

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

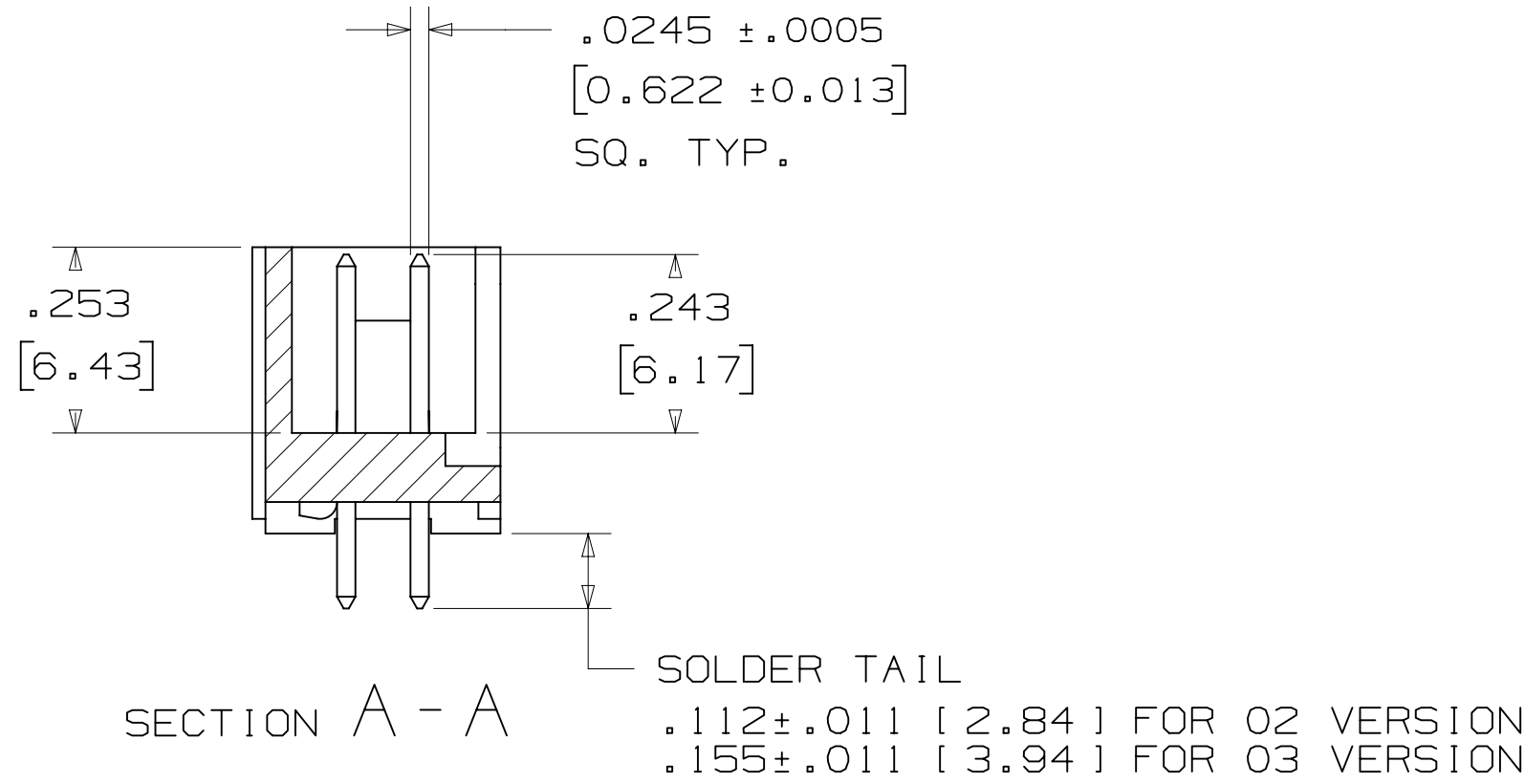
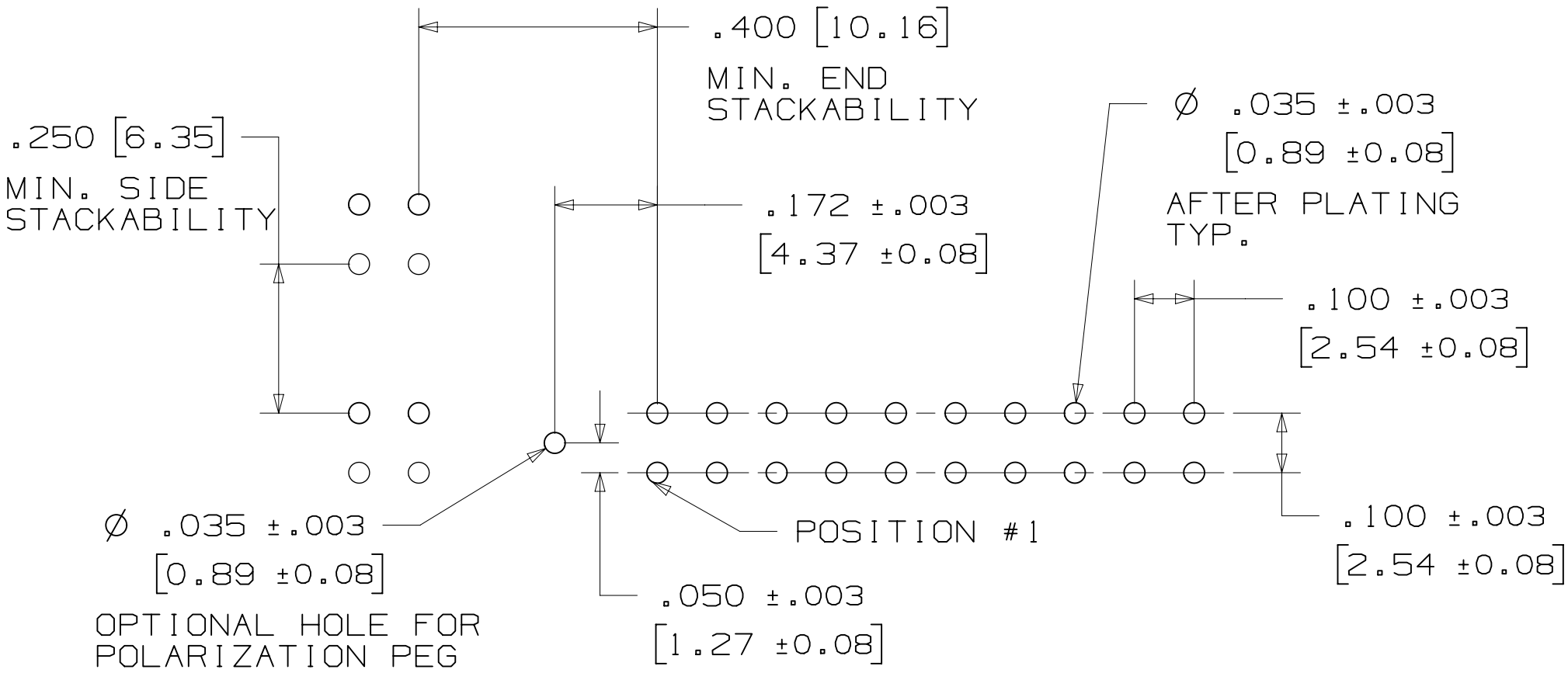
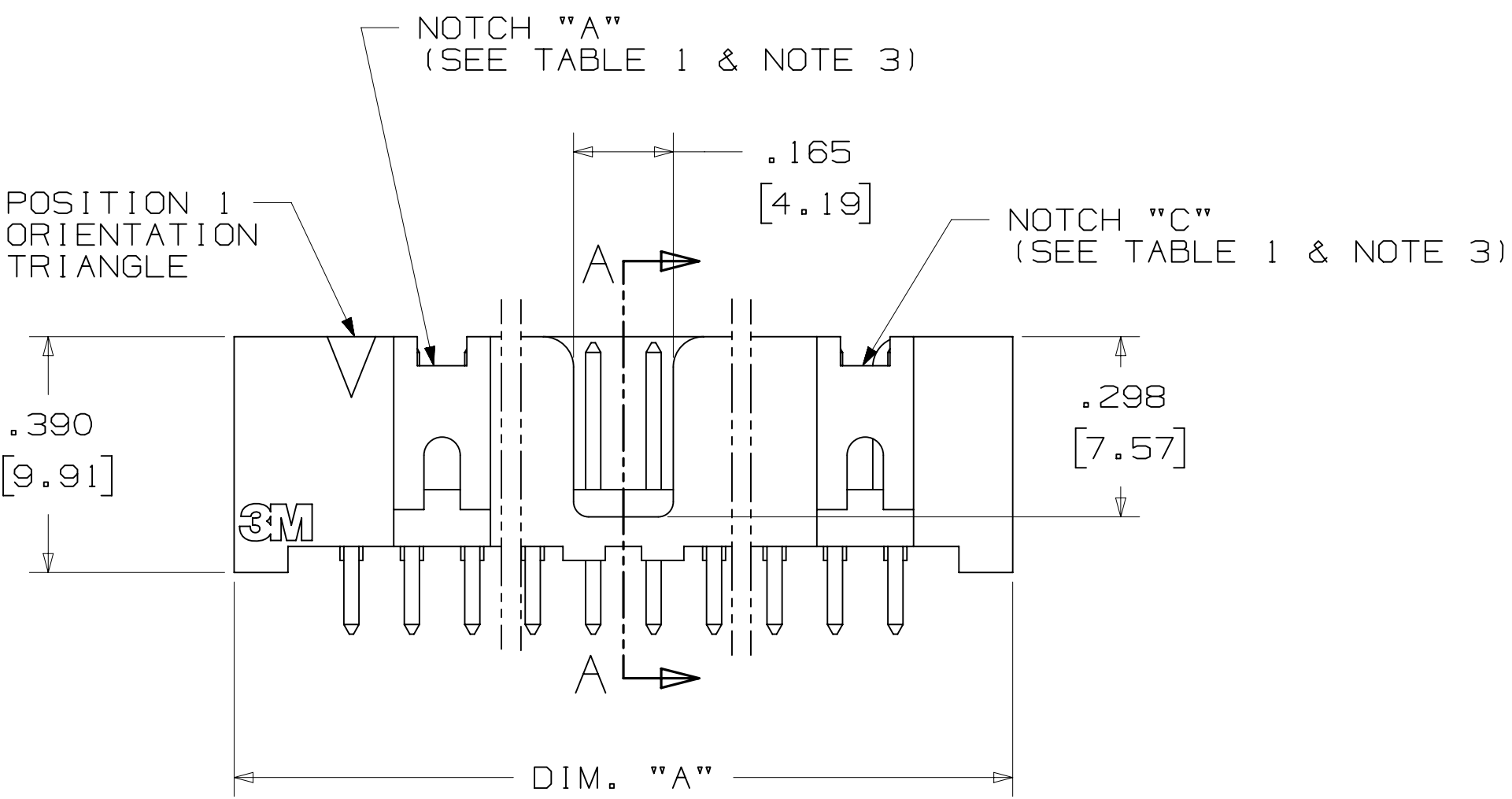
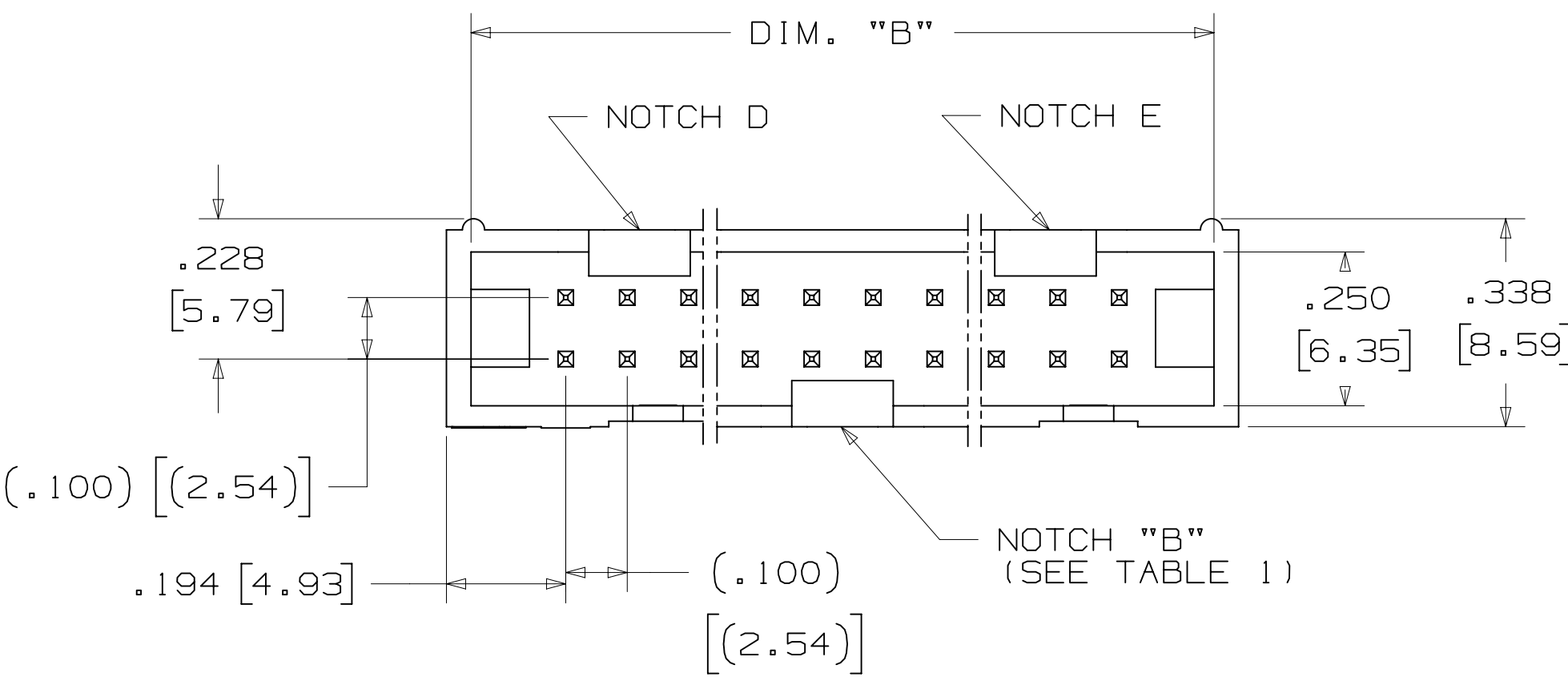


TABLE 1				
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	06
08	.688 [17.48]	.608 [15.44]	B	08
10	.788 [20.02]	.708 [17.98]	BC	10
14	.988 [25.10]	.908 [23.06]	BCDE	14
16	1.088 [27.64]	1.008 [25.60]	ABCDE	16
20	1.288 [32.72]	1.208 [30.68]	ABCDE	20
24	1.488 [37.80]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

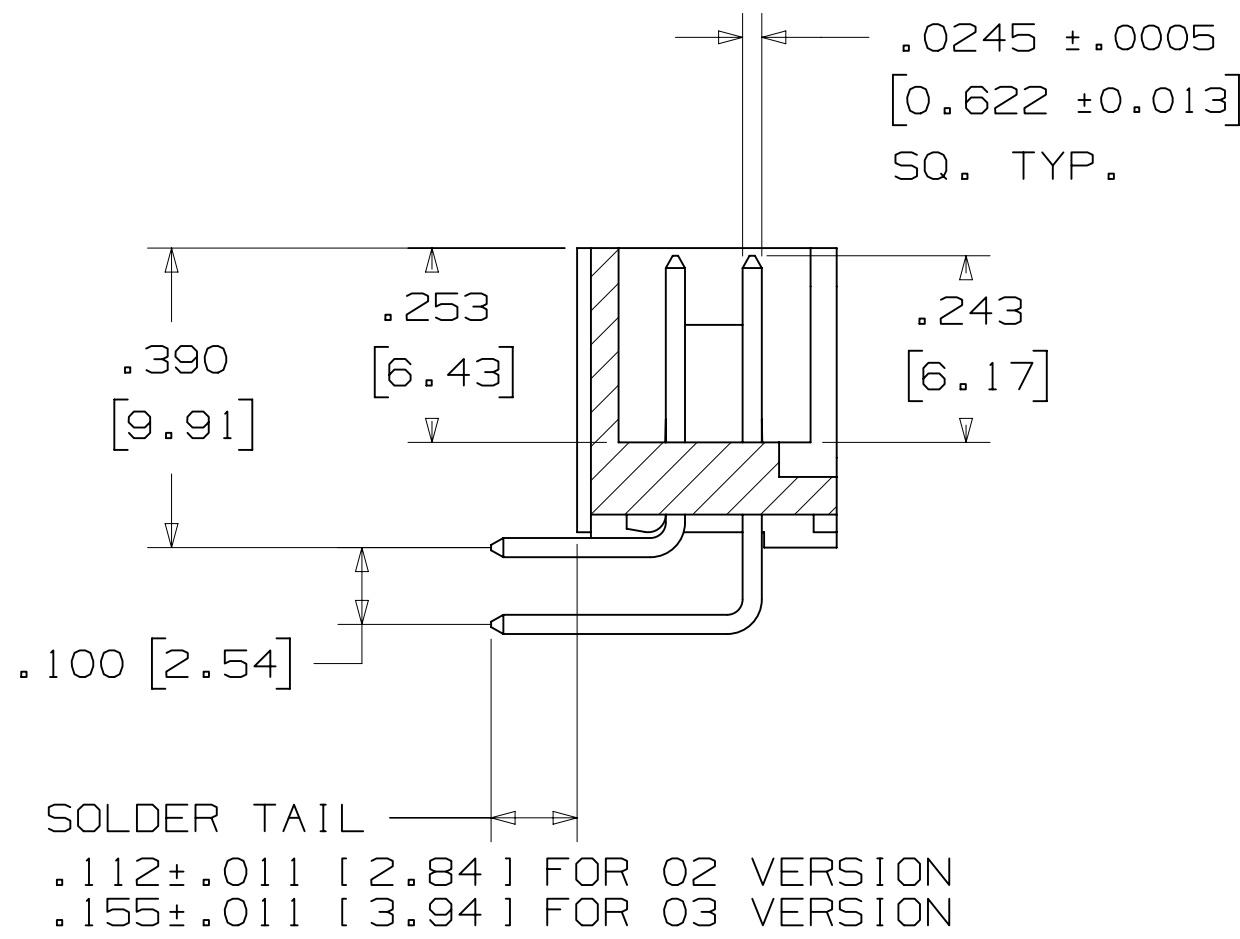
N= HIGH TEMP BLACK (PCT)
(RB, UB OR UG PLATING REQ'D)
BLANK= (UB OR UG PLATING)
PIN QUANTITY:
(SEE TABLE 1)
SOLDER TAIL:
02 = FOR .062 [1.57] THICK BOARD
03 = FOR .094 TO .125 [2.39 TO 3.18]
THICK BOARD

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	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
Header CODES		CHKD	CASTIGLIONE	DATE AUG 11, 2014	DATE	
DIVISION	DIVISION CODE	CHKD	DATE	DATE	DATE	DATE
Interconnect Solutions	EMSD					
DO NOT SCALE DRAWING	SCALE 4/1					
THIRD ANGLE PROJECTION	TOLERANCES EXCEPT AS NOTED					
INTERPRET PER ASME Y14.5 - 2009	INCHES .00 ±.01 .000 ±.005 .0000 ±					
MAX SURFACE ROUGHNESS	MILLIMETERS 0 ±.00 ±.03 .000 ±.013 .000 ±					
MARKED ONLY	ANGLES					
TITLE		CAGE NUMBER		DRAWING NO.		REV.
HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA		D78-5100-0770-7		2500 SERIES		N
MODEL		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



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

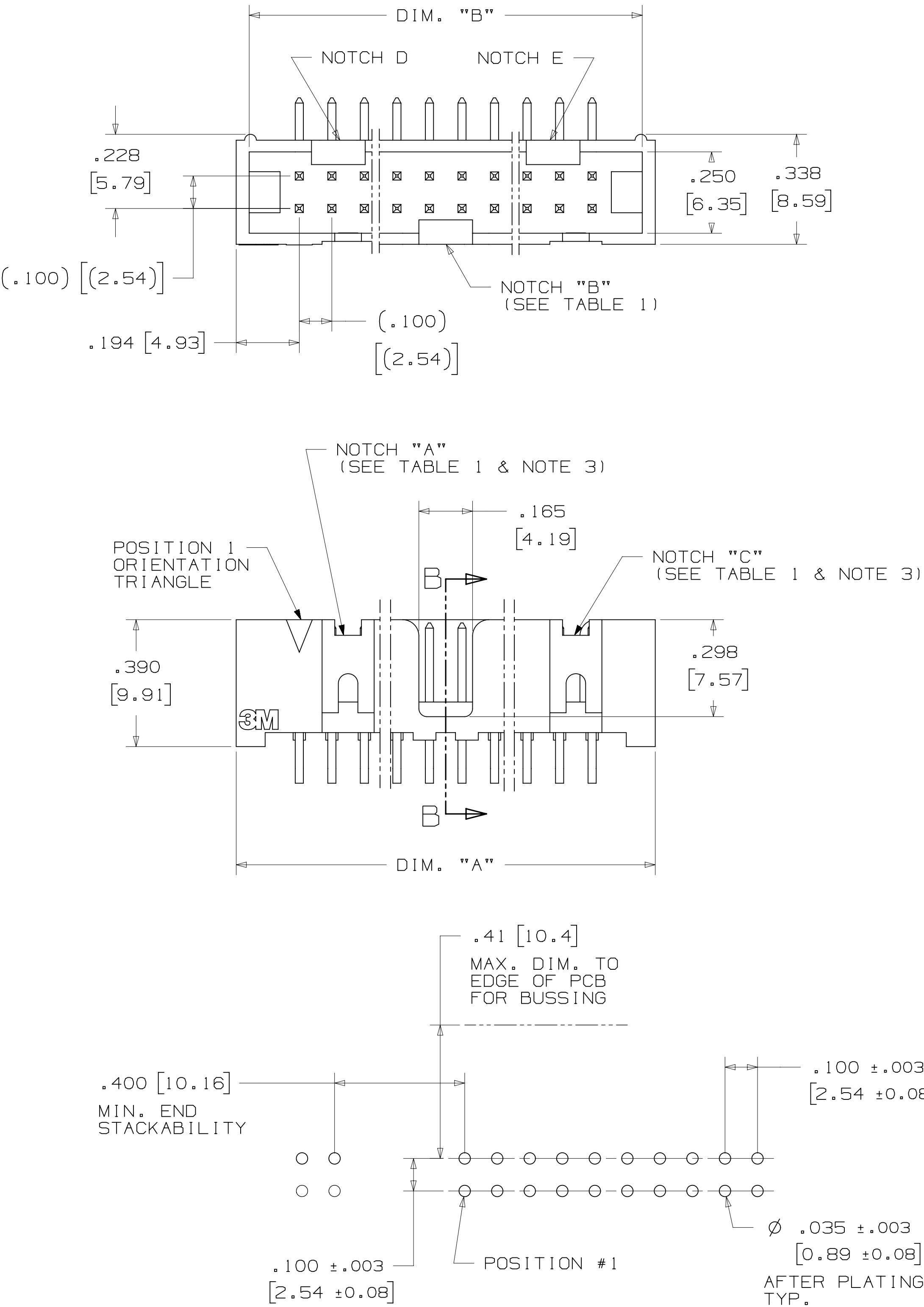
X25XX-50XX-XX

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	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
XXXX	XXXX	CASTIGLIONE	AUG 11, 2014	MFG	DATE	DATE
DIVISION	DIVISION CODE	CHKD	DATE	APPR	DATE	DATE
Interconnect Solutions	EMSD			R. SCHERER	SEP 05, 2014	
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION		INCHES .00 ±.01 .000 ±.005 .0000 ±				
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS 0 ± .0 ±.3 .00 ±.13 .000 ±				
MAX SURFACE ROUGHNESS		INCHES .00 ±.01 .000 ±.005 .000 ±				
MARKED ONLY		ANGLES				

N	68908	AUG 02, 2016	JNC	SC
M	56068	AUG 11, 2014	JNC	RS
REVISED AND REDRAWN		DATE		DATE
AUG 11, 2014		SEP 05, 2014		

3M Center St. Paul, MN 55144

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

CAGE NUMBER: D78-5100-0770-7

SIZE: 1

DRAWING NO.: 78-5100-0770-7

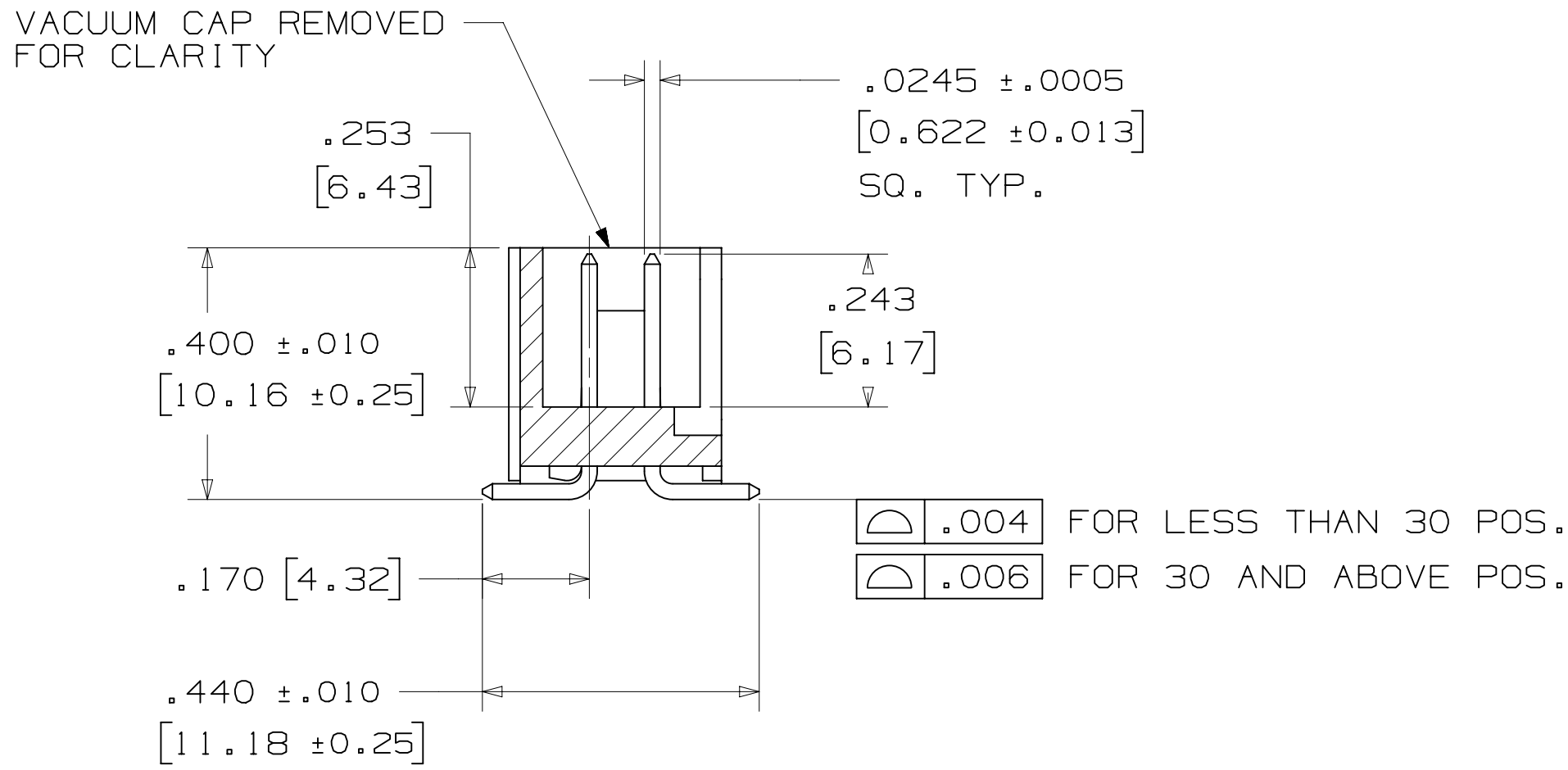
REV. N

MODEL: 2500 SERIES

DET: [] YES [X] NO

SHT 3 OF 5

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



SECTION C - C

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

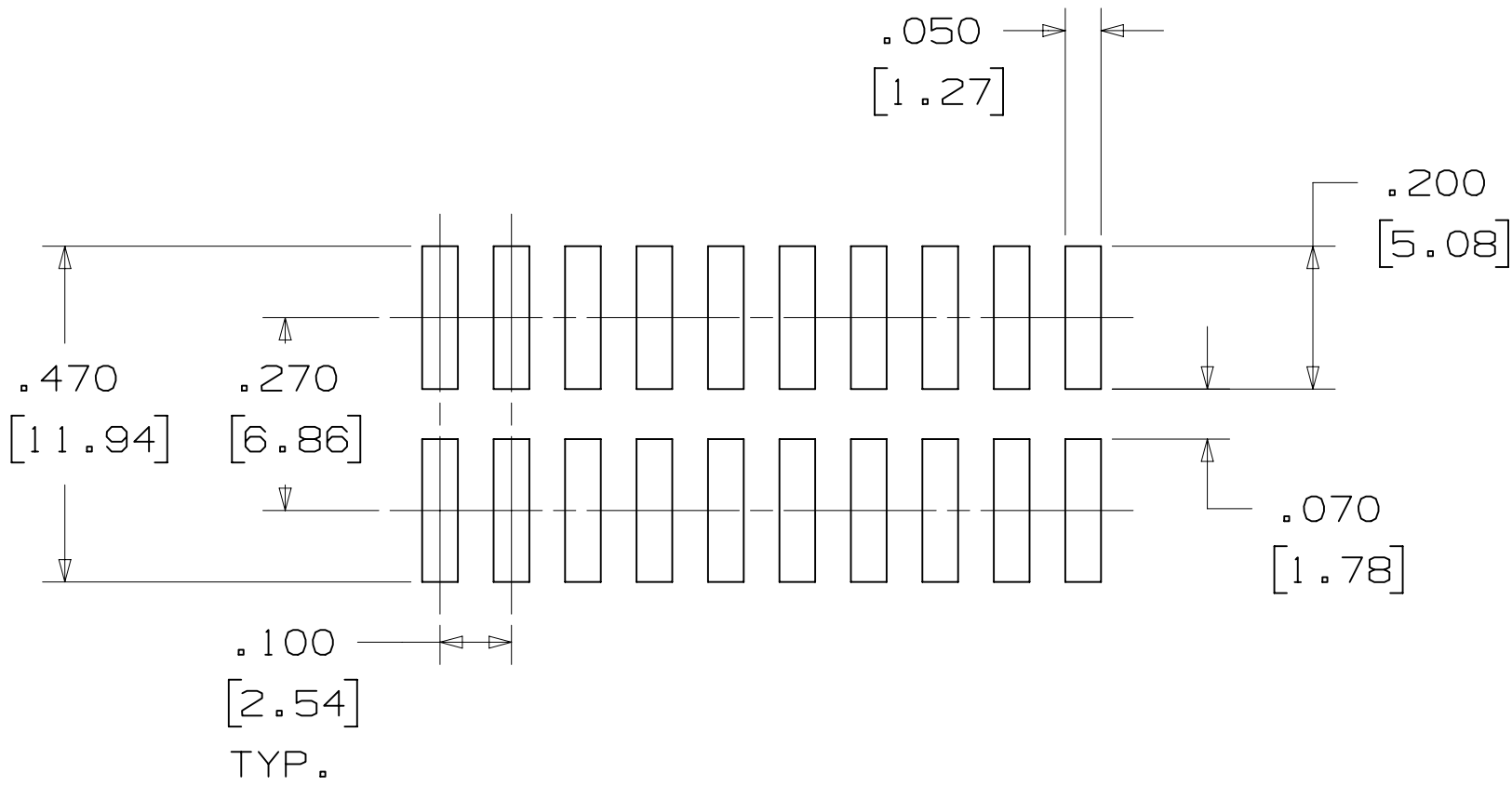
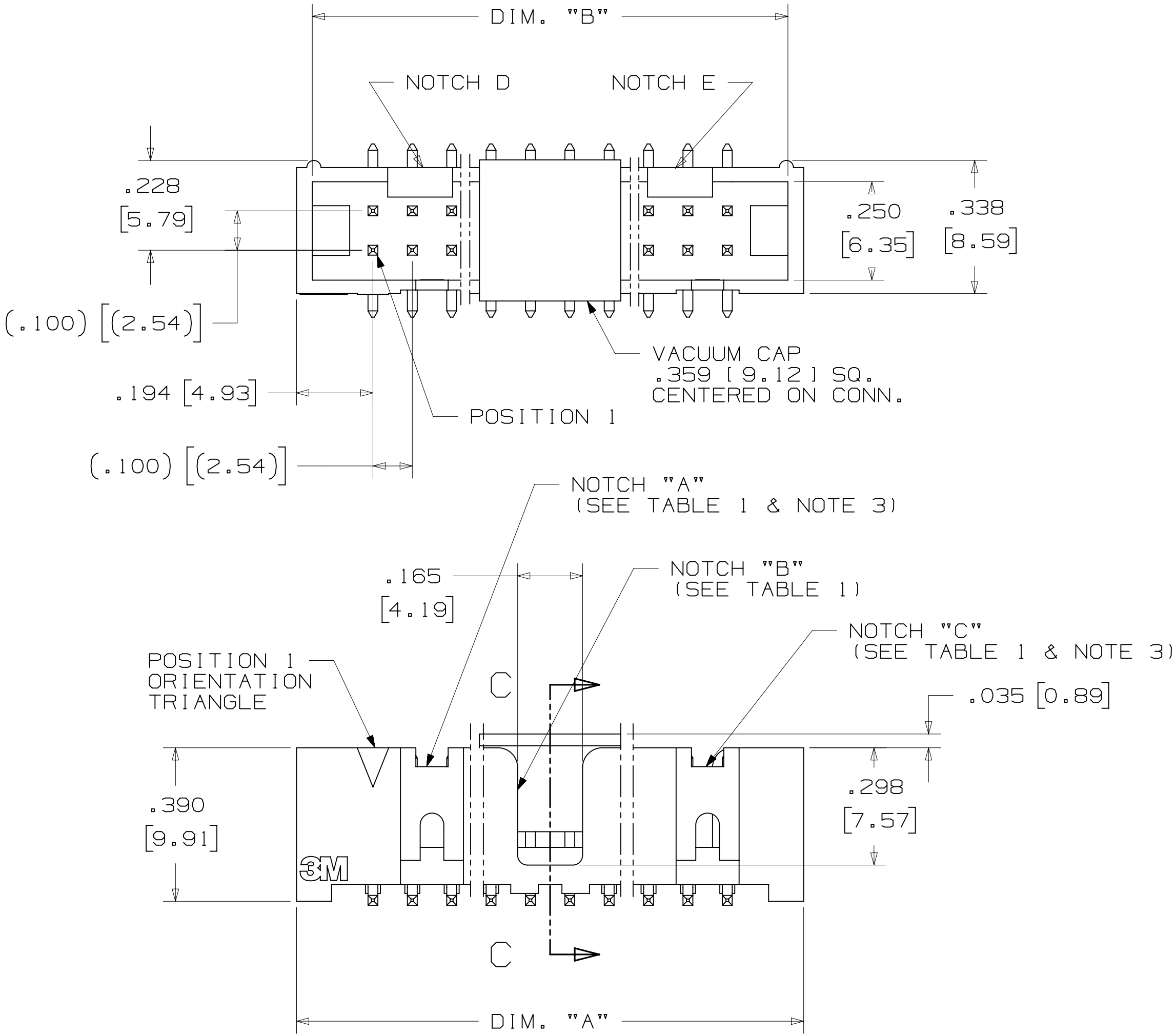
N25XX-6VOC-XX-XX

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 = 30µ" [0.76µm] AVG. GOLD
200µ" [5.08µm] MATTE TIN (RIA, E1 & C1 APPLY)



RECOMMENDED PAD LAYOUT

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED	INCHES .00 ±.01 .000 ±.005 .0000 ±.0000	MILLIMETERS 0 ±.3 .00 ±.13 .000 ±.000	INTERPRET PER ASME Y14.5 - 2009	MAX SURFACE ROUGHNESS 12.5 SURFACES MARKED ONLY
3M Center St. Paul, MN 55144	© 3M COPYRIGHT 2016	3M	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.	TITLE	HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA
CAGE NUMBER	SIZE	DRAWING NO.	REV.	DET	YES	NO
D	78-5100-0770-7	N	SHT 4 OF 5			

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

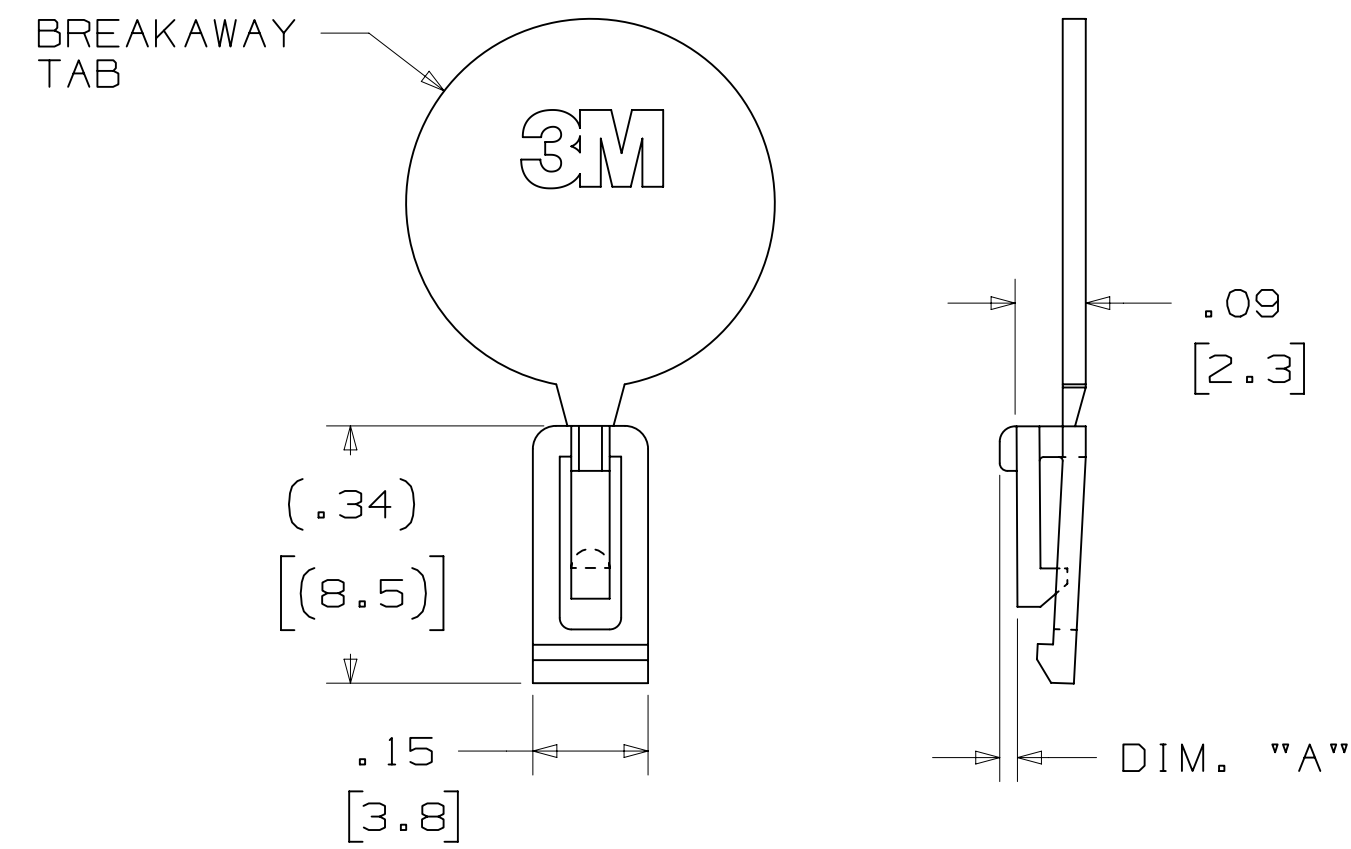
PART CUSTOMIZATION

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.

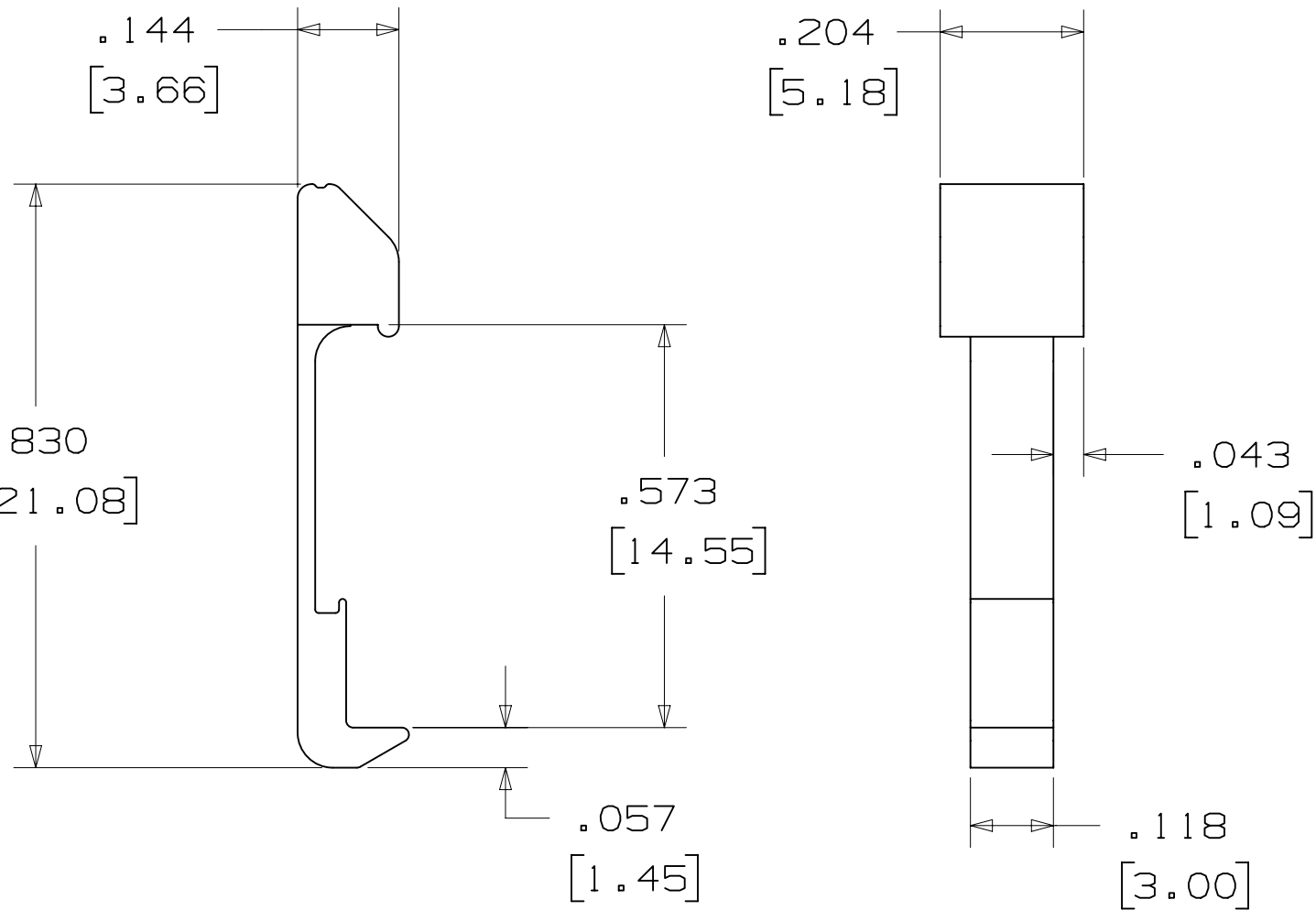
POLARIZING KEY



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

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

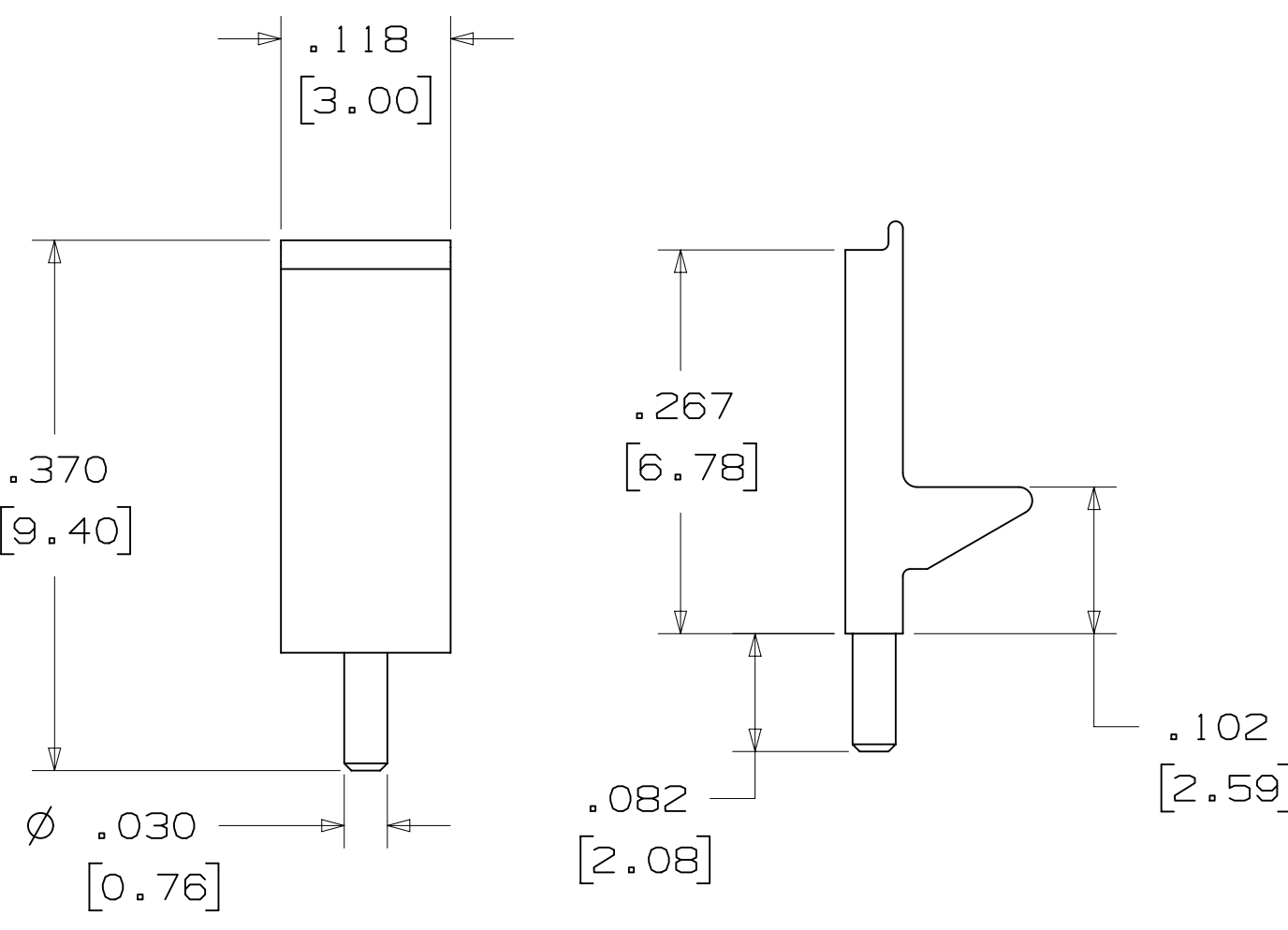
LOW PROFILE LATCH



PART NO.	MATERIAL	COLOR
3505-33B	NYLON	BLACK

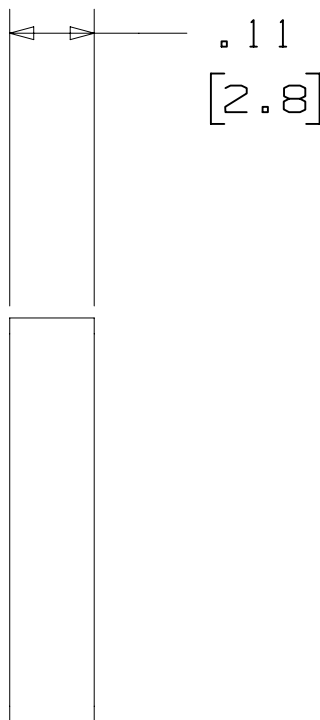
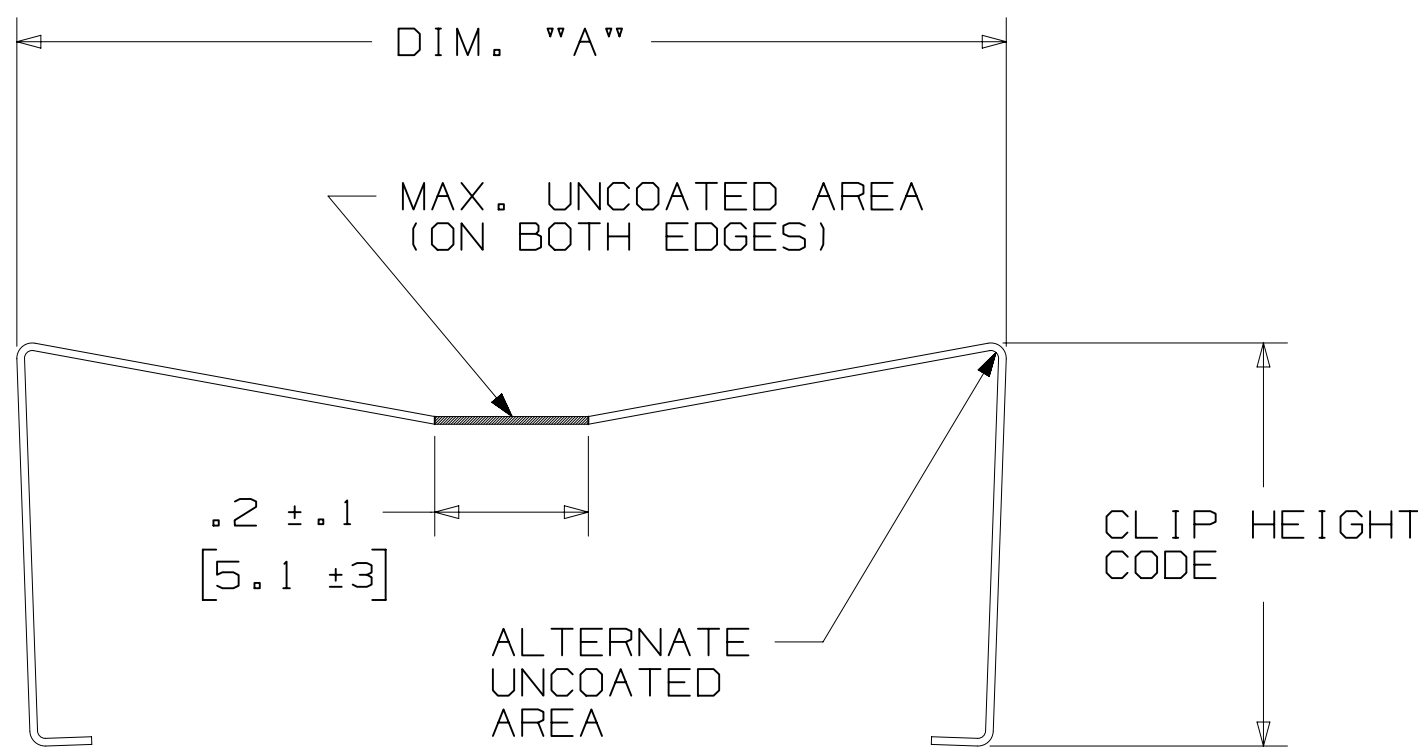
NOTE:
LATCHES NOT COMPATIBLE WITH REFLOW SOLDERING.
ATTACH LATCHES AFTER SOLDERING.

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

NOTE:
1) THE FOLLOWING RETAINER CLIPS HAVE BEEN DISCONTINUED:
3505-8064
3505-8124
3505-8150

		N		68068		AUG 02, 2016		JNC		SC	
		M		56068		AUG 11, 2014		JNC		RS	
						REVISED AND REDRAWN					
DESIGN REFERENCE				NEXT ASSEMBLY				REV		ECO	
ACORN CODES				DRFT				CASTIGLIONE		DATE	
				DATE				AUG 11, 2014		MFG	
				DATE						DATE	
				APPR				R. SCHERER		DATE	
										SEP 05, 2014	
DIVISION		INTERCONNECT SOLUTIONS		DIVISION CODE		EMSD					
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED							
		4		1							
		THIRD ANGLE PROJECTION		INCHES							
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		.00							
MAX SURFACE ROUGHNESS		.00		.01							
.0000		.0005									
.0000											
✓		□ MARKED ONLY		ANGLES							
				</							

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

3M:

[2534-6003UB](#) [2520-5003UG](#) [2526-5003UB](#) [2540-60K2UG](#) [2560-5003UB](#) [2564-6003UB](#) [3505-8060](#) [3505-8064](#)
[3505-8130](#) [3505-8150](#) [N2520-6003UB](#) [3505-8024](#) [N2516-5002UB](#) [N2516-60K2UB](#) [N2520-6002UG](#) [N2520-60K2UG](#)
[N2526-7002UG](#) [N2530-6002UB](#) [N2534-5002UB](#) [N2534-6003UB](#) [N2540-6002UB](#) [N2550-5002UB](#) [N2550-6002UG](#)
[N2550-6003UB](#) [N2510-50K2RB](#) [N2510-5002UB](#) [N2510-5003RB](#) [N2510-60K2RB](#) [N2510-6002UB](#) [N2510-6002UG](#)
[N2510-6003RB](#) [N2510-7002UG](#) [N2510-7003UG](#) [N2514-5002UB](#) [N2514-5003RB](#) [N2514-6003RB](#) [N2516-50K2RB](#)
[N2516-5003RB](#) [N2516-6003RB](#) [N2520-50K2RB](#) [N2520-5003RB](#) [N2520-6003RB](#) [N2524-6002UB](#) [N2524-6003RB](#)
[N2526-50K2RB](#) [N2526-6002UB](#) [N2530-5003RB](#) [N2530-60K2RB](#) [N2530-6003RB](#) [N2530-6003UB](#) [N2534-5003RB](#)
[N2534-6002UB](#) [N2534-6003RB](#) [N2540-5002UB](#) [N2540-5003RB](#) [N2540-60K2RB](#) [N2540-6003RB](#) [N2540-7002UG](#)
[N2550-60K2RB](#) [N2550-6002UB](#) [N2550-6003RB](#) [N2564-60K2RB](#) [2540-60K2UB](#) [N3518](#) [N2530-50K2RB](#) [2540-](#)
[6002UG](#) [N2550-5002RB](#) [N2540-5002RB](#) [2560-6003UB](#) [N2560-6003RB](#) [2526-6003RB](#) [2516-6005EB](#) [N2520-](#)
[5003UB](#) [N2510-60K2-UB](#) [N2514-60K2-RB](#) [N2516-60K2-RB](#) [N2524-5002-UB](#) [N2524-5003-RB](#) [N2526-5003-RB](#)
[N2526-60K2-RB](#) [N2540-5003-UB](#) [N2550-50K2-RB](#) [N2520-60K2-RB](#) [N2516-6003-UG](#) [N2526-6002-UG](#) [N2536-5002-](#)
[RB](#) [N2510-5002-UG](#) [2510-60K2-UG](#) [N2516-6003-UB](#) [N2534-6002-UG](#) [N2530-6002RB](#) [N2526-5002RB](#) [2524-](#)
[6002UB](#) [N2510-6V0C-RB-WD](#) [N2514-6V0C-RB-WD](#) [N2516-6V0C-RB-WD](#) [N2520-6V0C-RB-WE](#) [N2524-6V0C-RB-](#)
[WE](#) [N2526-6V0C-RB-WF](#) [N2530-6V0C-RB-WF](#)