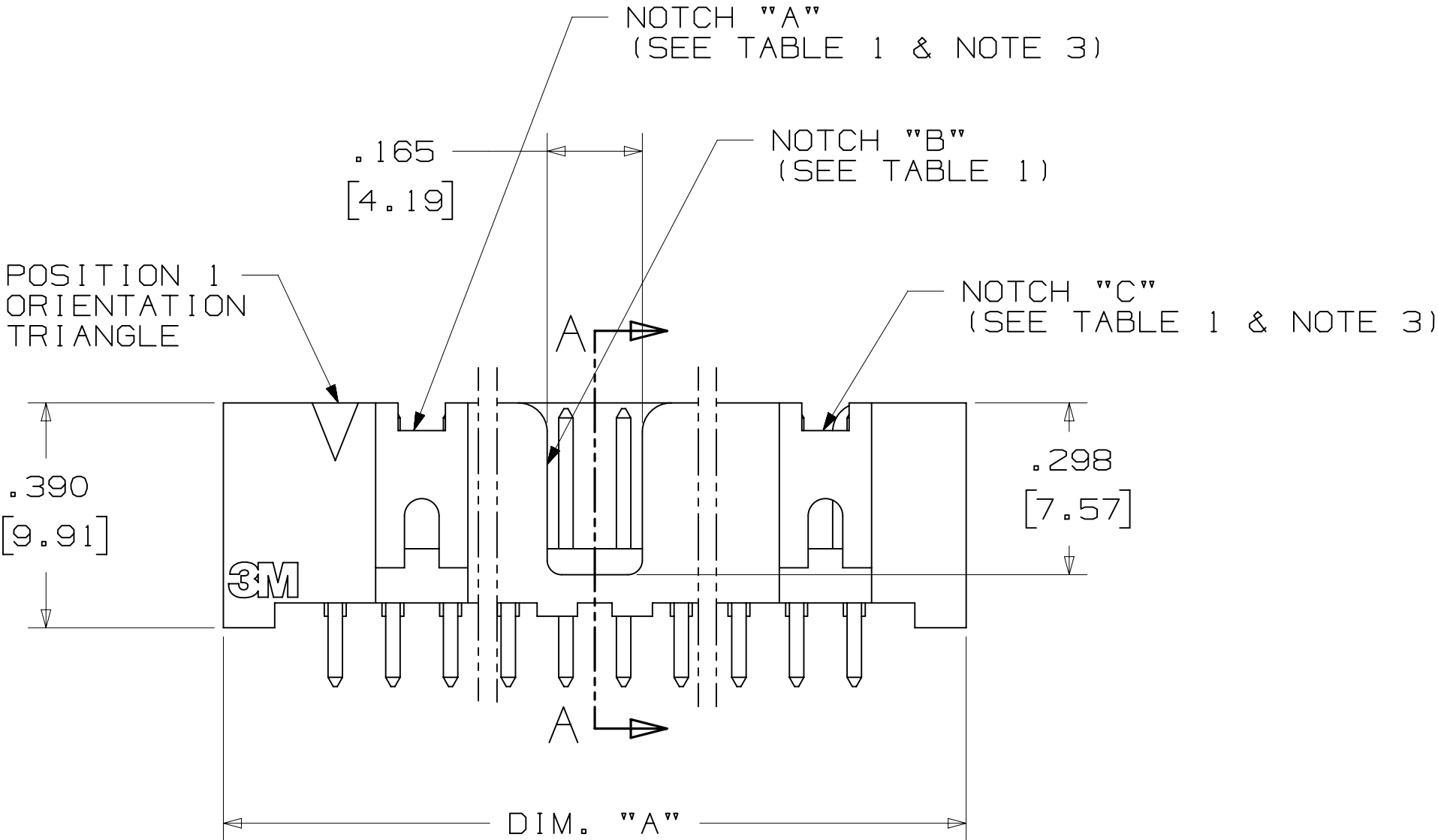
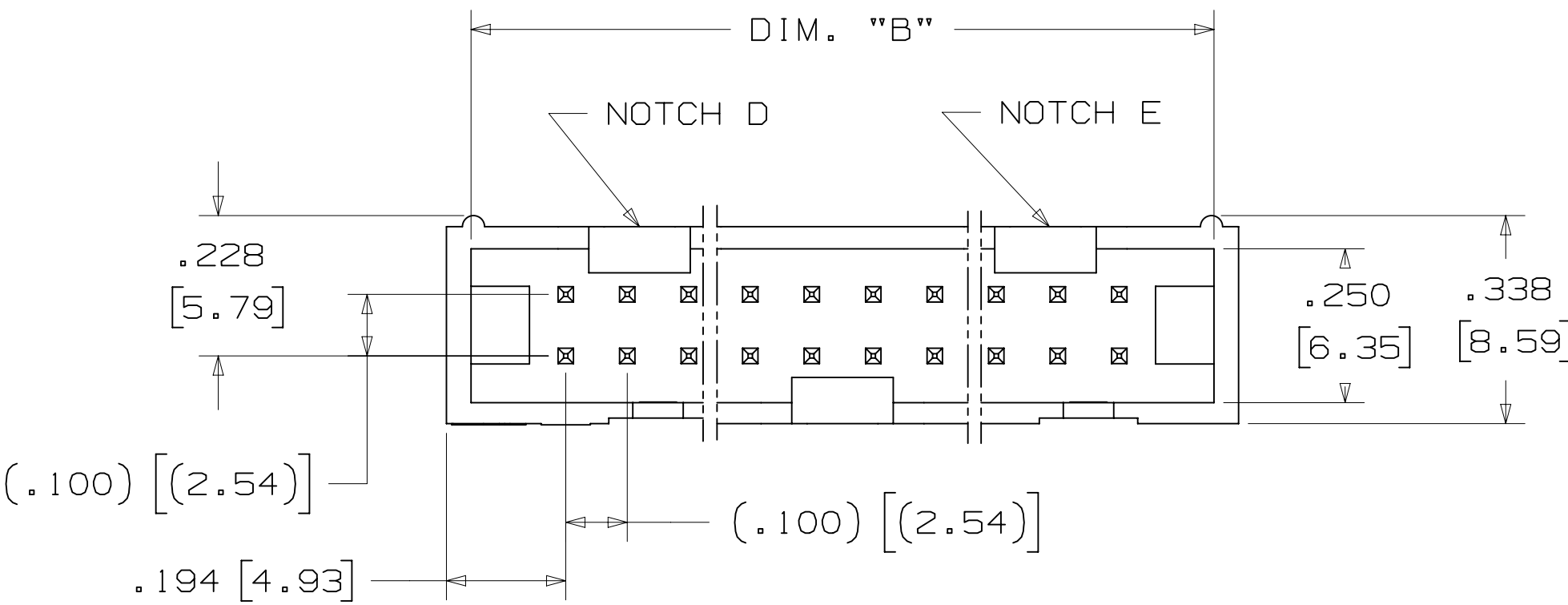


TABLE 1				
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	06
08	.688 [17.48]	.608 [15.44]	B	08
10	.788 [20.02]	.708 [17.98]	BC	10
14	.988 [25.10]	.908 [23.06]	BCDE	14
16	1.088 [27.64]	1.008 [25.60]	ABCDE	16
20	1.288 [32.72]	1.208 [30.68]	ABCDE	20
24	1.488 [37.80]	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

X25XX-60XX-XX

N= HIGH TEMP BLACK (PCT)
(RB, UB OR UG PLATING REQ'D)
BLANK= (UB OR UG PLATING)

PIN QUANTITY:
(SEE TABLE 1)

SOLDER TAIL:
02 = FOR .062 [1.57] THICK BOARD
03 = FOR .094 TO .125 [2.39 TO 3.18]
THICK BOARD

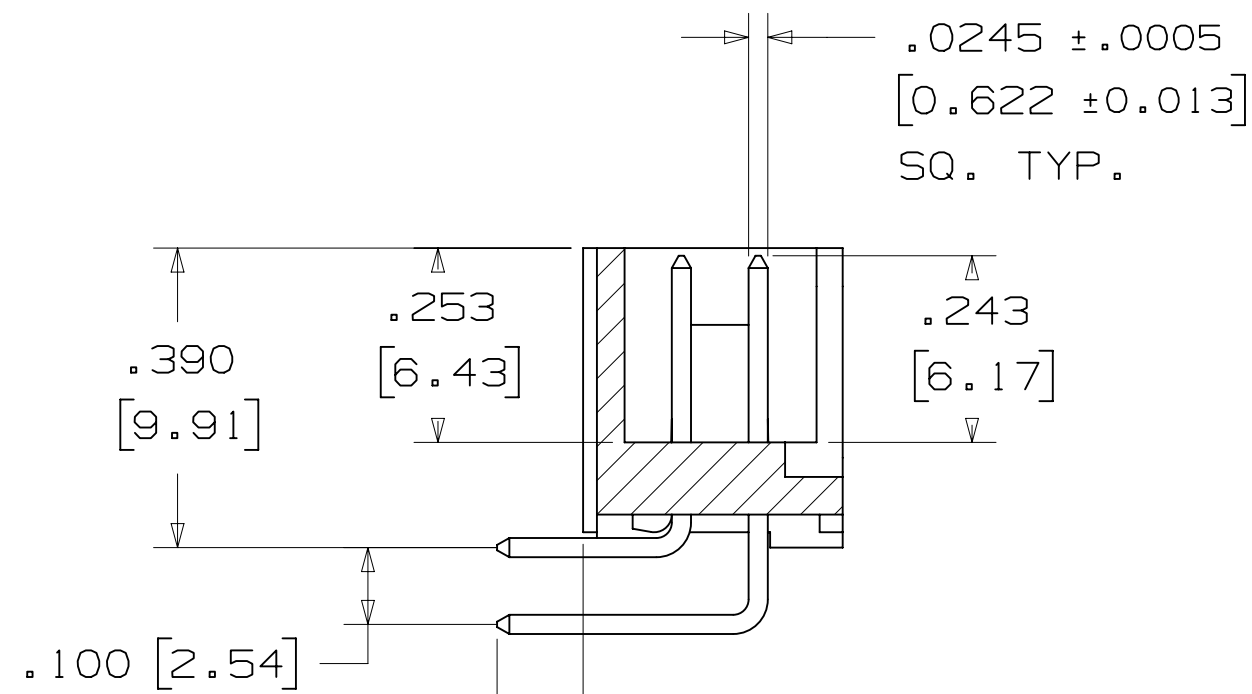
PLATING:
RB = 30μ" [0.76μm] AVG. GOLD
200μ" [5.08μm] MATTE TIN (RIA, E1 & C1 APPLY)
UG = 15μ" [0.38μm] AVG. GOLD
200μ" [5.08μm] 60:40 TIN-LEAD SOLDER TAILS
(RIA E3 & C2 APPLY)
UB = 30μ" [0.76μm] AVG. GOLD
200μ" [5.08μm] 60:40 TIN LEAD SOLDER TAILS
(RIA E3 & C2 APPLY)

RECOMMENDED HOLE PATTERN
SHOWN FROM COMPONENT SIDE

DESIGN REFERENCE		NEXT ASSEMBLY		M 56068		AUG 11, 2014		JNC		RS	
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD			
CUST CODES		CUST CODES		DATE		DATE		DATE		DATE	
DIVISION		DIVISION CODE		DATE		DATE		DATE		DATE	
Interconnect Solutions		EMSD		DATE		DATE		DATE		DATE	
DO NOT SCALE DRAWING		SCALE 4/1		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS			
THIRD ANGLE PROJECTION						.00 ±.01		0 ±.000			
MAX SURFACE ROUGHNESS						.0000 ±.0000		.00 ±.000			
INTERPRET PER ASME Y14.5 - 2009						.00 ±.000		.00 ±.000			
MAX SURFACE ROUGHNESS						.00 ±.000		.00 ±.000			
MARKED ONLY						.00 ±.000		.00 ±.000			
CAGE NUMBER		SIZE		DRAWING NO.		REV.		CAGE NUMBER		REV.	
D 78-5100-0770-7		M		M		M		D 78-5100-0770-7		M	
MODEL		3000 SERIES		DET		YES		NO		SHT 2 OF 5	

3M™ FOUR-WALL HEADER, 2500 SERIES

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



SOLDER TAIL

.112±.011 [2.84] FOR 02 VERSION
 .155±.011 [3.94] FOR 03 VERSION

SECTION B-B

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

N= HIGH TEMP BLACK (PCT) _____
(RB, UB OR UG PLATING REQ'D)
BLANK= (UB OR UG PLATING)

PIN QUANTITY:
(SEE TABLE 1)

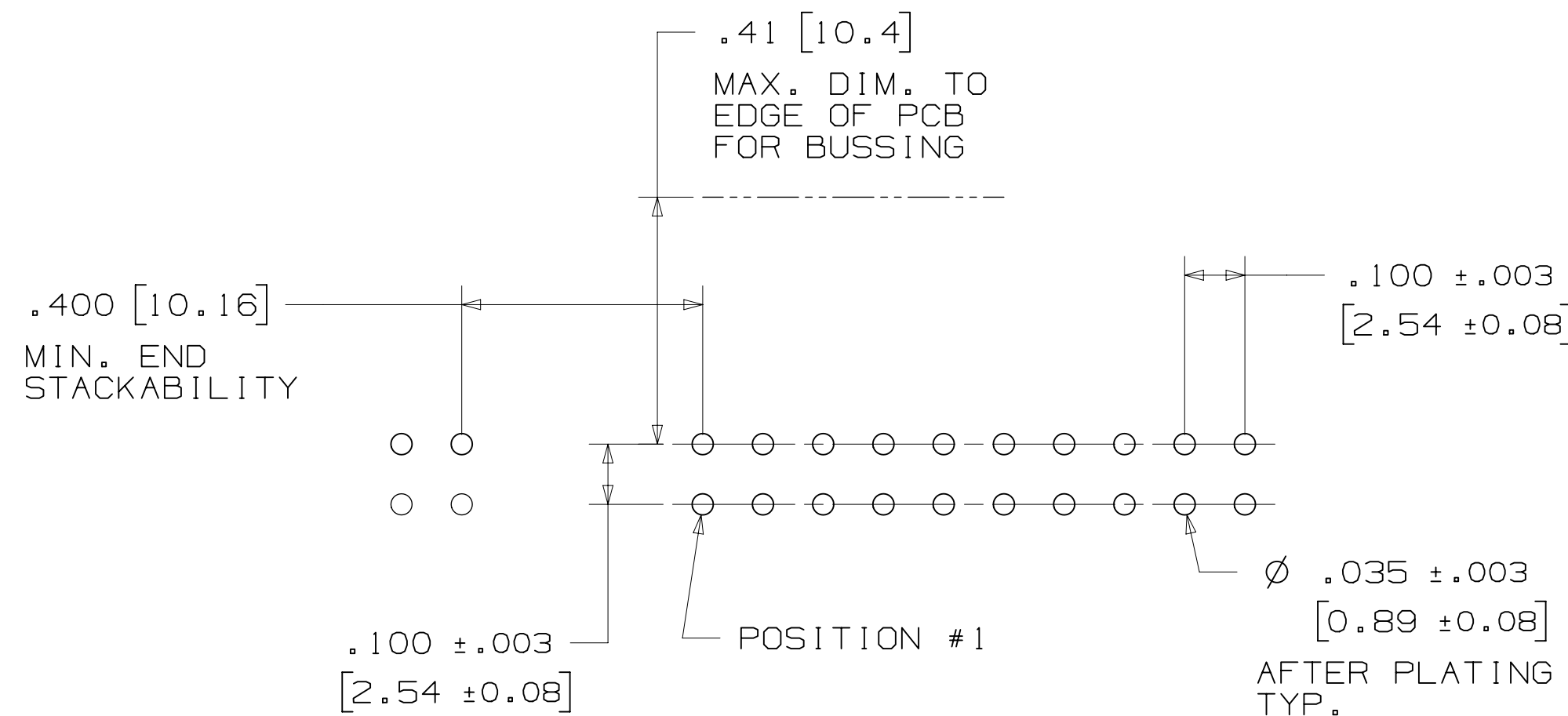
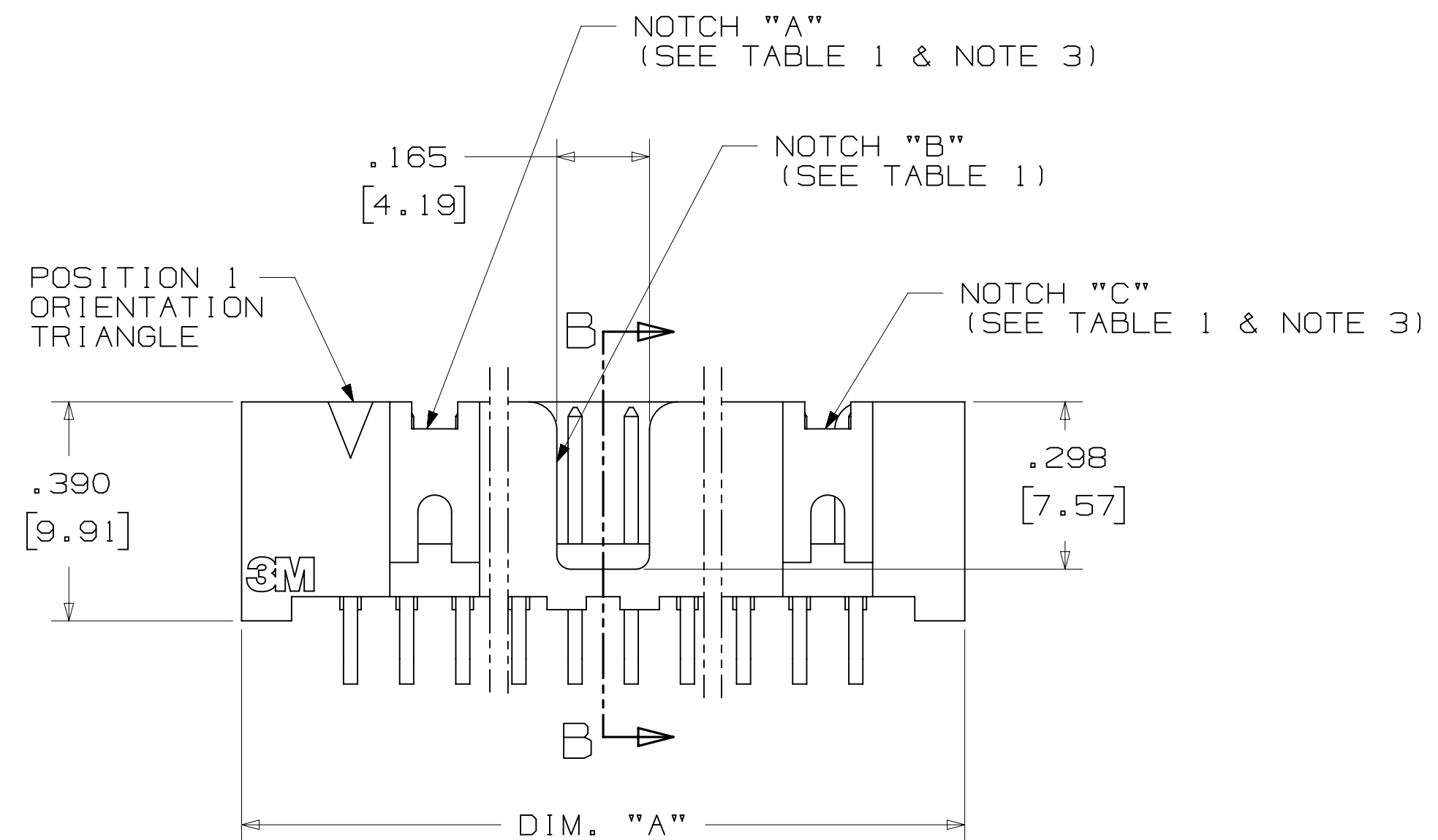
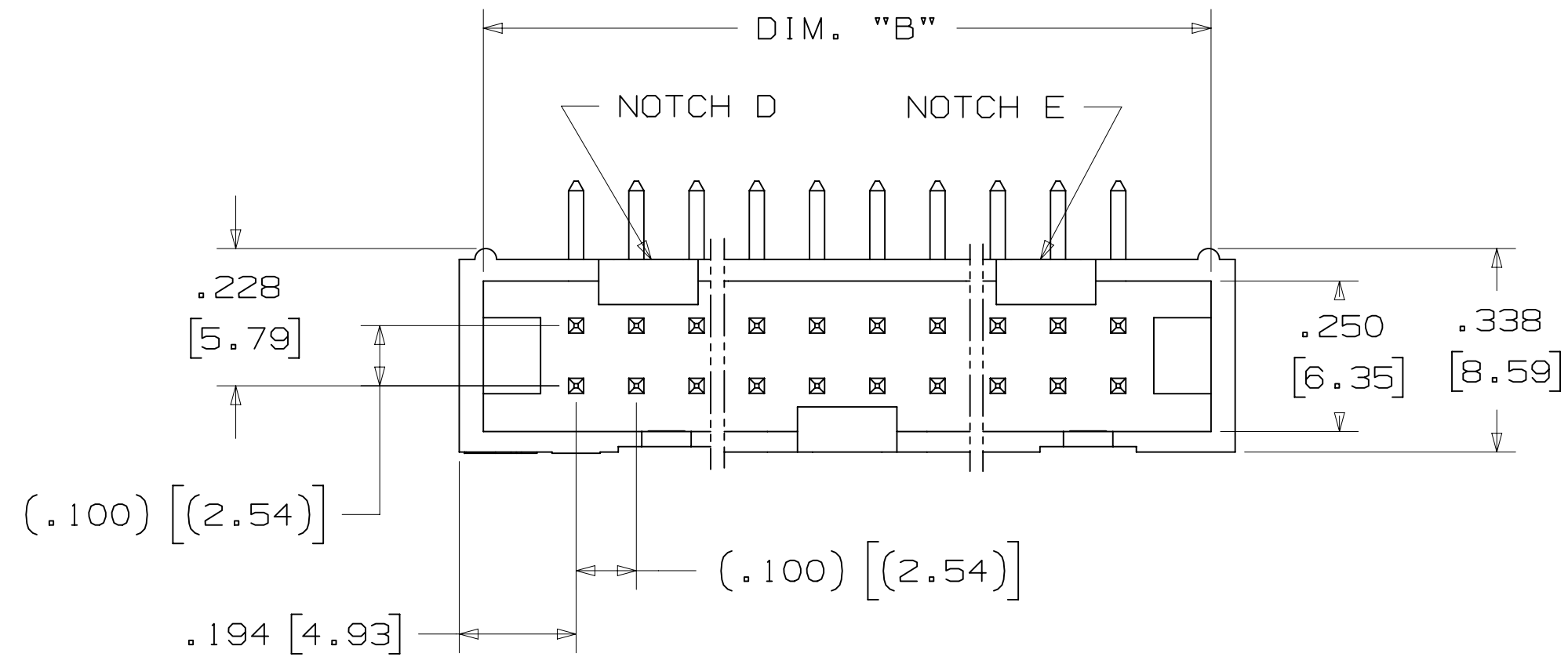
SOLDER TAIL: _____
 02 = FOR .062 [1.57] THICK BOARD
 03 = FOR .094 TO .125 [2.39 TO 3.18]
 THICK BOARD

- PLATING:

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RB = 30μ" [ 0.76μm ] AVG. GOLD
    200μ" [ 5.08μm ] MATTE TIN (RIA, E1 & C1 APPLY)
UG = 15μ" [ 0.38μm ] AVG. GOLD
    200μ" [ 5.08μm ] 60:40 TIN-LEAD SOLDER TAILS
    (RIA E3 & C2 APPLY)
UB = 30μ" [ 0.76μm ] AVG. GOLD
    200μ" [ 5.08μm ] 60:40 TIN LEAD SOLDER TAILS
    (RIA E3 & C2 APPLY)

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RECOMMENDED HOLE PATTERN
SHOWN FROM COMPONENT SIDE

M 56068		AUG 11, 2014		JNC	RS
REVISED AND REDRAWN					
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD	
GRF	CASTIGLIONE	DATE	MFG	DATE	
CHKD		DATE	APPRV.	DATE	
			R. SCHERER	SEP 05, 2014	
DIVISION		DIVISION CODE			
Interconnect Solutions		EMSD			
DO NOT SCALE DRAWING	SCALE 4 1	TOLERANCES EXCEPT AS NOTED	 3M Center St. Paul, MN 55144		
THIRD ANGLE PROJECTION		INCHES .01 .001 .0005 .0000 MILLIMETERS .1 .001 .0005 .0000			
INTERPRET PER ASME Y14.5 2009		MAX SURFACE ROUGHNESS ☐ ALL SURFACES ☒ MARKED ONLY DATE 10/15/13			
CAGE NUMBER		SIZE	DRAWING NO.	REV.	
D		D	5100-0770-7	M	
MODEL		3000 SERIES		DET. 1513 YES ☒ NO ☐	
		SHT		3 OF 5	

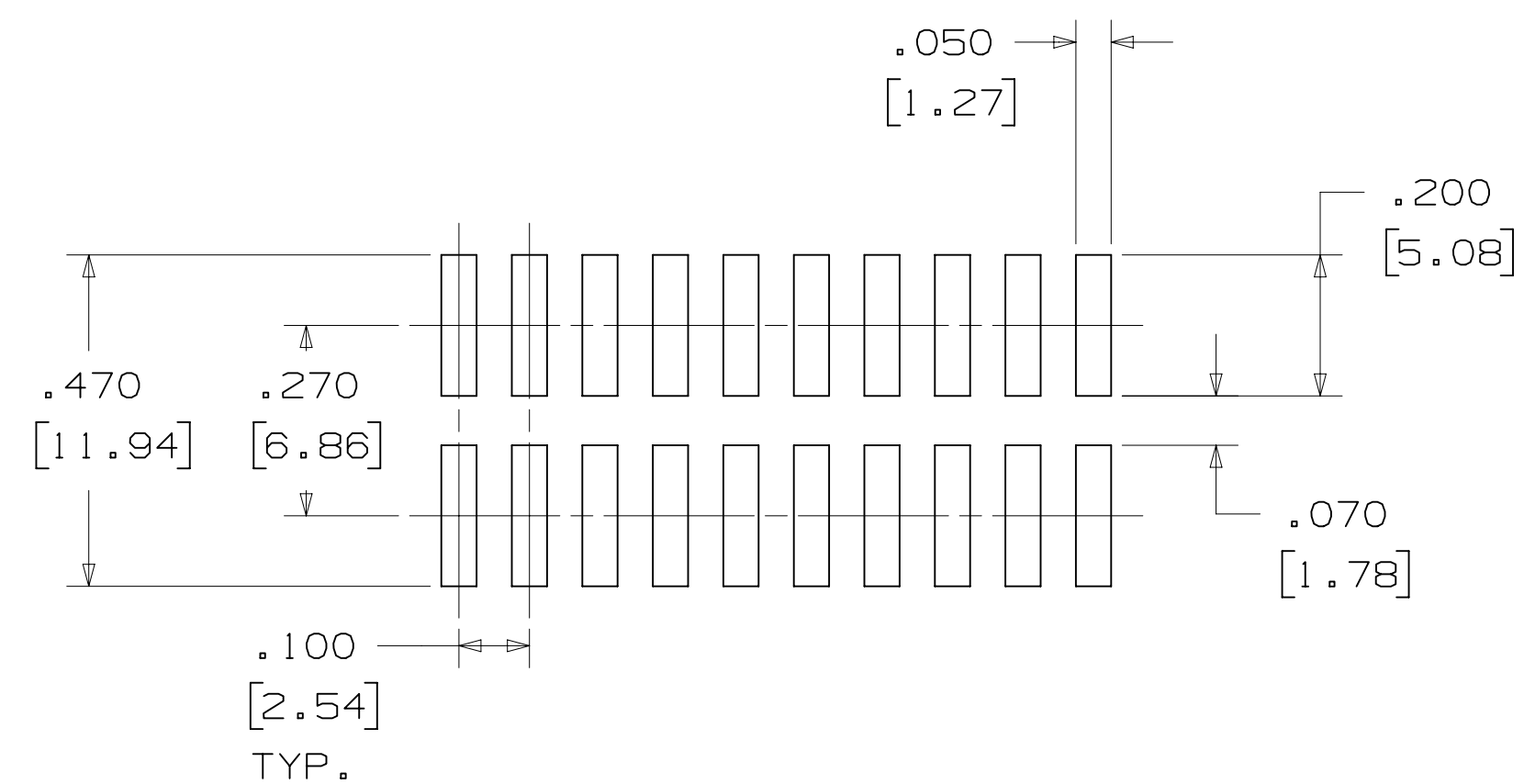
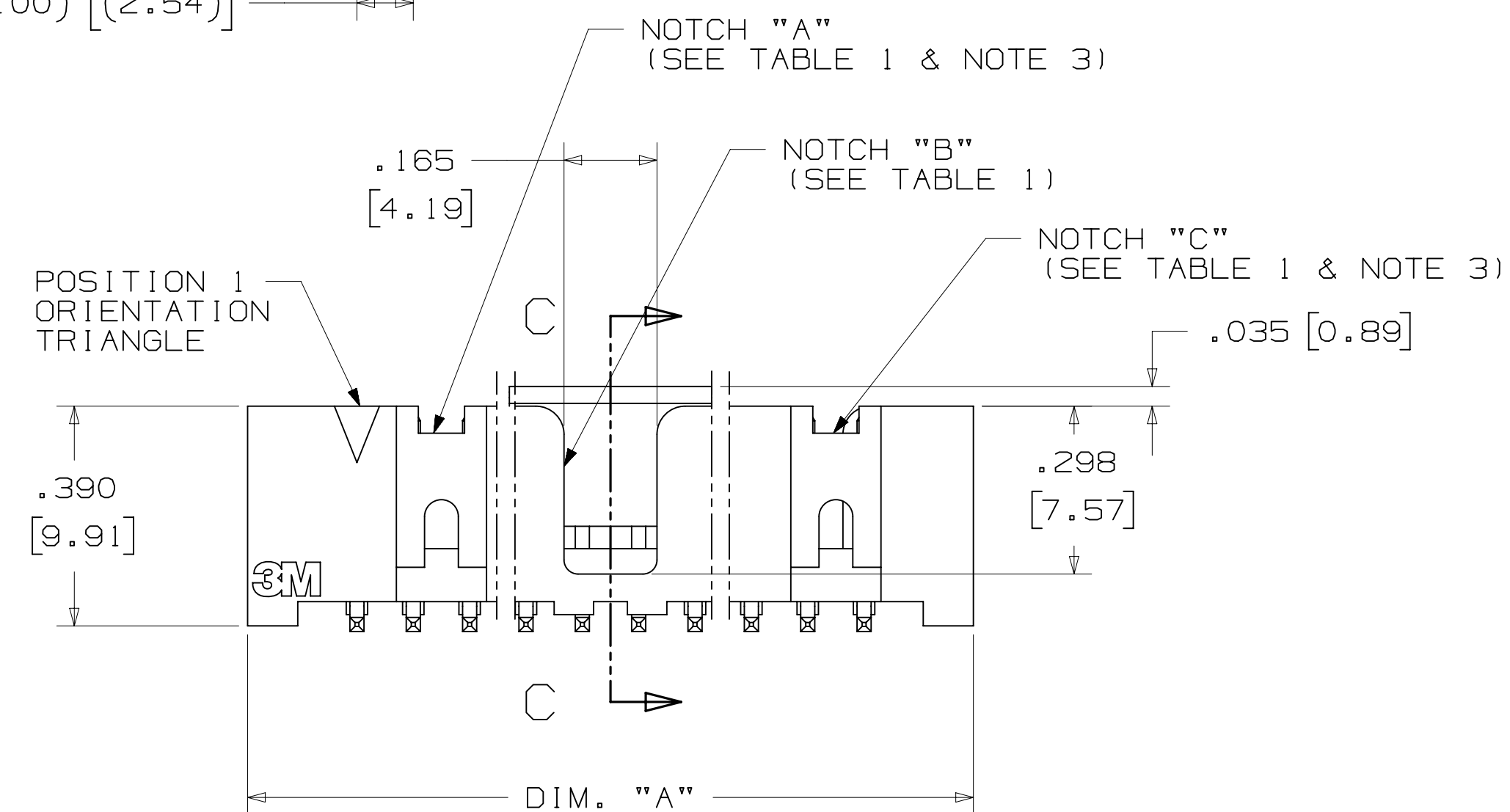
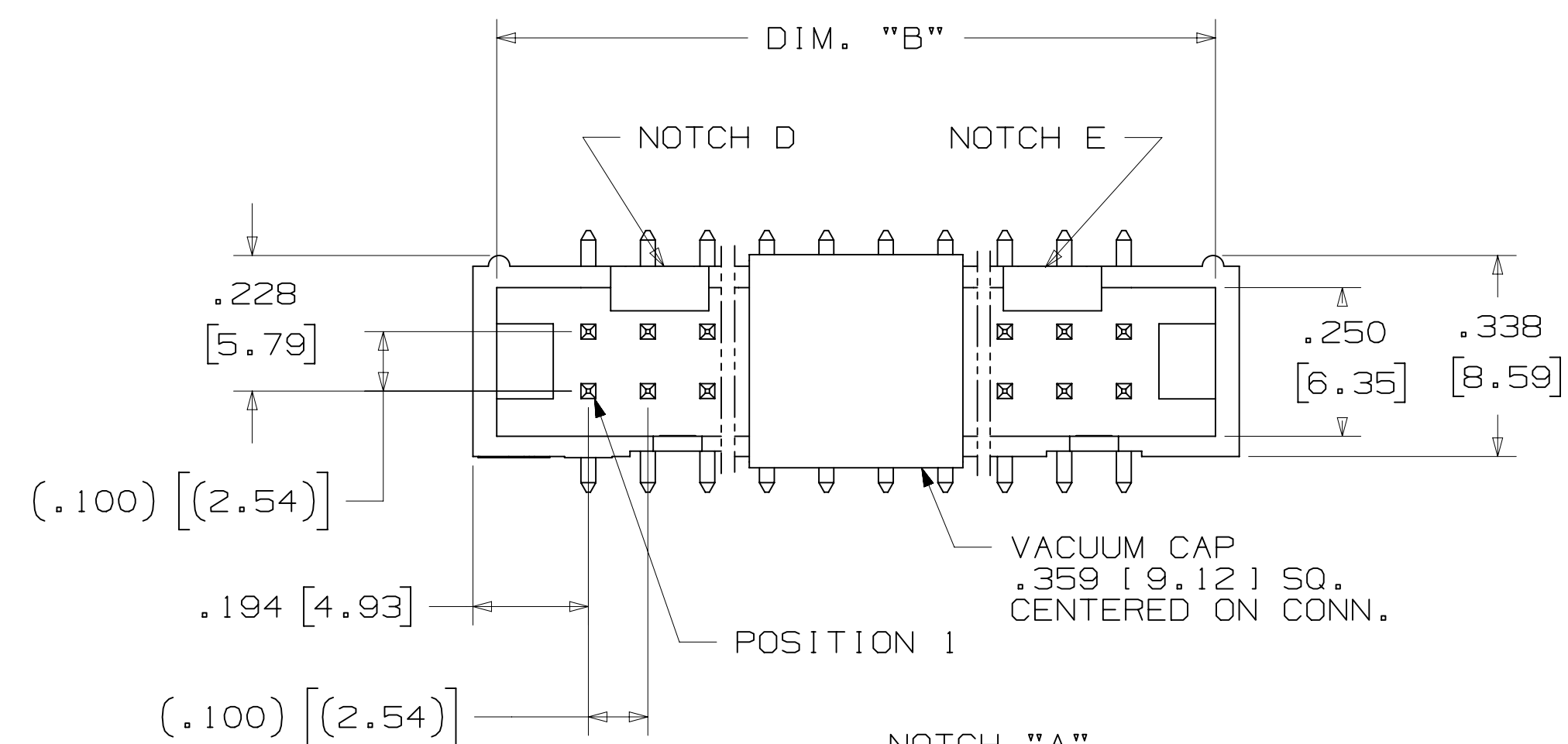
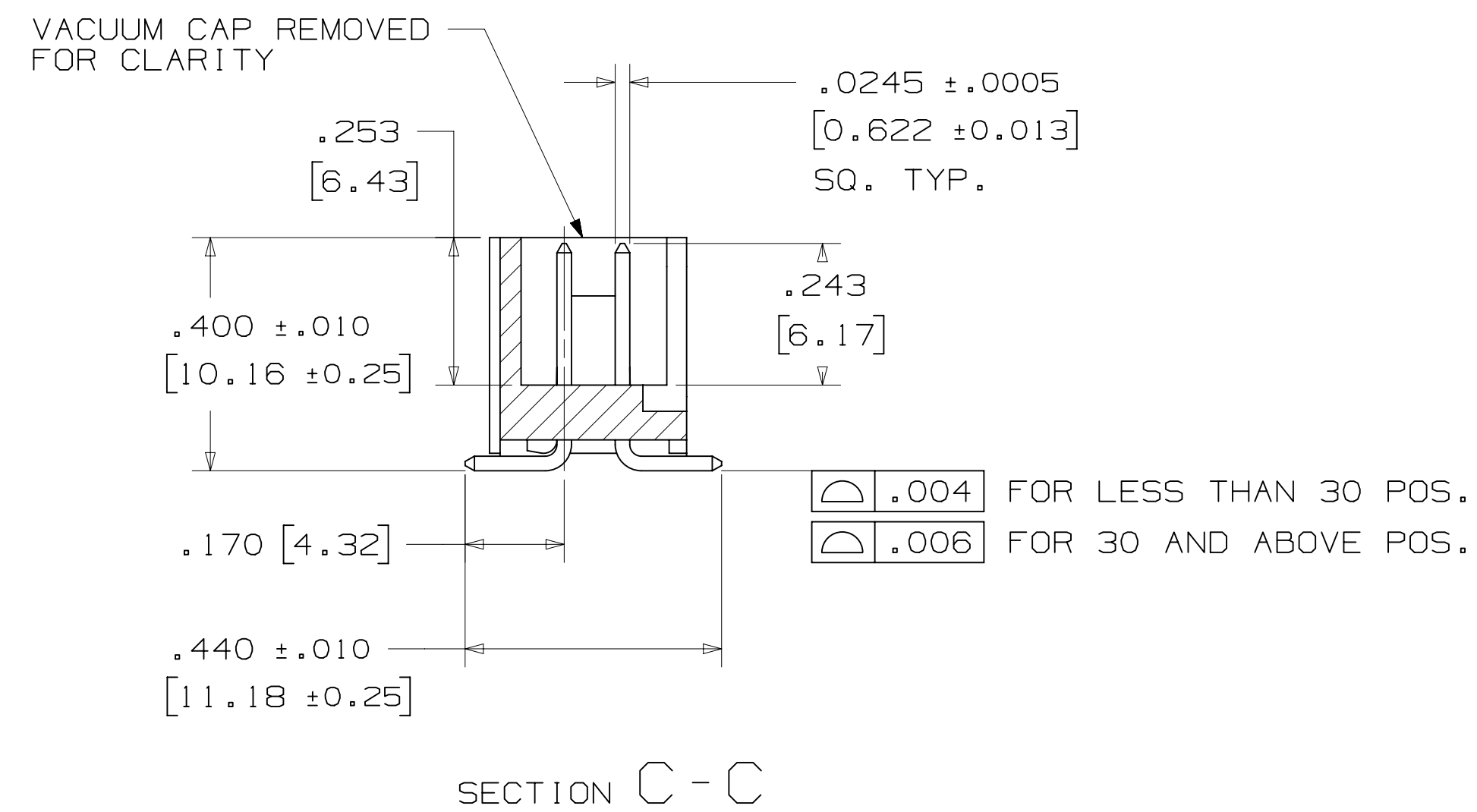


TABLE 1					
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	TAPE AND REEL PKG CODE	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	WD (44 MM)	06
08	.688 [17.48]	.608 [15.44]	B	WD (44 MM)	08
10	.788 [20.02]	.708 [17.98]	BC	WD (44 MM)	10
14	.988 [25.10]	.908 [23.06]	BCDE	WD (44 MM)	14
16	1.088 [27.64]	1.008 [25.60]	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

N25XX - 6V0C - XX - XX

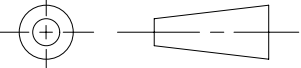
N = HIGH TEMP BLACK (PCT)
(RB PLATING REQ'D)

PIN QUANTITY:
(SEE TABLE 1)

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

- PLATING:
RB = 30 μ " [0.76 μ m] AVG. GOLD
200 μ " [5.08 μ m] MATTE TIN (RIA, E1 & C1 APPLY)

RECOMMENDED PAD LAYOUT

DESIGN REFERENCE		NEXT ASSEMBLY		M 56088		AUG 11, 2014		JNC		RS	
REV ECO				ISSUE DATE AND DESCRIPTION				DRFT		CHKD	
MFG CODES				DATE AUG 11, 2014				MFG		DATE	
CHKD				DATE				APPR. R. SCHERER		DATE SEP 05, 2014	
DIVISION Interconnect Solutions				DIVISION CODE EMSD				 © 3M COPYRIGHT 2015 This document and the information it contains on 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed otherwise for 3M authorized purposes. All rights reserved.			
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED							
				INCHES .01 ± .00 ± .01 ± .005 .0000 ±		TITLE HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA					
THIRD ANGLE PROJECTION				MILLIMETERS 0 ± .0 ± .3 .00 ± .13 .000 ±		CASE NUMBER SIZE DRAWING NO. D78-5100-0770-7				REV. M	
MAX. SURFACE ROUGHNESS  SURFACES ☒ MARKED ONLY				ANGLES		MODEL 3000 SERIES				DET. LISTS ☒ YES ☒ NO SHT 4 OF 5	

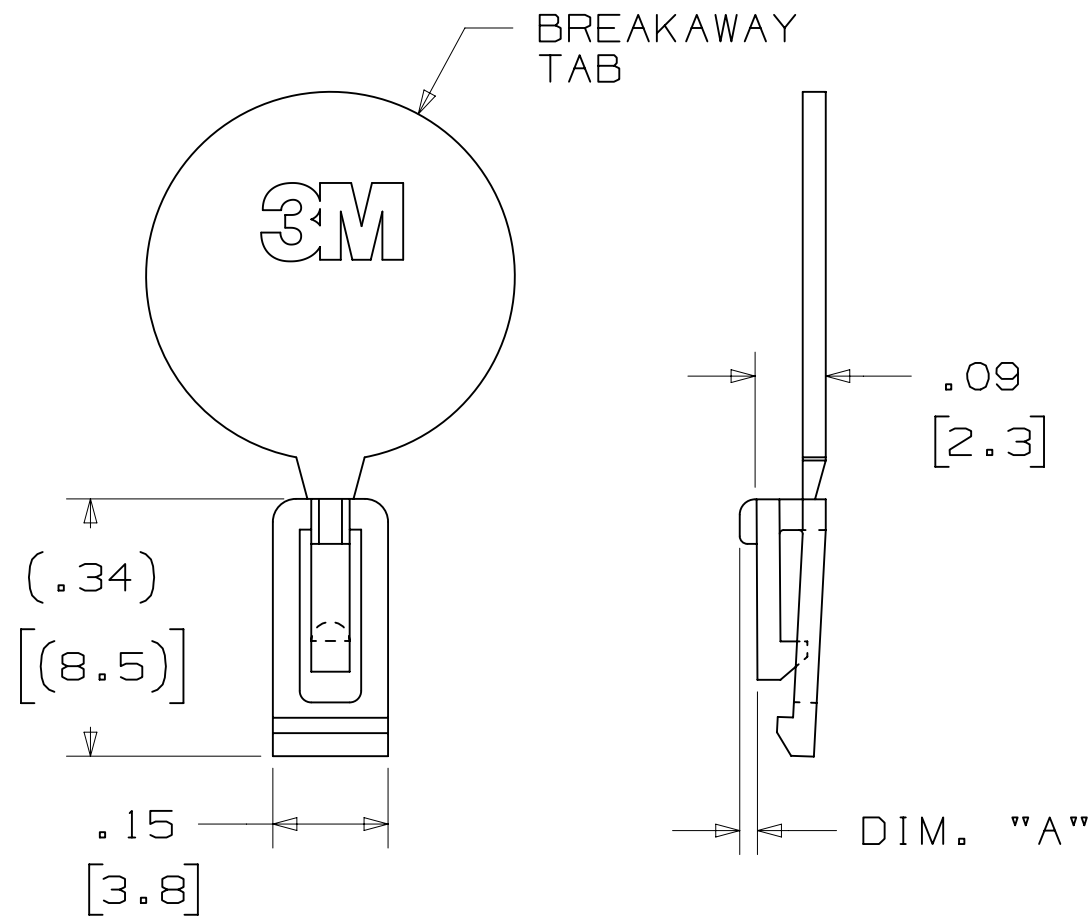
PART CUSTOMIZATION

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.

- * SELECTIVE PIN REMOVAL (FOR BOARD ASSEMBLY POLARIZATION).
- * DIFFERENT PIN LENGTHS.

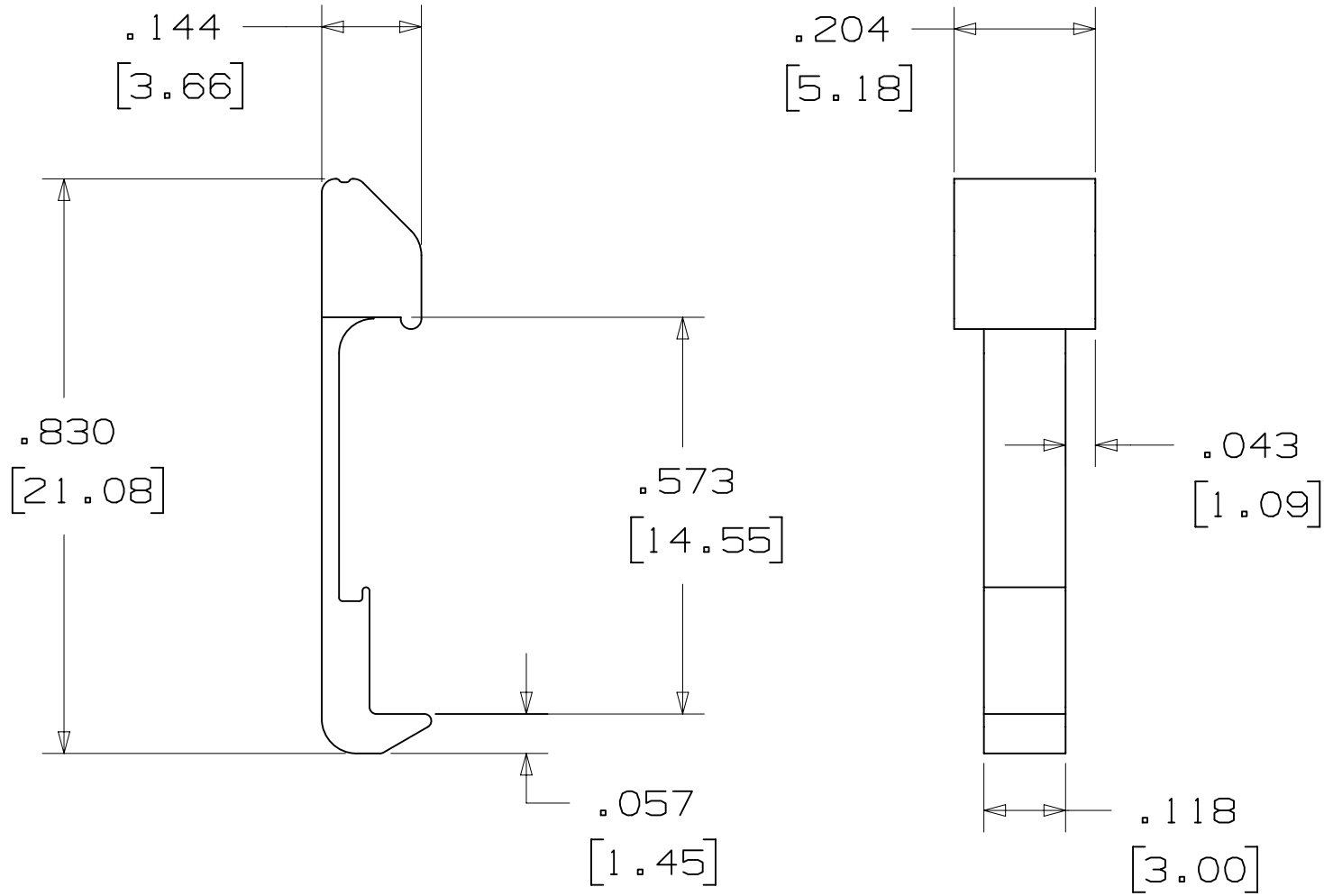
POLARIZING KEY



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

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

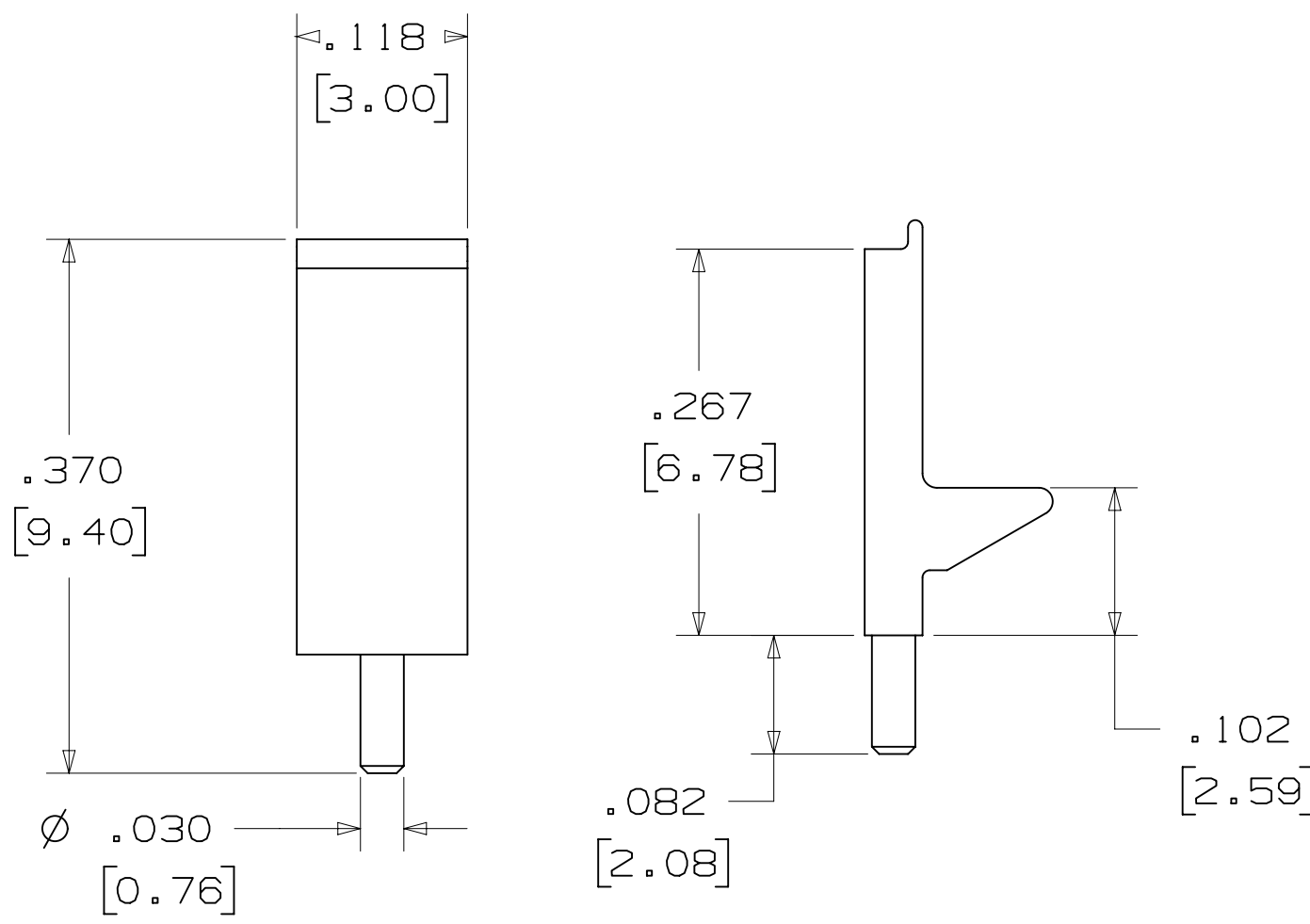
LOW PROFILE LATCH



PART NO.	MATERIAL	COLOR
3505-33B	NYLON	BLACK

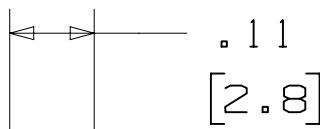
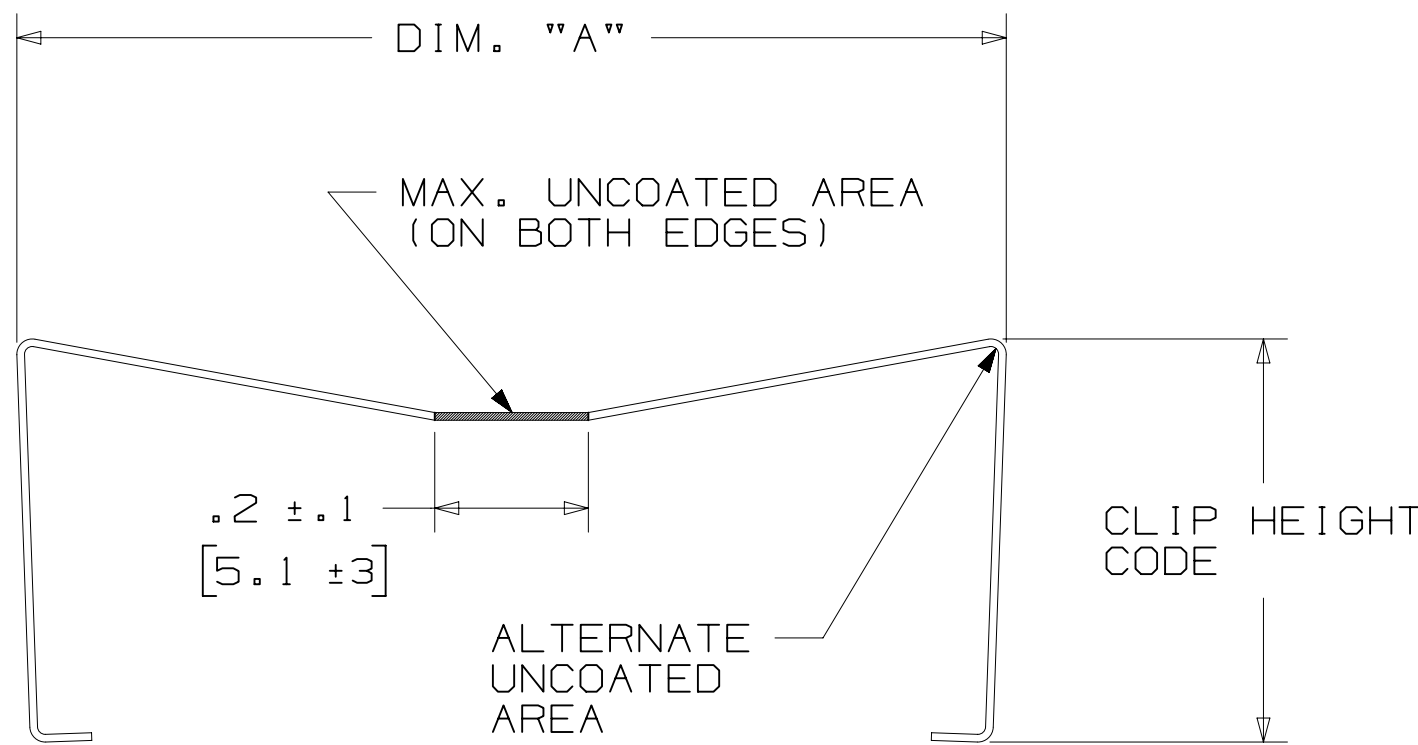
NOTE:
LATCHES NOT COMPATIBLE WITH REFLOW SOLDERING.
ATTACH LATCHES AFTER SOLDERING.

POLARIZING POST



PART NO.	MATERIAL	COLOR
3201-3	PCT	BLACK

SHORT/LONG SOCKET RETAINER CLIP



PIN QTY.	DIM. "A"
06	N/A
08	N/A
10	.81 [20.6]
14	1.02 [25.9]
16	1.12 [28.4]
20	1.32 [33.5]
24	1.52 [38.7]
26	1.63 [41.4]
30	1.83 [46.4]
34	2.03 [51.6]
36	N/A
40	2.33 [59.2]
50	2.83 [71.9]
60	3.33 [84.6]
64	3.53 [89.7]

NOTE:
STAINLESS STEEL WITH GRAY POLYURETHANE COATING.

3505-8XXX
CLIP HEIGHT CODE — PIN COUNT (SEE TABLE)
0 = .31 [7.9] FOR SOCKETS WITHOUT STRAIN RELIEF
1 = .53 [13.5] FOR SOCKETS WITH STRAIN RELIEF

DESIGN REFERENCE		NEXT ASSEMBLY		M 56068		AUG 11, 2014		JNC		RS	
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD			
CSTIGLIONE		AUG 11, 2014		MFG		DATE					
CHKD		R. SCHERER		DATE		SEP 05, 2014					
DIVISION		INTERconnect Solutions		DIVISION CODE		EMSD					
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED							
THIRD ANGLE PROJECTION				INCHES		.00 ± .01					
INTERPRET PER ASME Y14.5 - 2009				MILLIMETERS		0 ± .13					
MAX SURFACE ROUGHNESS				SURFACES		.000 ± .000					
MARKED ONLY				ANGLES							
CAGE NUMBER		D 78-5100-0770-7		SIZE		M					
MODEL		3000 SERIES		DET		YES		NO		SHT 5 OF 5	