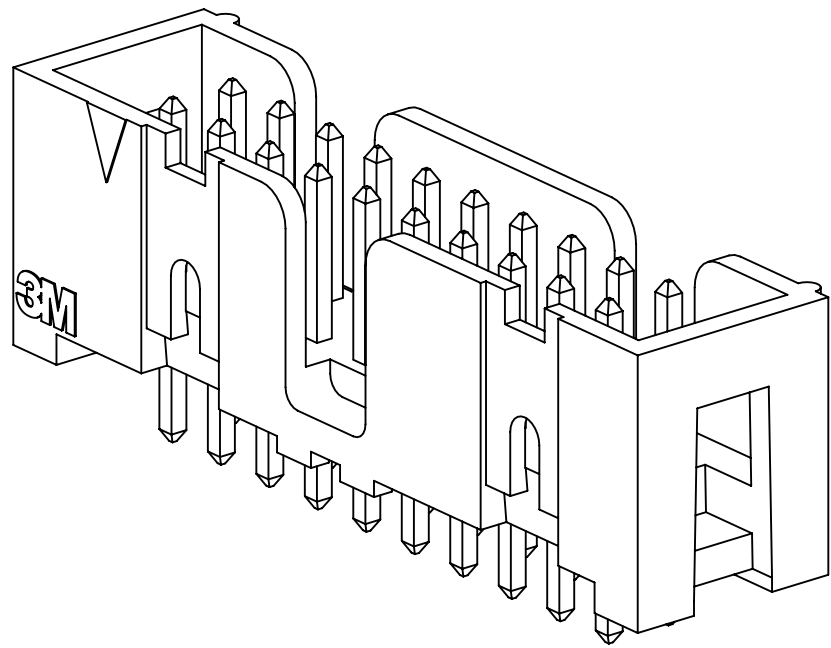


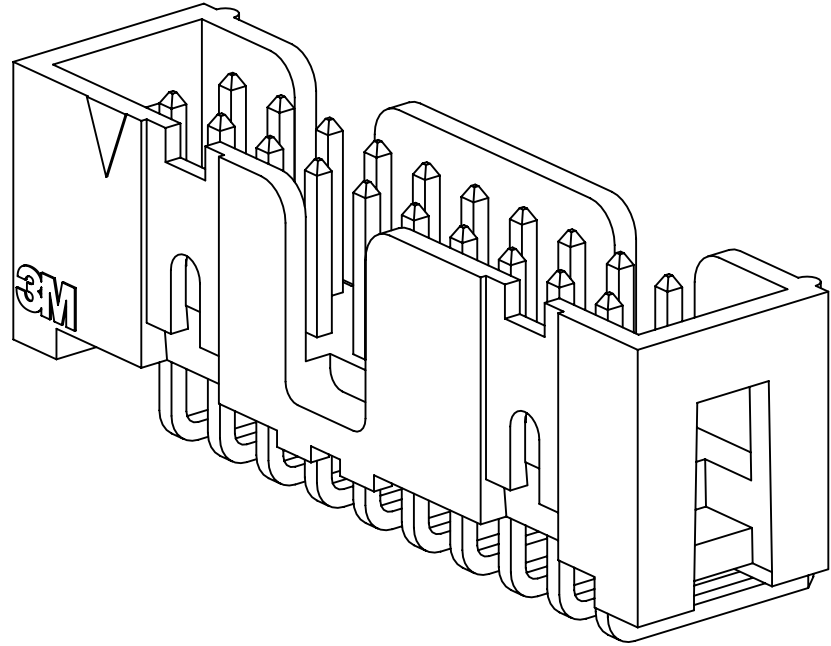
3M™ FOUR-WALL HEADER, 2500 SERIES

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



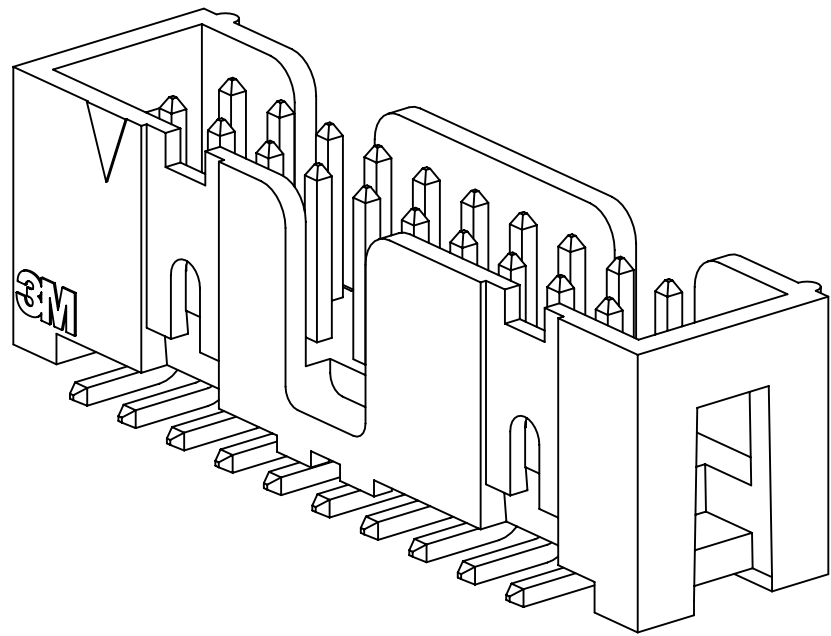
25XX-60XX

STRAIGHT VERSION



25XX-50XX

RIGHT ANGLE VERSION



25XX-6V0C

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: GLASS FILLED POLYESTER (PCT)
FLAMMABILITY: UL94V-0
COLOR: BLACK
CONTACT: MATERIAL: COPPER ALLOY
PLATING: UNDER PLATING: 100µ" (2.54µm) NICKEL-OVERALL
WIPING AREA: AVG. GOLD (SEE ORDERING INFORMATION)
SOLDER TAILS: 200µ" (5.08µm) 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 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 WIRE 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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UL **US**
UL FILE NO: E68080

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

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XREF CODES				DRP	CASTIGLIONE		DATE	MFG	DATE
				CHKD	AUG 11, 2014		DATE	R. SCHERER	SEP 05, 2014
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2016					
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DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		TITLE			
				INCHES		HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA			
				THIRD ANGLE PROJECTION		CAGE NUMBER			
				INTERPRET PER ASME Y14.5 - 2009		DRAWING NO.		REV.	
				MAX SURFACE ROUGHNESS		D78-5100-0770-7		N	
				MARKED ONLY		MODEL		DET	
						2500 SERIES		SHT 1 OF 5	

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

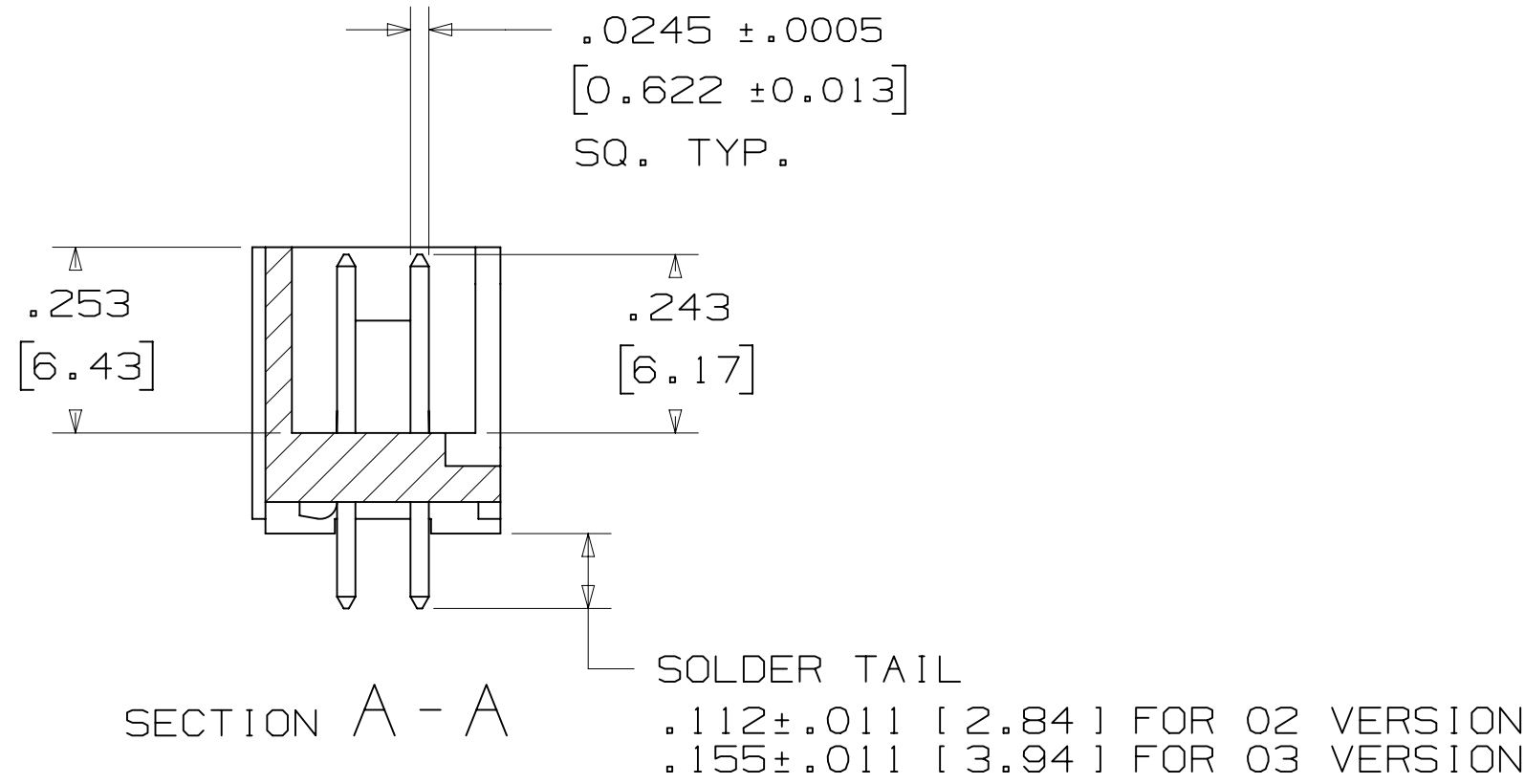
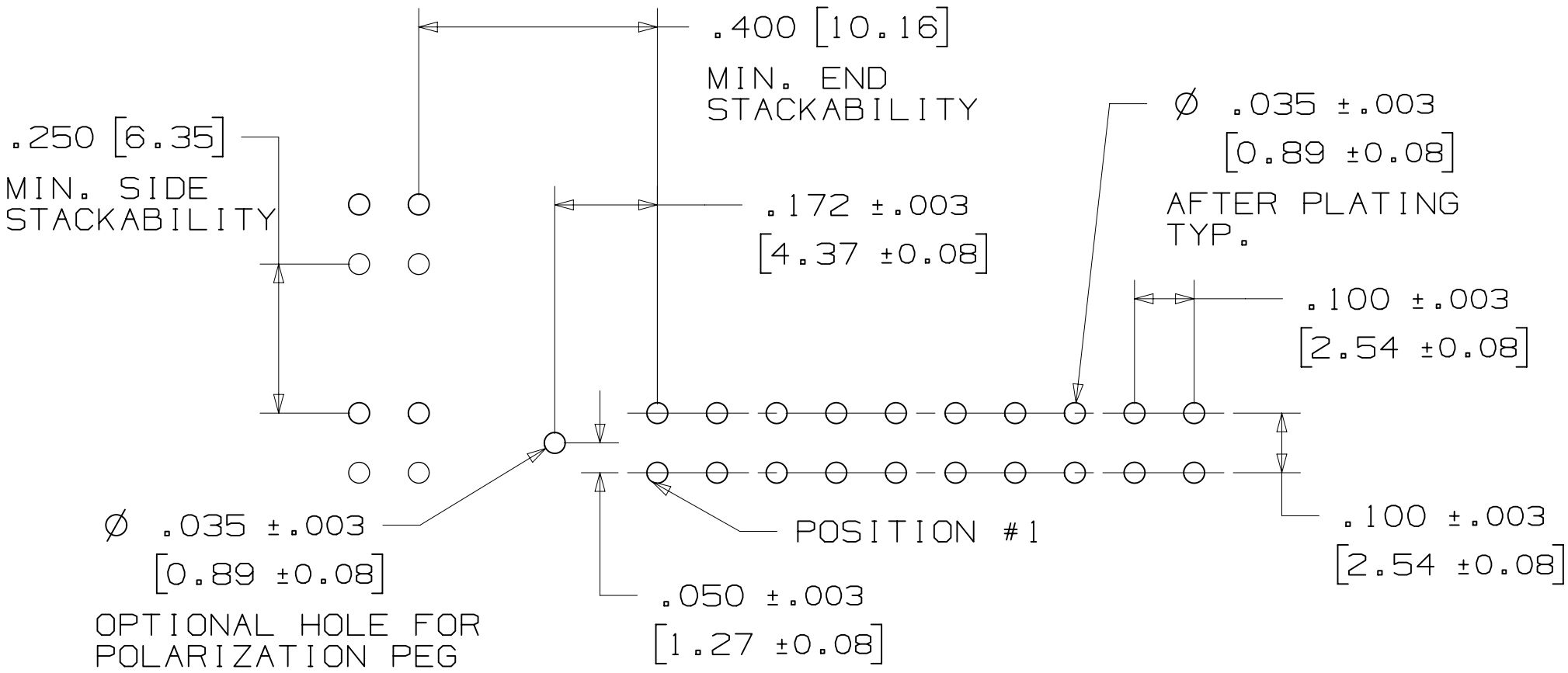
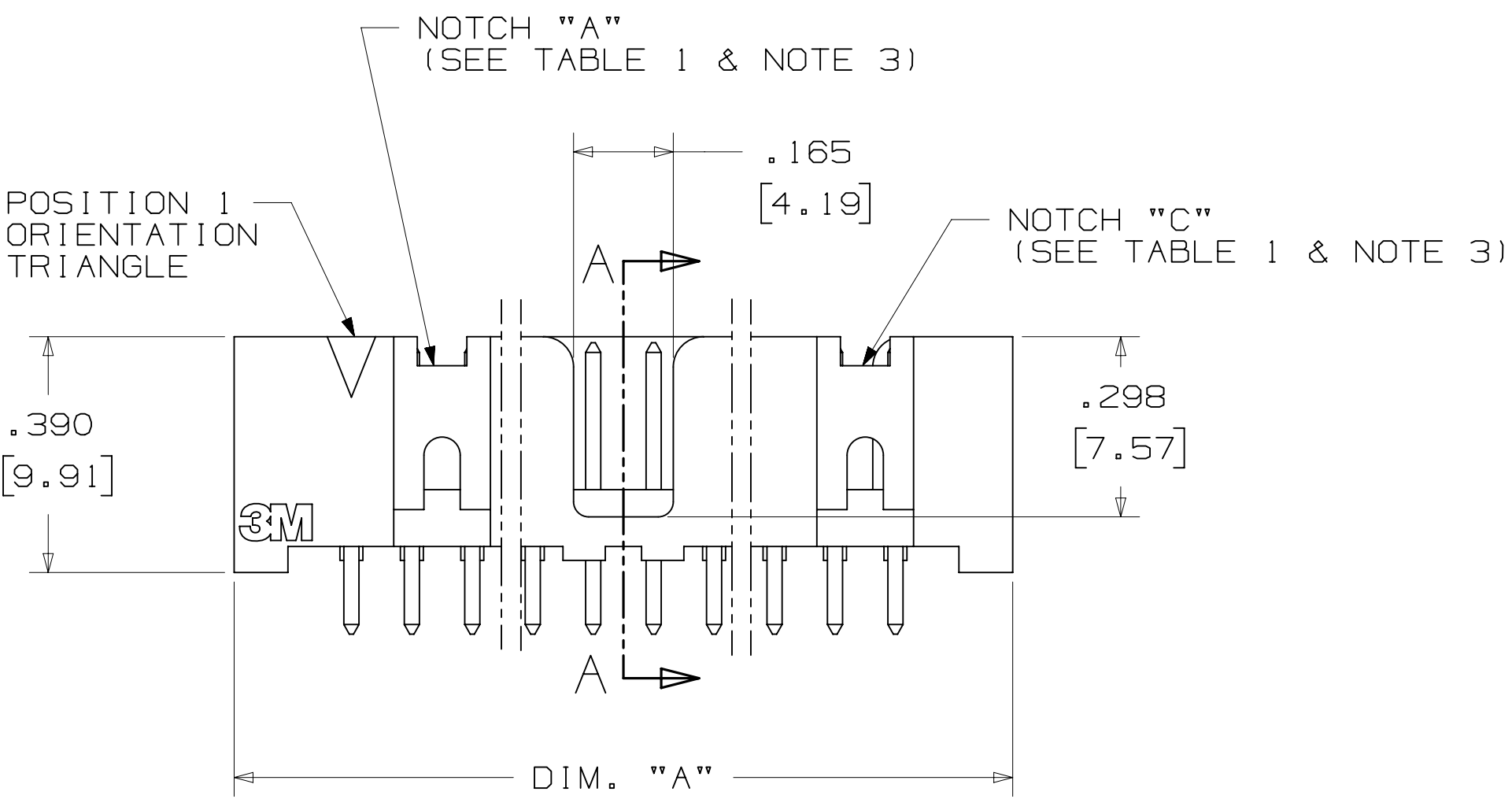
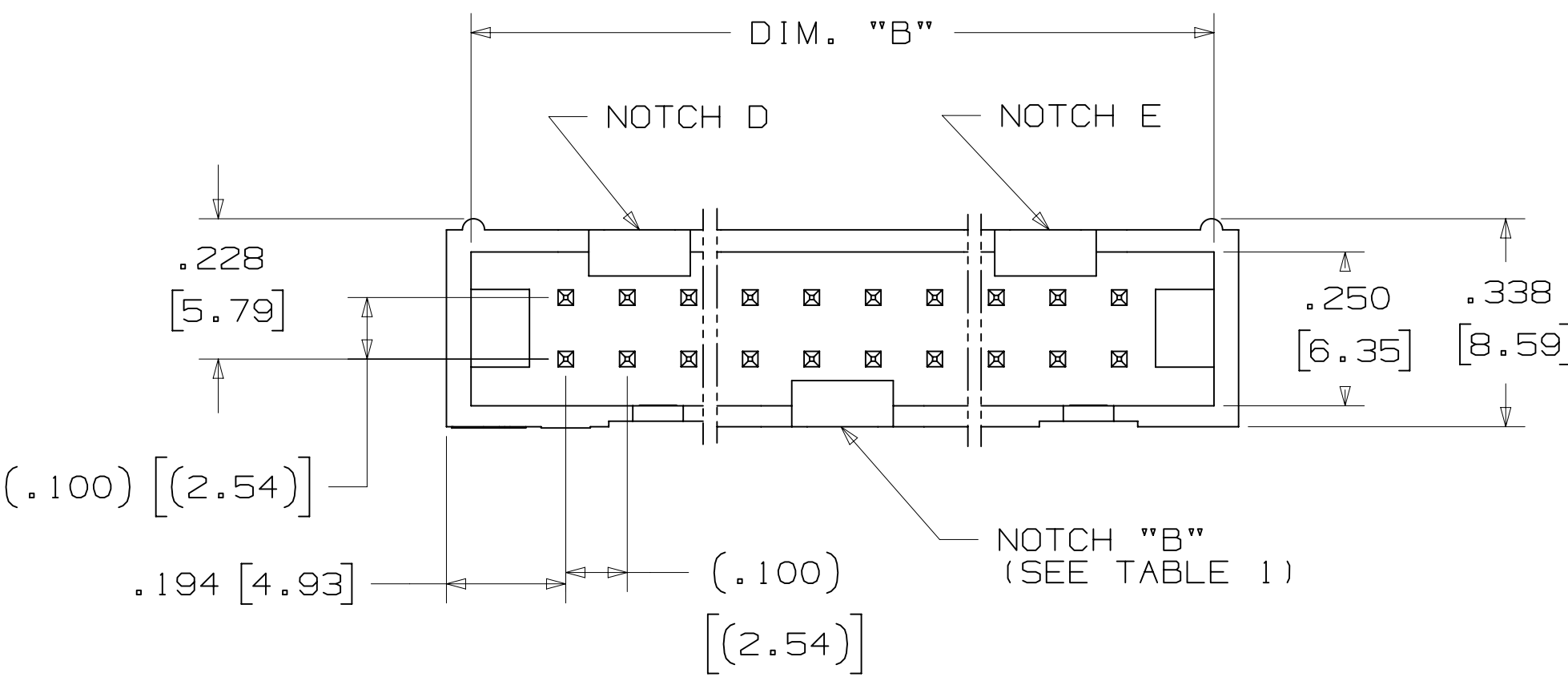


TABLE 1				
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	06
08	.688 [17.48]	.608 [15.44]	B	08
10	.788 [20.02]	.708 [17.98]	BC	10
14	.988 [25.10]	.908 [23.06]	BCDE	14
16	1.088 [27.64]	1.008 [25.60]	ABCDE	16
20	1.288 [32.72]	1.208 [30.68]	ABCDE	20
24	1.488 [37.80]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

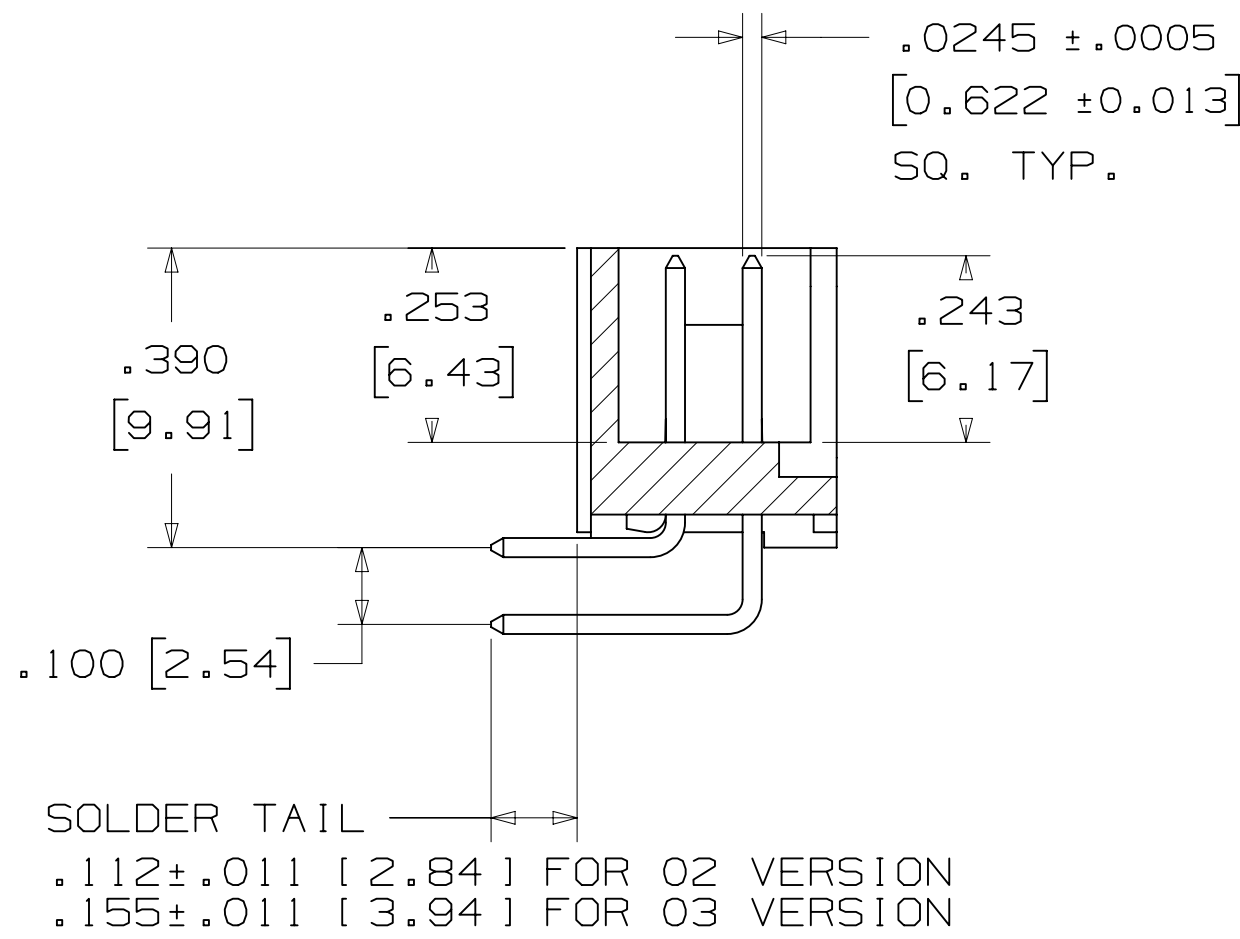
N= HIGH TEMP BLACK (PCT)
(RB, UB OR UG PLATING REQ'D)
BLANK= (UB OR UG PLATING)
PIN QUANTITY:
(SEE TABLE 1)
SOLDER TAIL:
02 = FOR .062 [1.57] THICK BOARD
03 = FOR .094 TO .125 [2.39 TO 3.18]
THICK BOARD

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		DRP	CASTIGLIONE	DATE	MFG	DATE
		CHKD		AUG 11, 2014	R. SCHERER	SEP 05, 2014
DIVISION	Interconnect Solutions	DIVISION CODE	EMSD	© 3M COPYRIGHT 2016		
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144		
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	INCHES .00 ±.01 .000 ±.005 .0000 ±		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.		
MAX SURFACE ROUGHNESS	MAX SURFACES	MILLIMETERS 0 ±.3 .00 ±.13 .000 ±		TITLE		
MARKED ONLY	ANGLES	CAGE NUMBER		DRAWING NO.		
		D78-5100-0770-7		REV. N		
		MODEL		2500 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



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

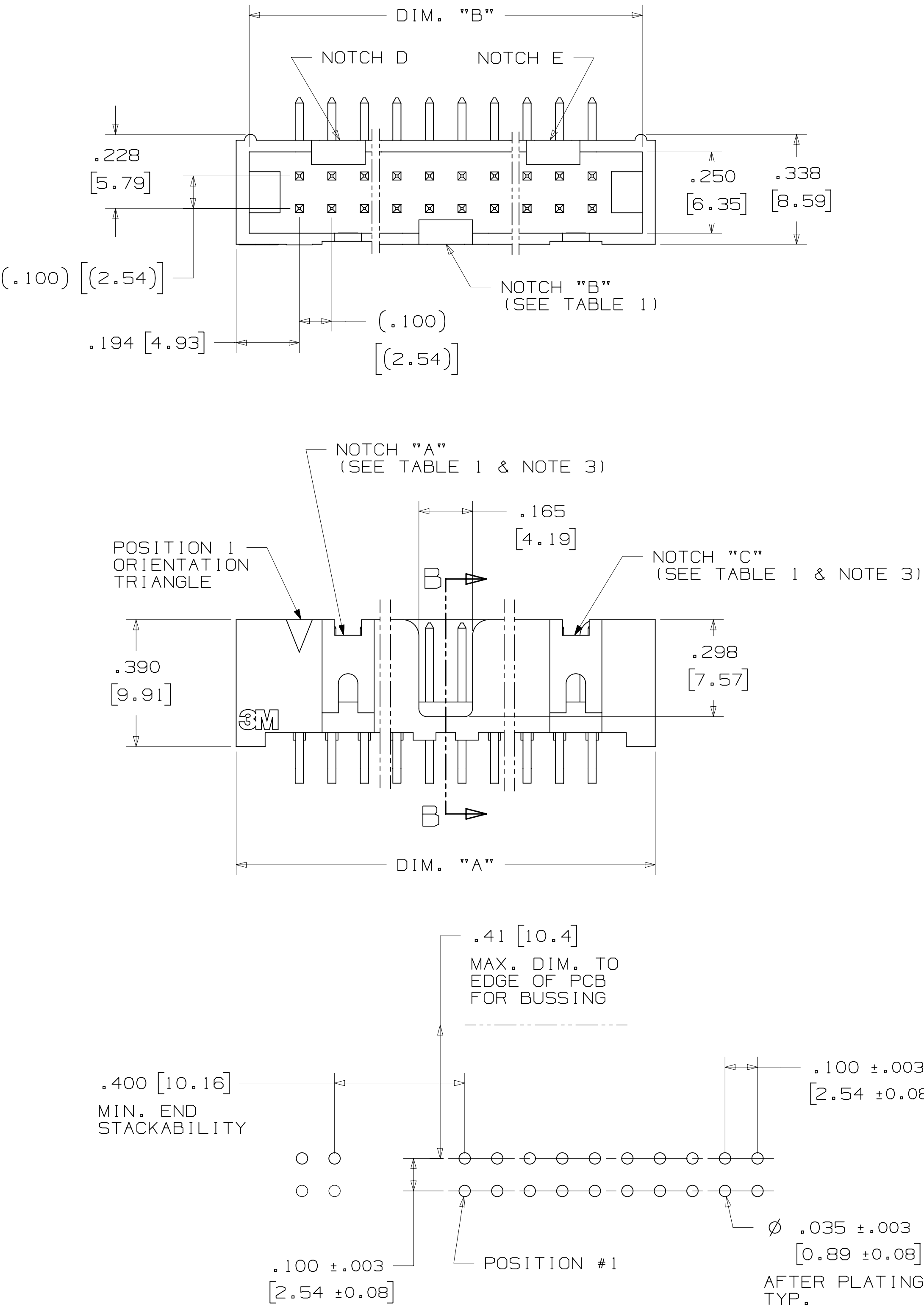
X25XX-50XX-XX

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)

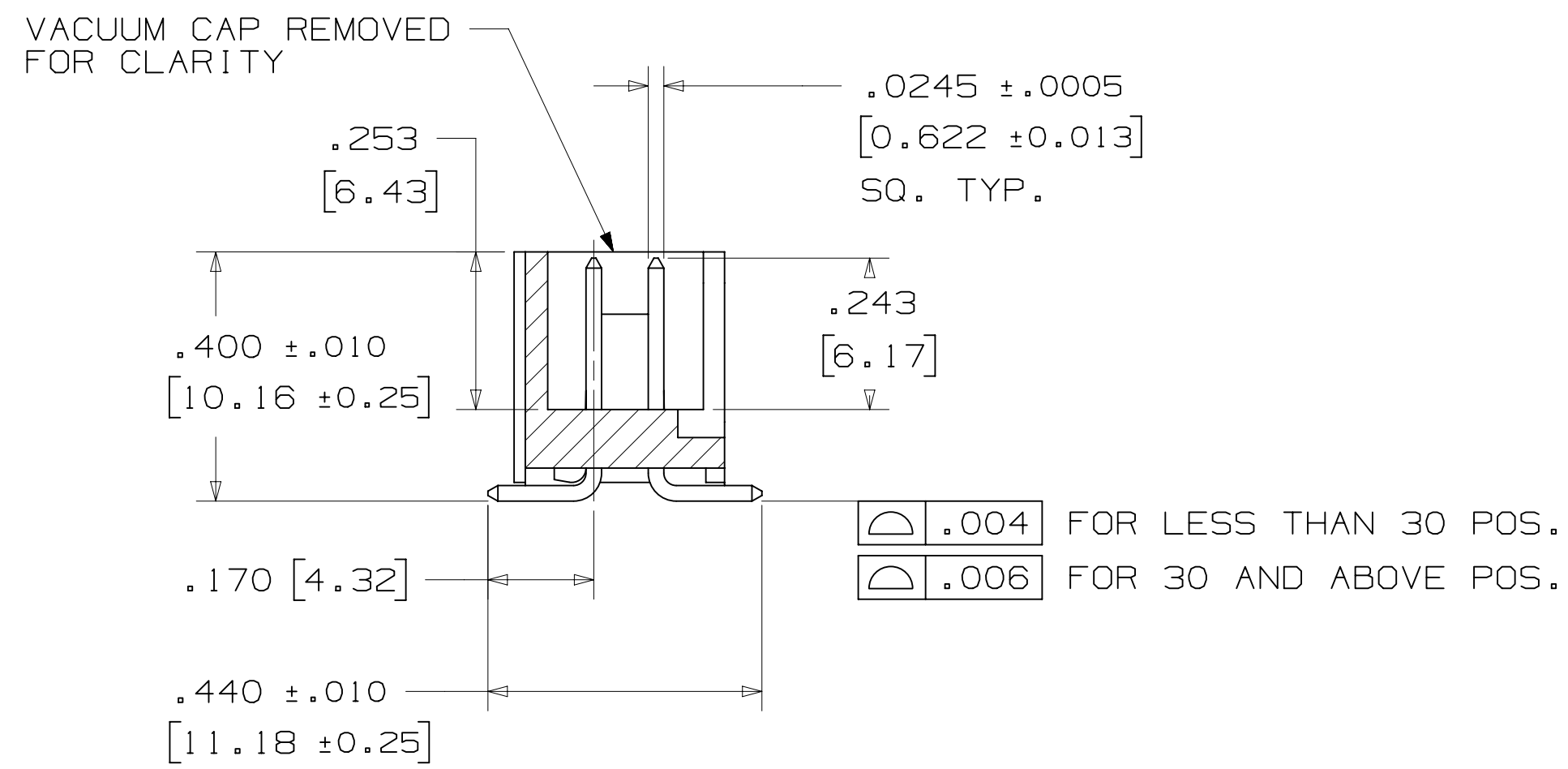


RECOMMENDED HOLE PATTERN
SHOWN FROM COMPONENT SIDE

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				
TITLE		CAGE NUMBER				
HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA		D 78-5100-0770-7				
MODEL		2500 SERIES				
REV.		N				
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

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

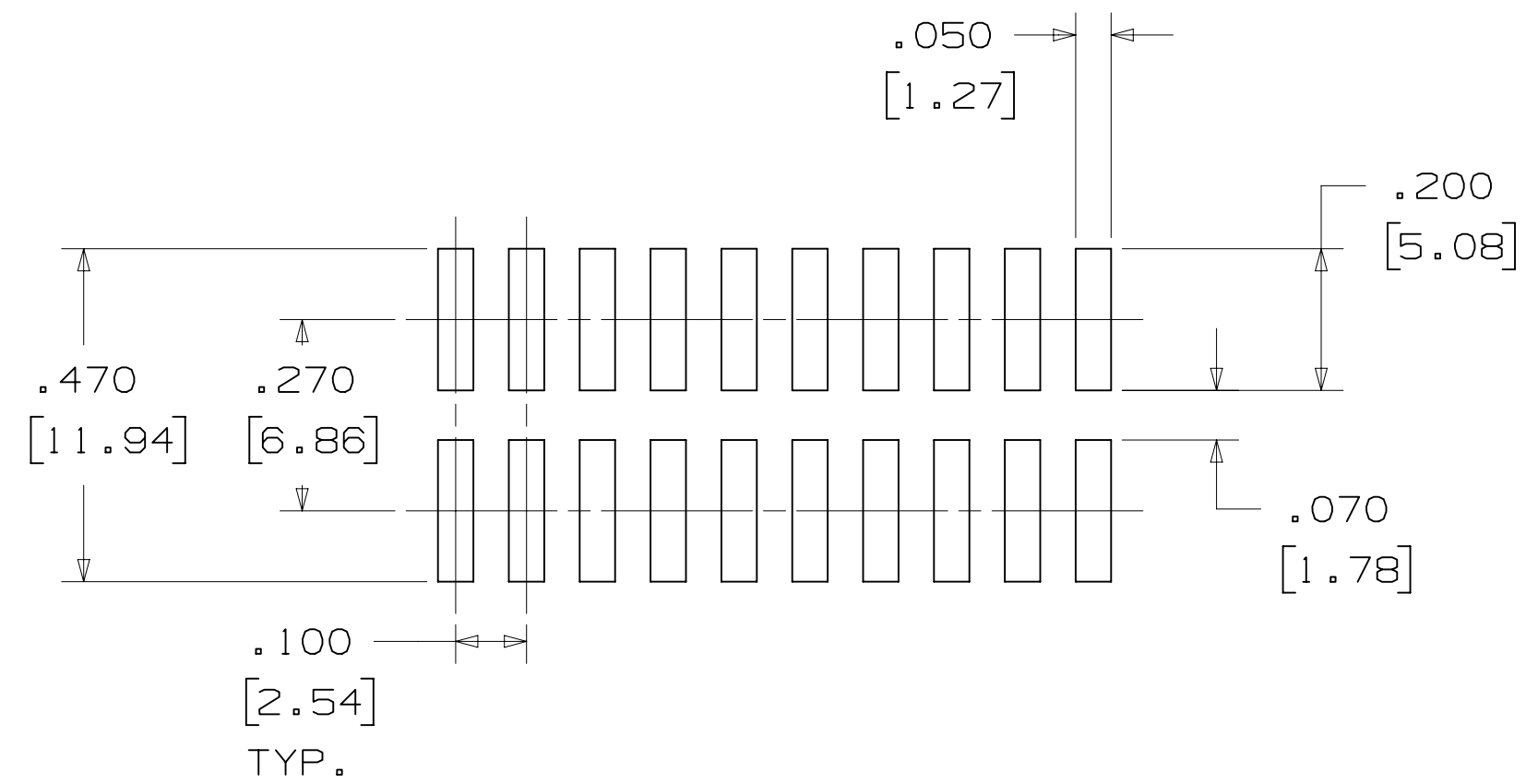
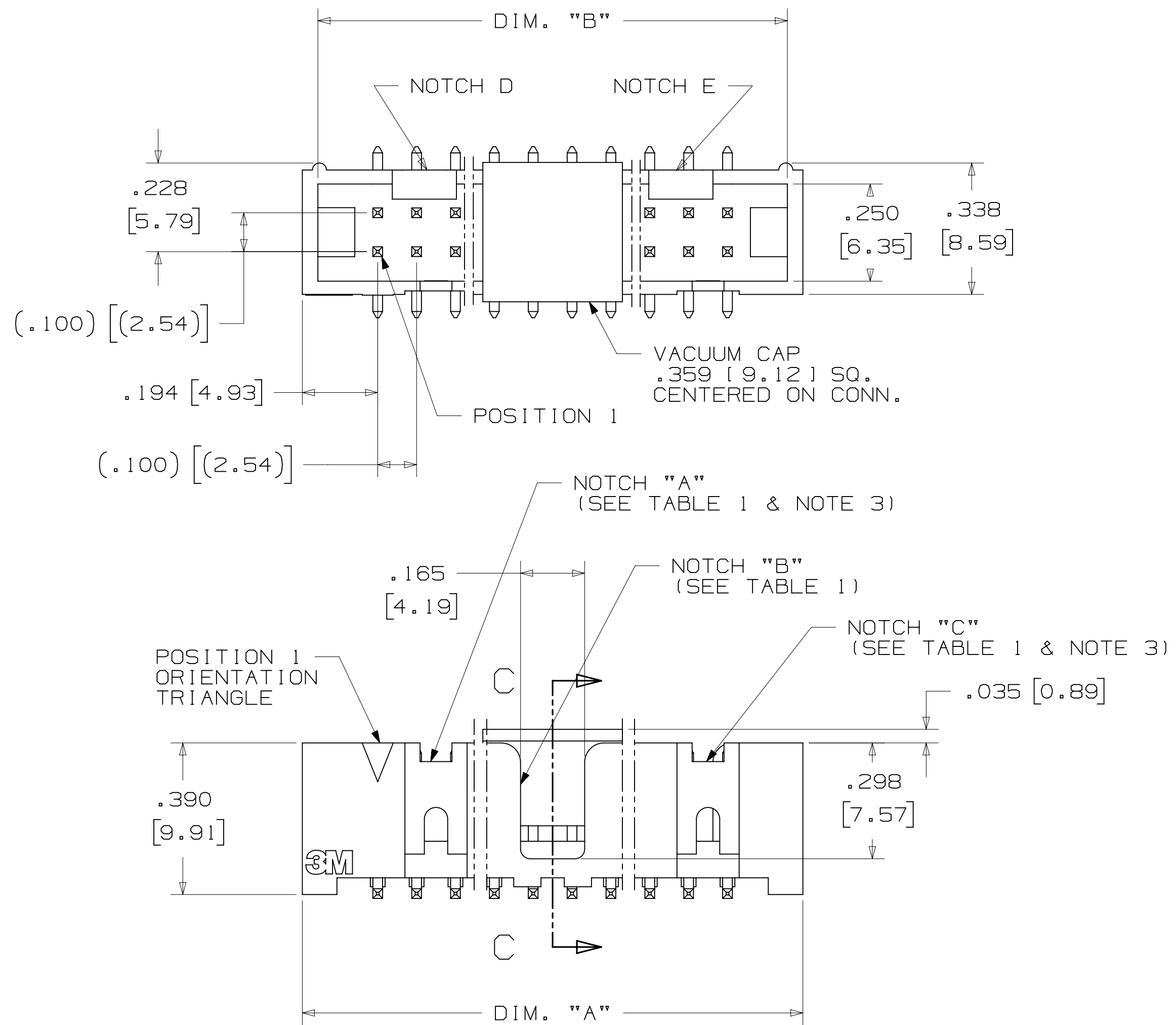
SURFACE MOUNT VERSION

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		REV		ECO		ISSUE DATE		AND DESCRIPTION		DRAFT		CHKD	
ACORN CODES				DRAFT		CASTIGLIONE		DATE		AUG 11, 2014		MFG		DATE	
				CHKD				DATE				APPROV		DATE	
												R. SCHERER		SEP 05, 2014	
DIVISION				DIVISION CODE				© 3M COPYRIGHT 2016							
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DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED				3M TITLE HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA							
		INCHES .00 .01 .00 .005 .0000 .00													
THIRD ANGLE PROJECTION		MILLIMETERS 0 .0 .00 .13 .000 .00		MAX SURFACE ROUGHNESS 1.6 1.6 1.6				CAGE NUMBER D78-5100-0770-7				REV. N			
☒ MARKED ONLY		ANGLE		MODEL 2500 SERIES				DET. LISTS ☐ YES ☒ NO				SHT 4 OF 5			

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

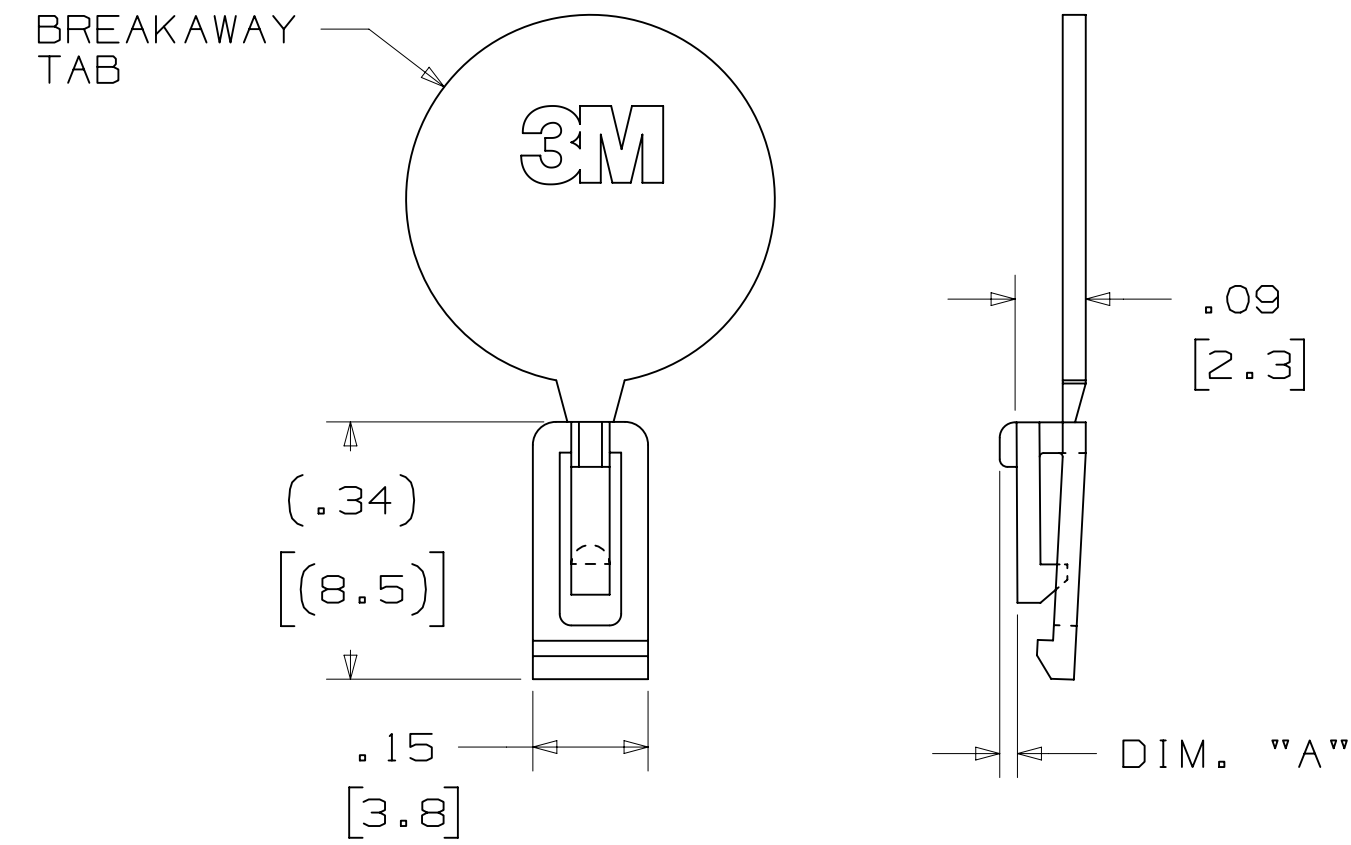
PART CUSTOMIZATION

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.

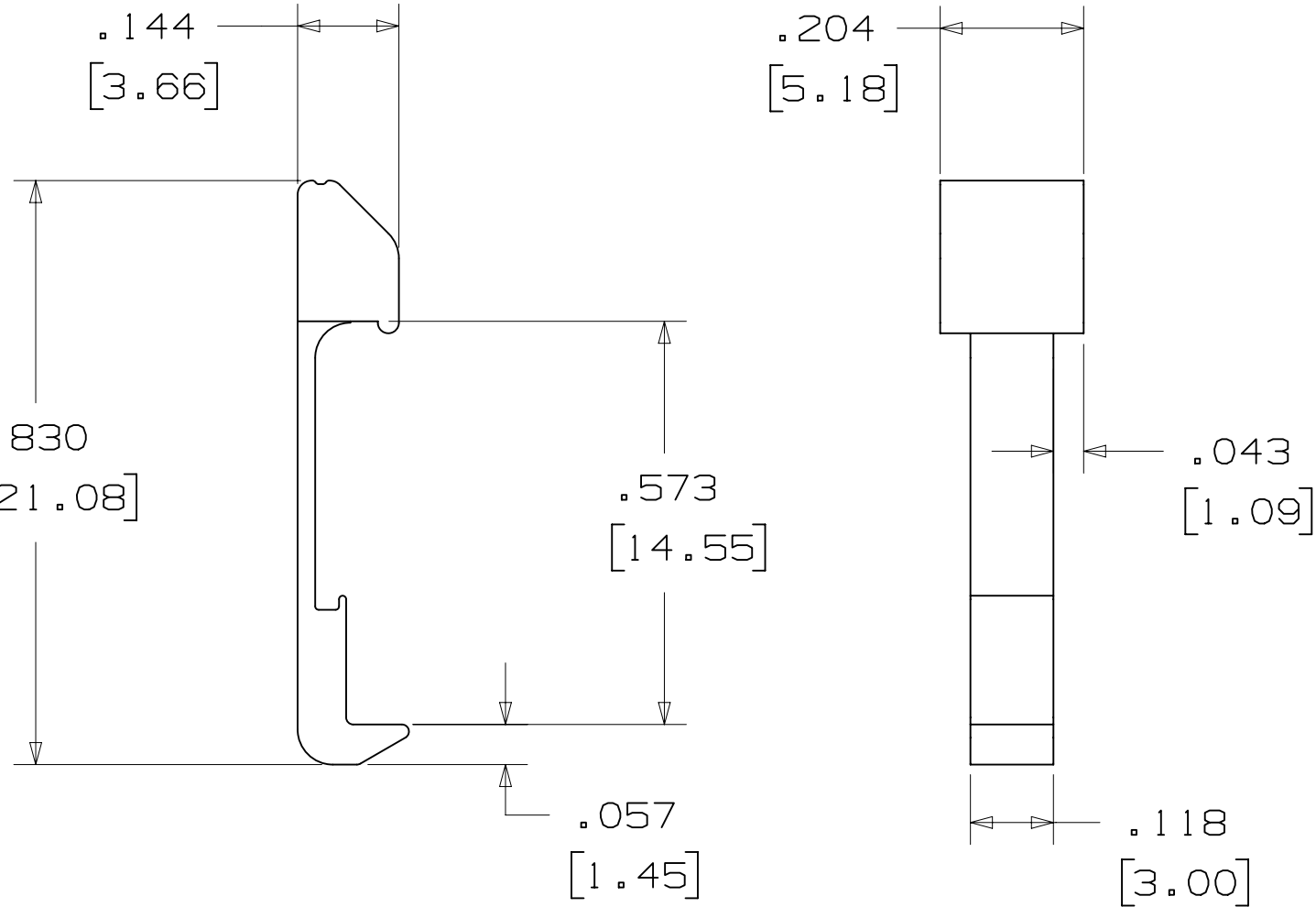
POLARIZING KEY



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

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

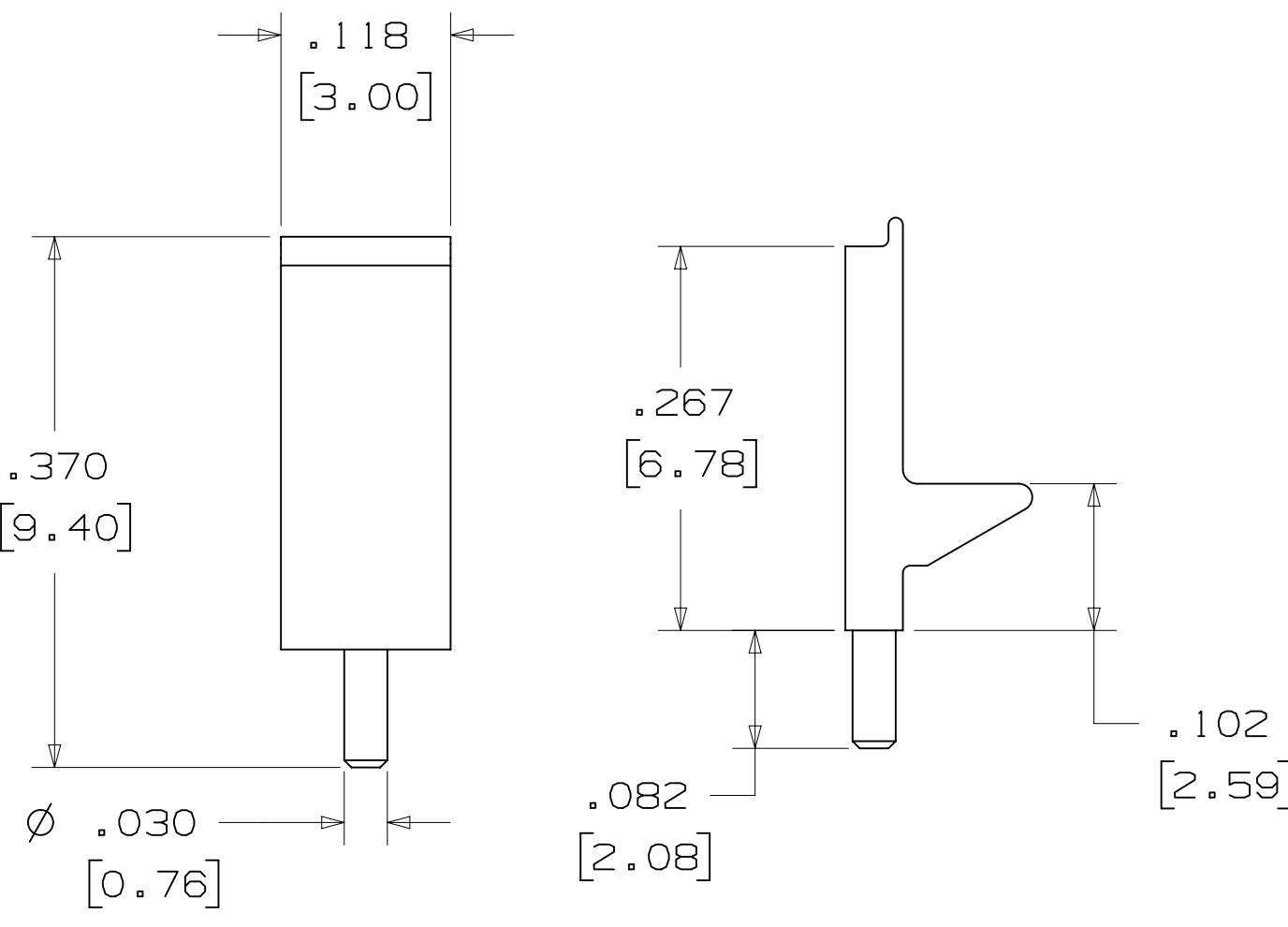
LOW PROFILE LATCH



PART NO.	MATERIAL	COLOR
3505-33B	NYLON	BLACK

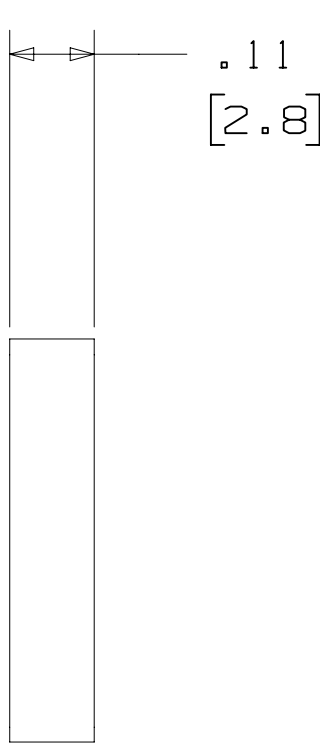
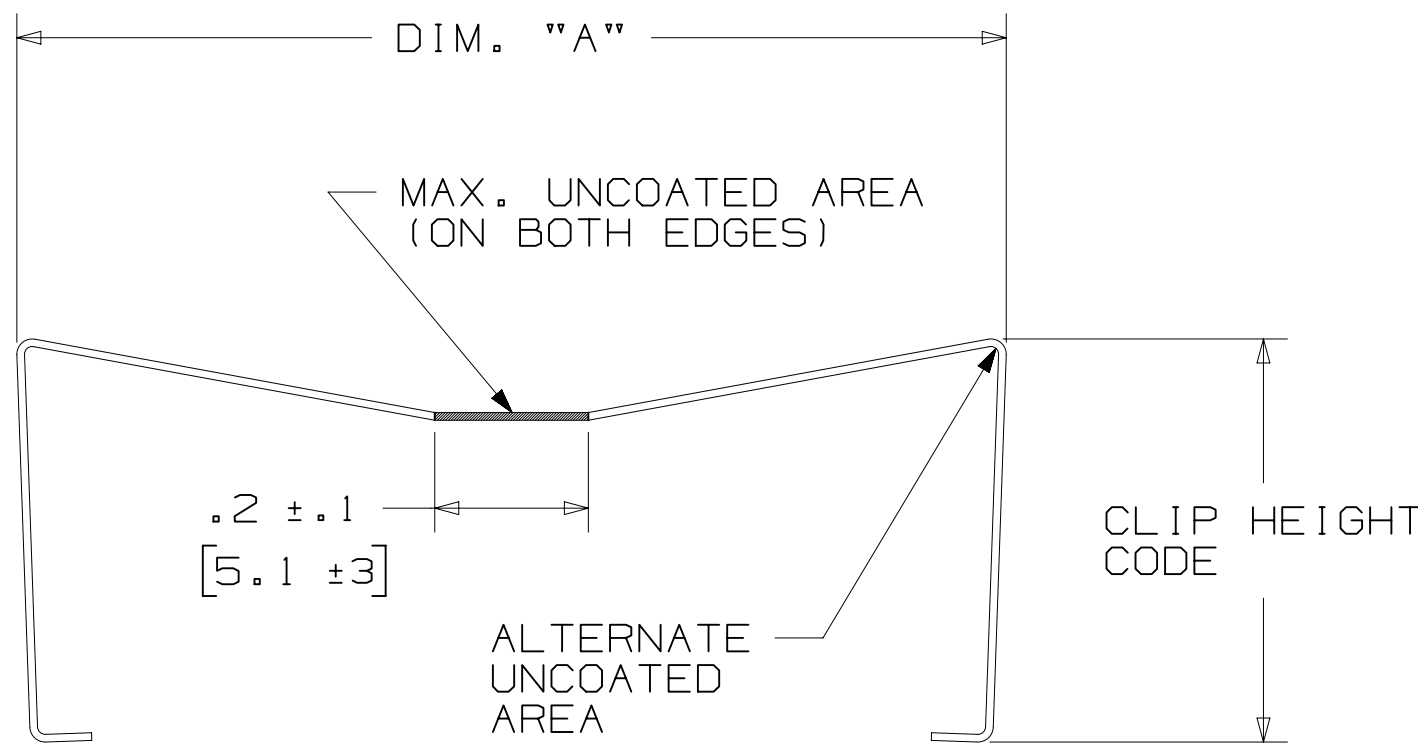
NOTE:
LATCHES NOT COMPATIBLE WITH REFLOW SOLDERING.
ATTACH LATCHES AFTER SOLDERING.

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

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XREF CODES				DRP	CASTIGLIONE	DATE	AUG 11, 2014	MFG	DATE
				CHKD		DATE		APPR	DATE
								R. SCHERER	SEP 05, 2014
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2016					
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DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED					
				INCHES					
				.0 ± .01					
				.00 ± .005					
				.0000 ±					
THIRD ANGLE PROJECTION				MILLIMETERS					
				0 ±					
				.0 ± .3					
				.00 ± .13					
				.000 ±					
MAX SURFACE ROUGHNESS				ANGLES					
✓ SURFACES									
✓ MARKED ONLY									
				CAGE NUMBER		DRAWING NO.		REV.	
				D78-5100-0770-7		N			
				MODEL		2500 SERIES		DET	
						YES		NO	
						SHT 5 OF 5			

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](#)