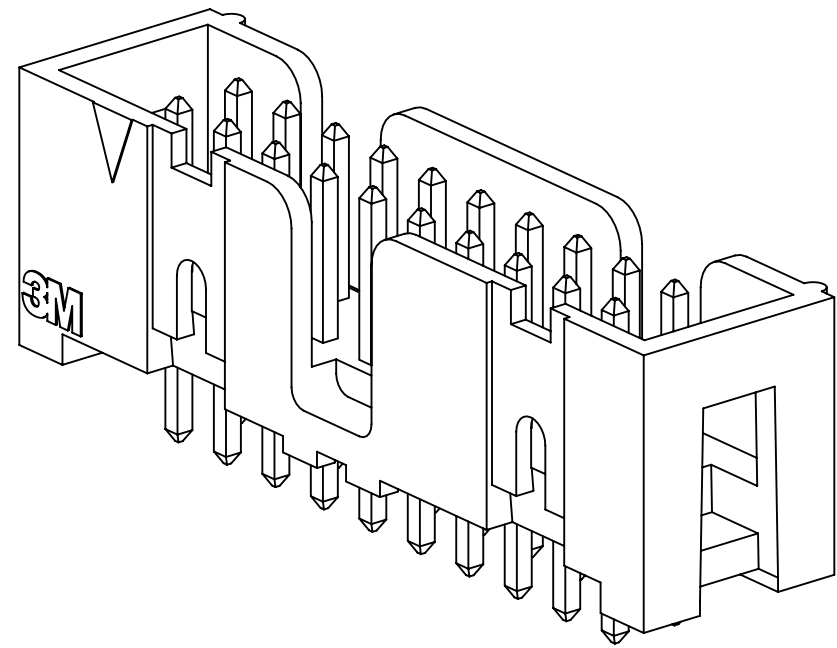


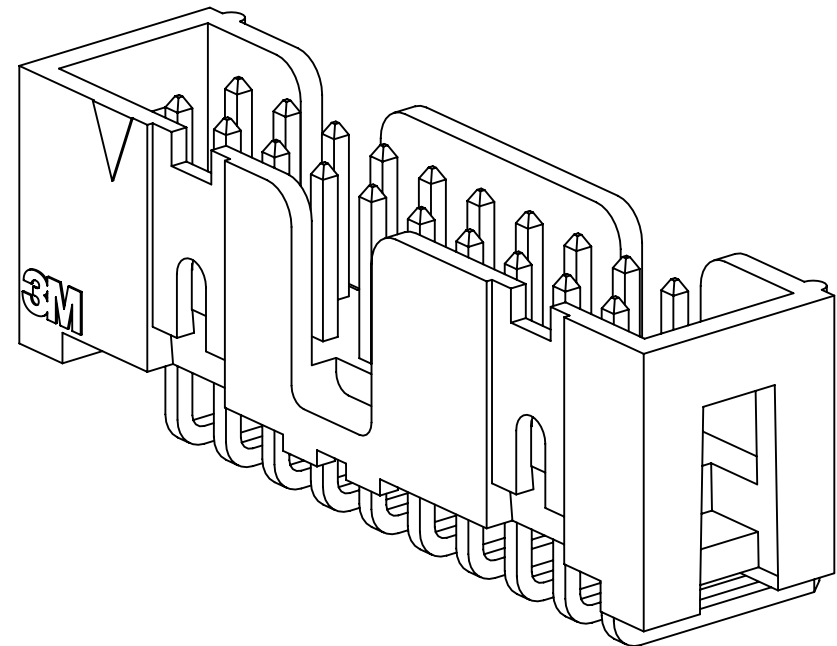
3M™ FOUR-WALL HEADER, 2500 SERIES

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



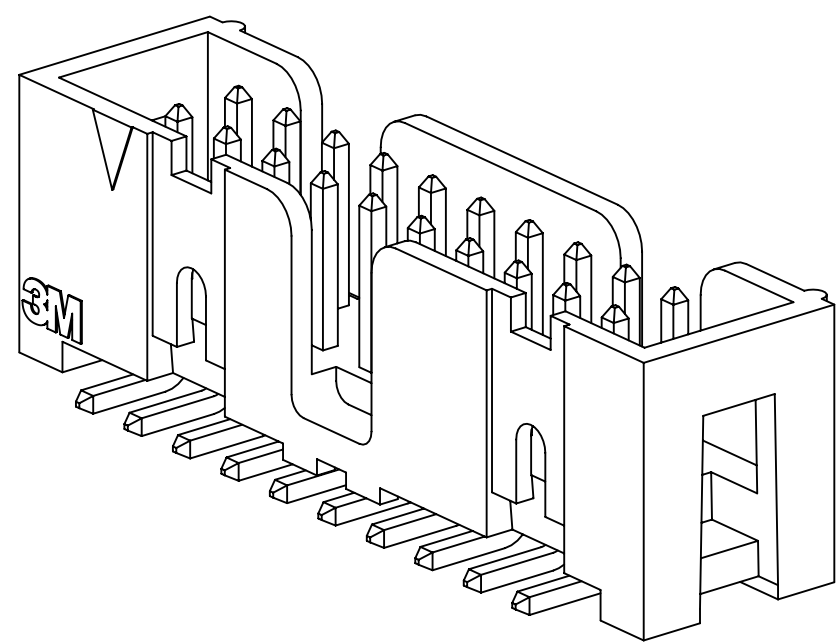
25XX - 60XX

STRAIGHT VERSION



25XX-50XX

RIGHT ANGLE VERSION



25XX-6V0C

SURFACE MOUNT VERSION

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

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

- * 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

```

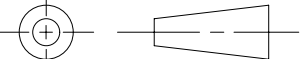
2 ELECTRICAL :

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: $>1 \times 10^9 \Omega$ 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)

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

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
RZL CODES				REV	CASTIGLIONE	DATE	AUG 11, 2014	MFG	DATE
				CHKD		DATE		APPRV.	SEP 05, 2014
				R. SCHERER					
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2016					
Interconnect Solutions		EMSD		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 $\frac{1}{1}$		3M 3M Center St. Paul, MN 55144					
		TOLERANCES EXCEPT AS NOTED		TITLE					
		INCHES .00 ± .00 ± .01 .000 ± .005 .0000 ±		HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA					
THIRD ANGLE PROJECTION		MILLIMETERS		CAGE					
INTERPRET PER ASME Y14.5 - 2009		0 ± .00 ± .3 .00 ± .13 .000 ±		SIZE					
MAX SURFACE ROUGHNESS DATE SURFACES ☒ MARKED ONLY				DRAWING NO.					
				D 78-5100-0770-7					
				REV.					
				N					
		MODEL		2500 SERIES					
		ANGLES		DET.					
				LISTS ☐ YES ☒ NO					
				SHT 1 OF 5					

UL[®]
US
UL FILE NO: E68080

Imaged: N.J. 8/5/2016 11:10 AM UTC-05:00

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

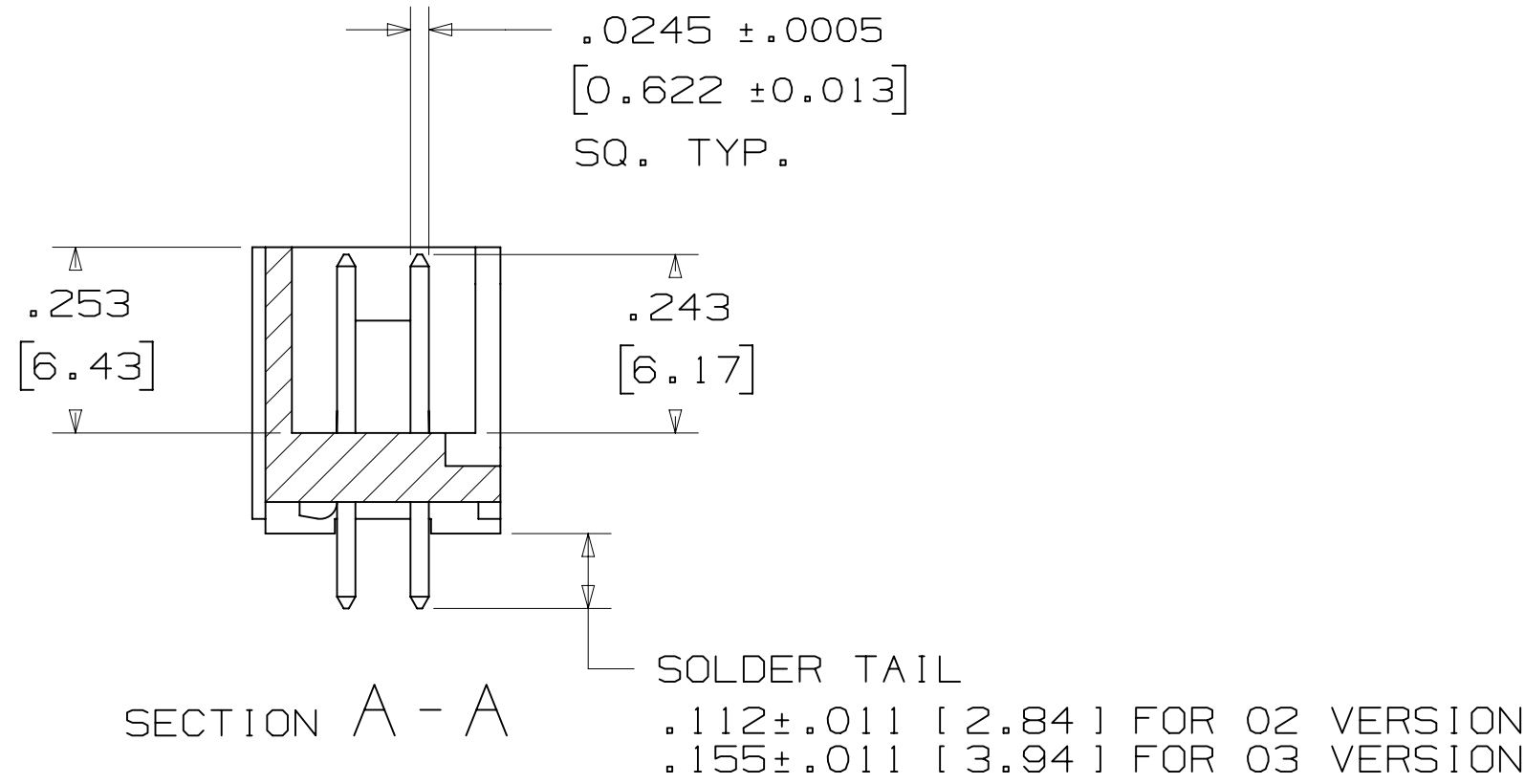
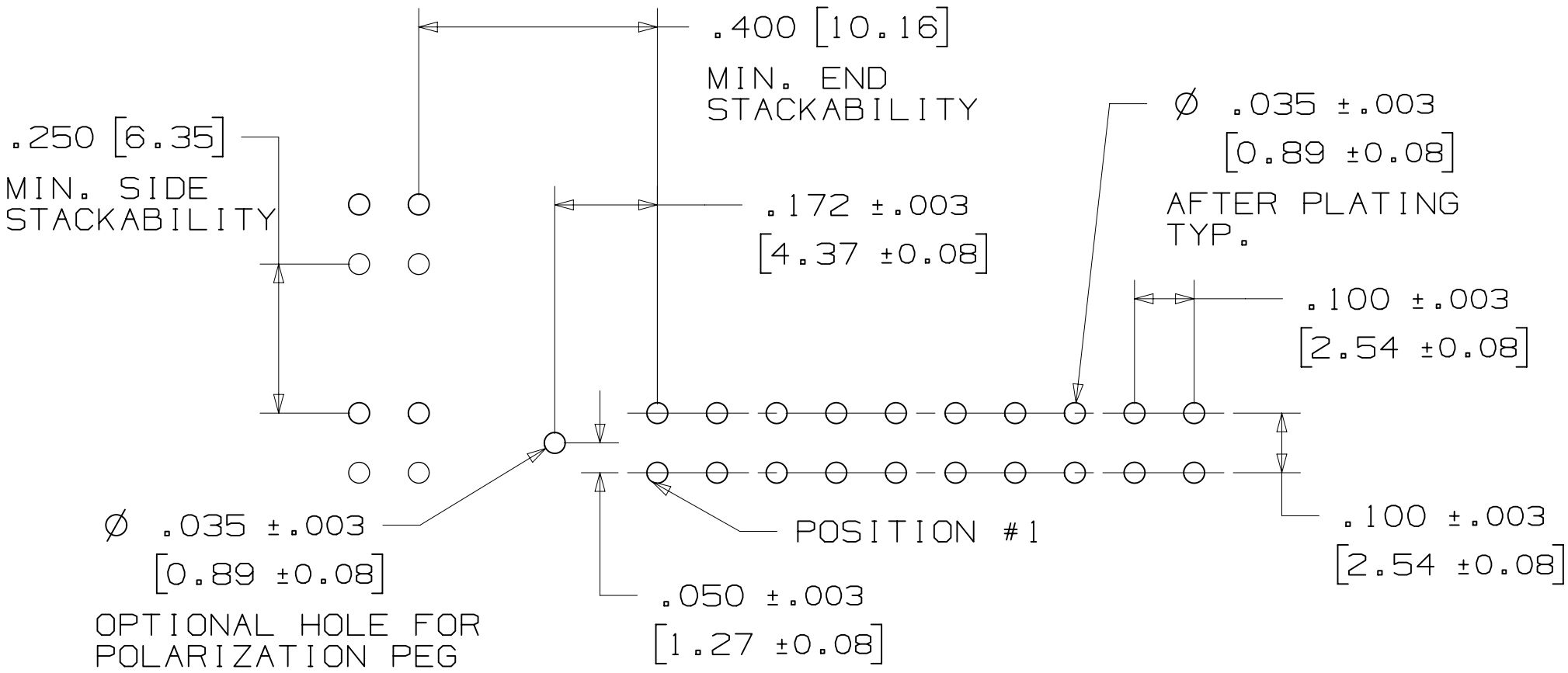
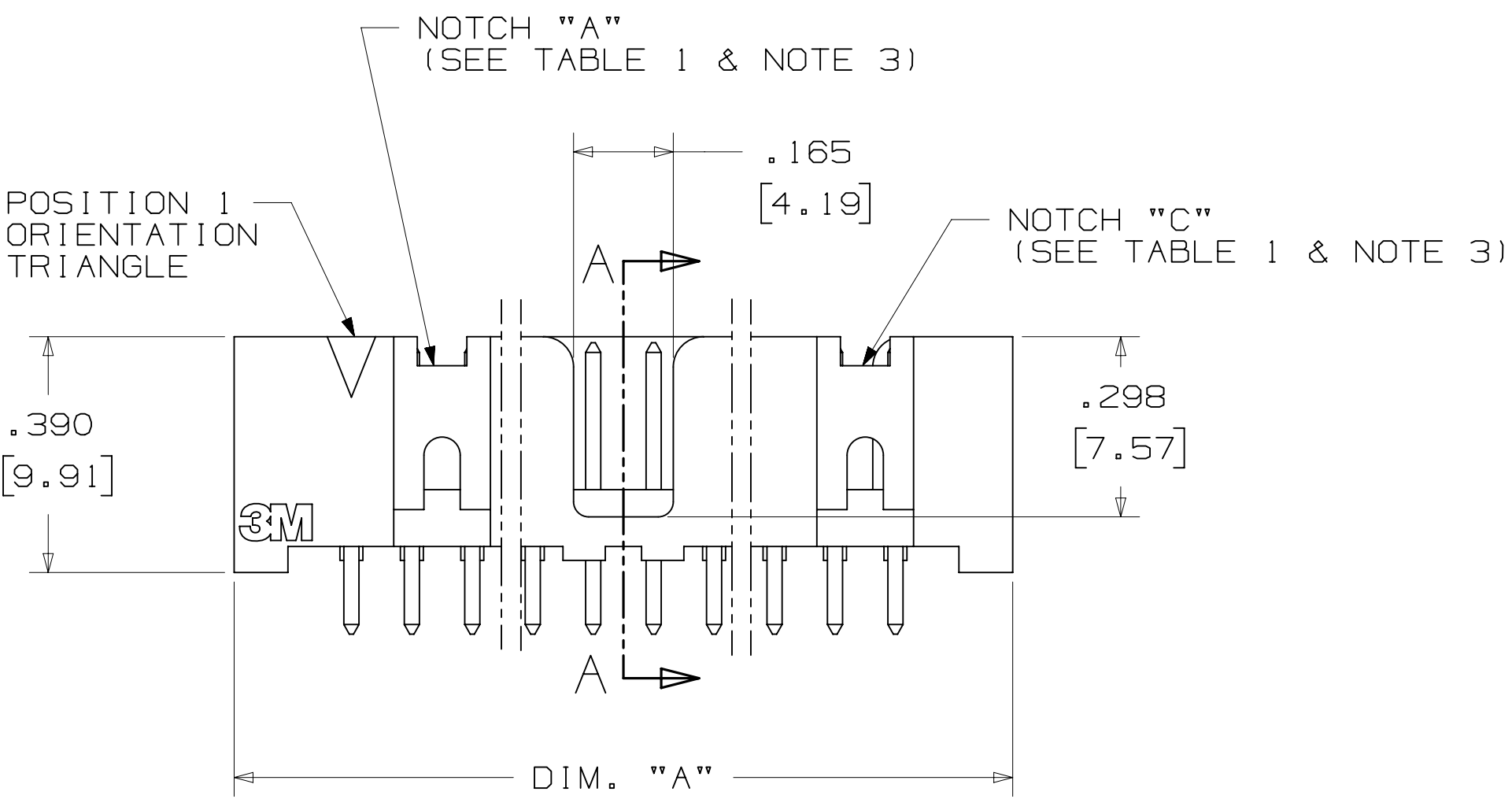
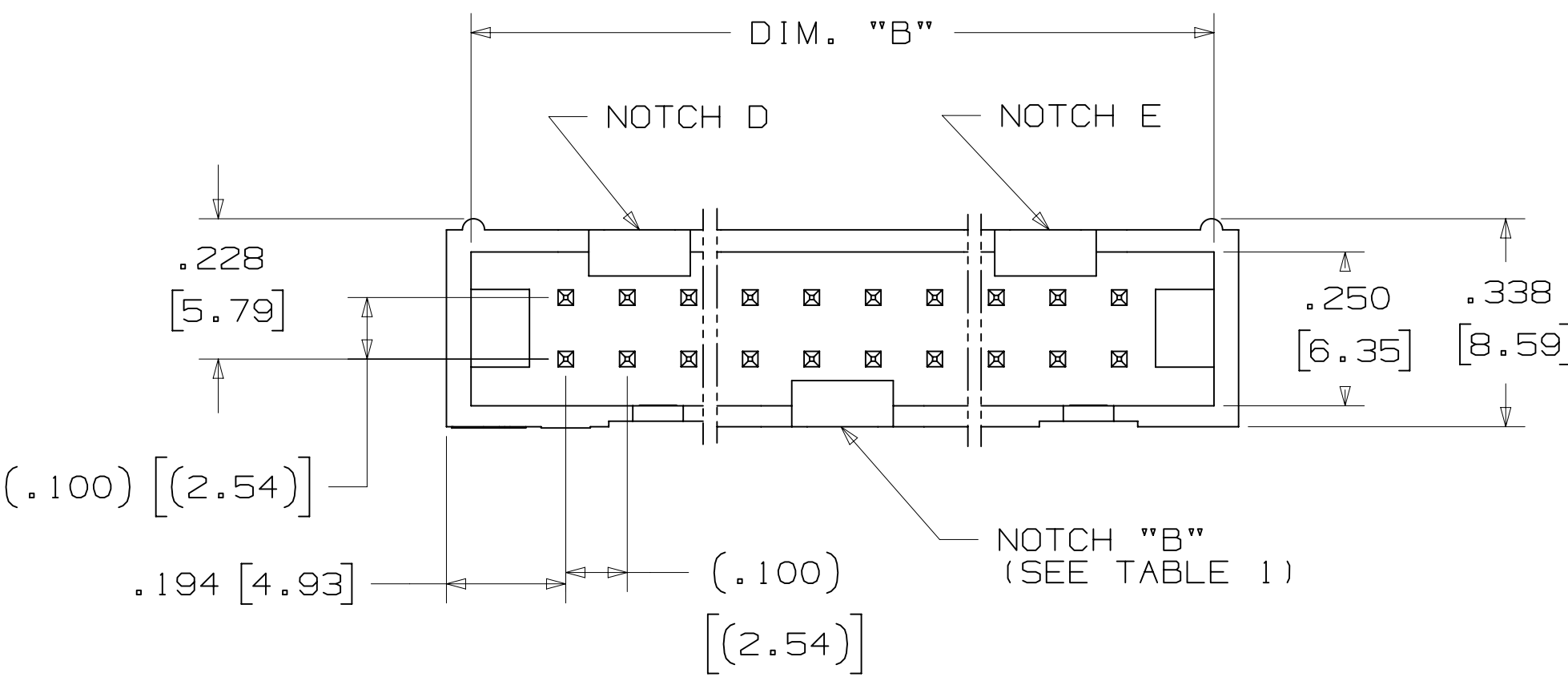


TABLE 1				
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	06
08	.688 [17.48]	.608 [15.44]	B	08
10	.788 [20.02]	.708 [17.98]	BC	10
14	.988 [25.10]	.908 [23.06]	BCDE	14
16	1.088 [27.64]	1.008 [25.60]	ABCDE	16
20	1.288 [32.72]	1.208 [30.68]	ABCDE	20
24	1.488 [37.80]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

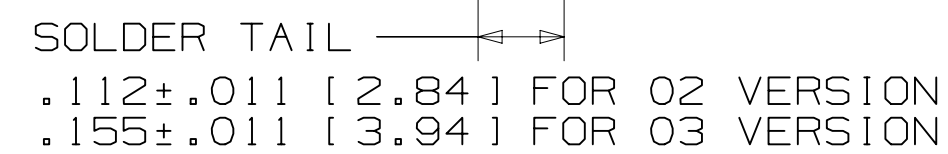
N= HIGH TEMP BLACK (PCT)
(RB, UB OR UG PLATING REQ'D)
BLANK= (UB OR UG PLATING)
PIN QUANTITY:
(SEE TABLE 1)
SOLDER TAIL:
02 = FOR .062 [1.57] THICK BOARD
03 = FOR .094 TO .125 [2.39 TO 3.18] THICK BOARD

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	DATE	DATE
		CHKD		AUG 11, 2014	MFG	SEP 05, 2014
				DATE	APPR	DATE
					R. SCHERER	
DIVISION	DIVISION CODE	© 3M COPYRIGHT 2016				
Interconnect Solutions	EMSD	3M Center St. Paul, MN 55144				
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED				
		INCHES .00 ±.01 .000 ±.005 .0000 ±				
		MILLIMETERS 0 ± .3 .00 ±.13 .000 ±				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	CAGE NUMBER D78-5100-0770-7				
MAX SURFACE ROUGHNESS	MAX SURFACE ROUGHNESS	DRAWING NO. 78-5100-0770-7				
MARKED ONLY	MARKED ONLY	REV. N				
		MODEL 2500 SERIES				
		DET LISTS YES NO SHT 2 OF 5				

.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

X25XX-50XX-XX

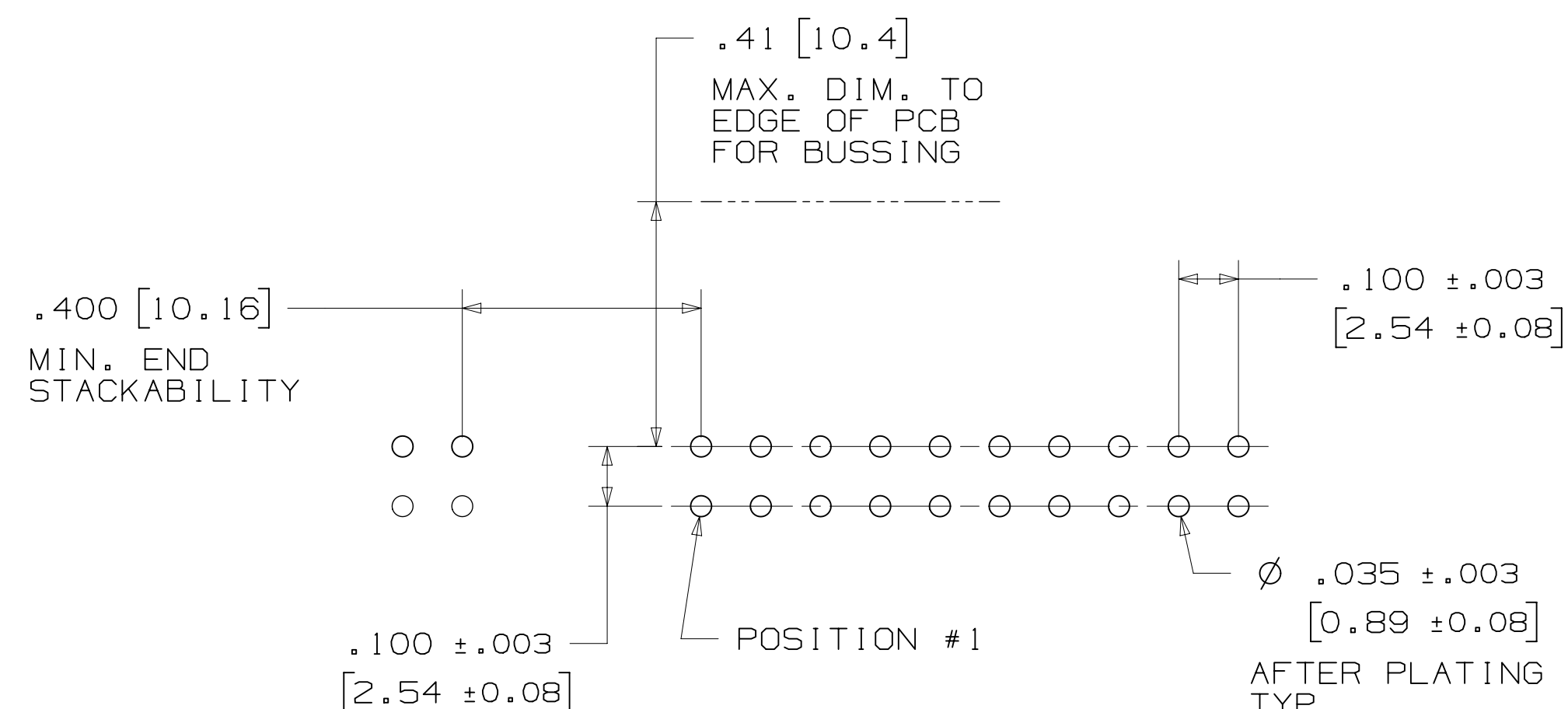
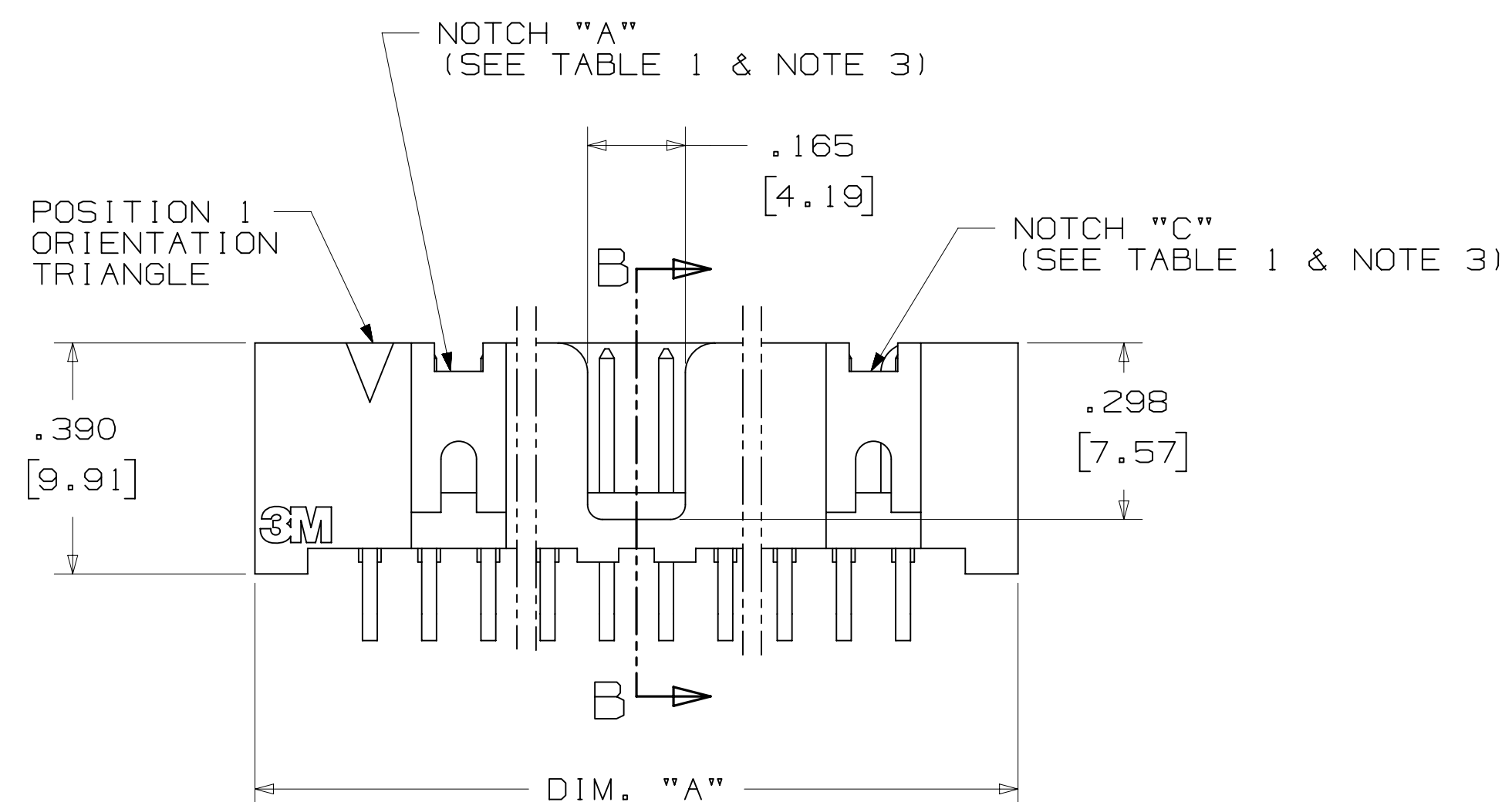
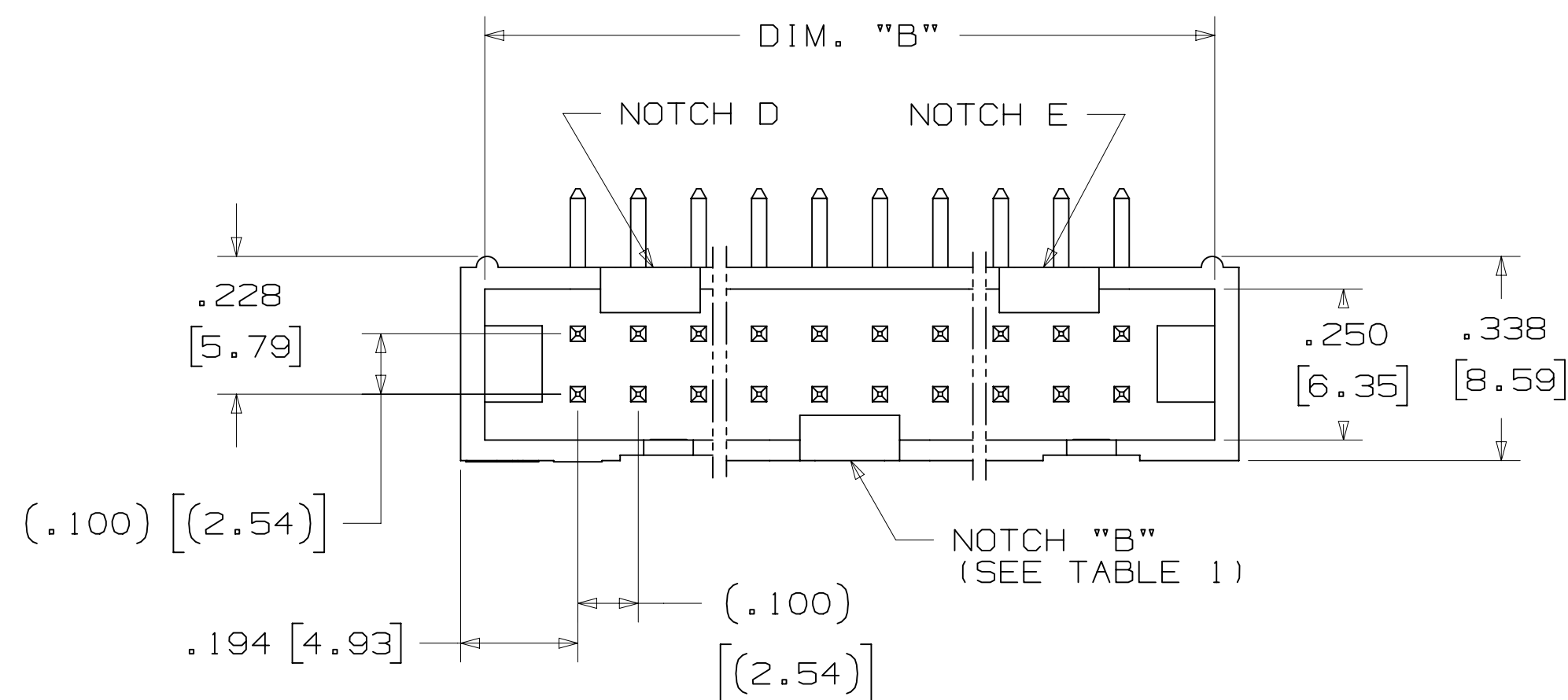
PIN QUANTITY:
(SEE TABLE 1)

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

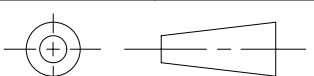
```

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)

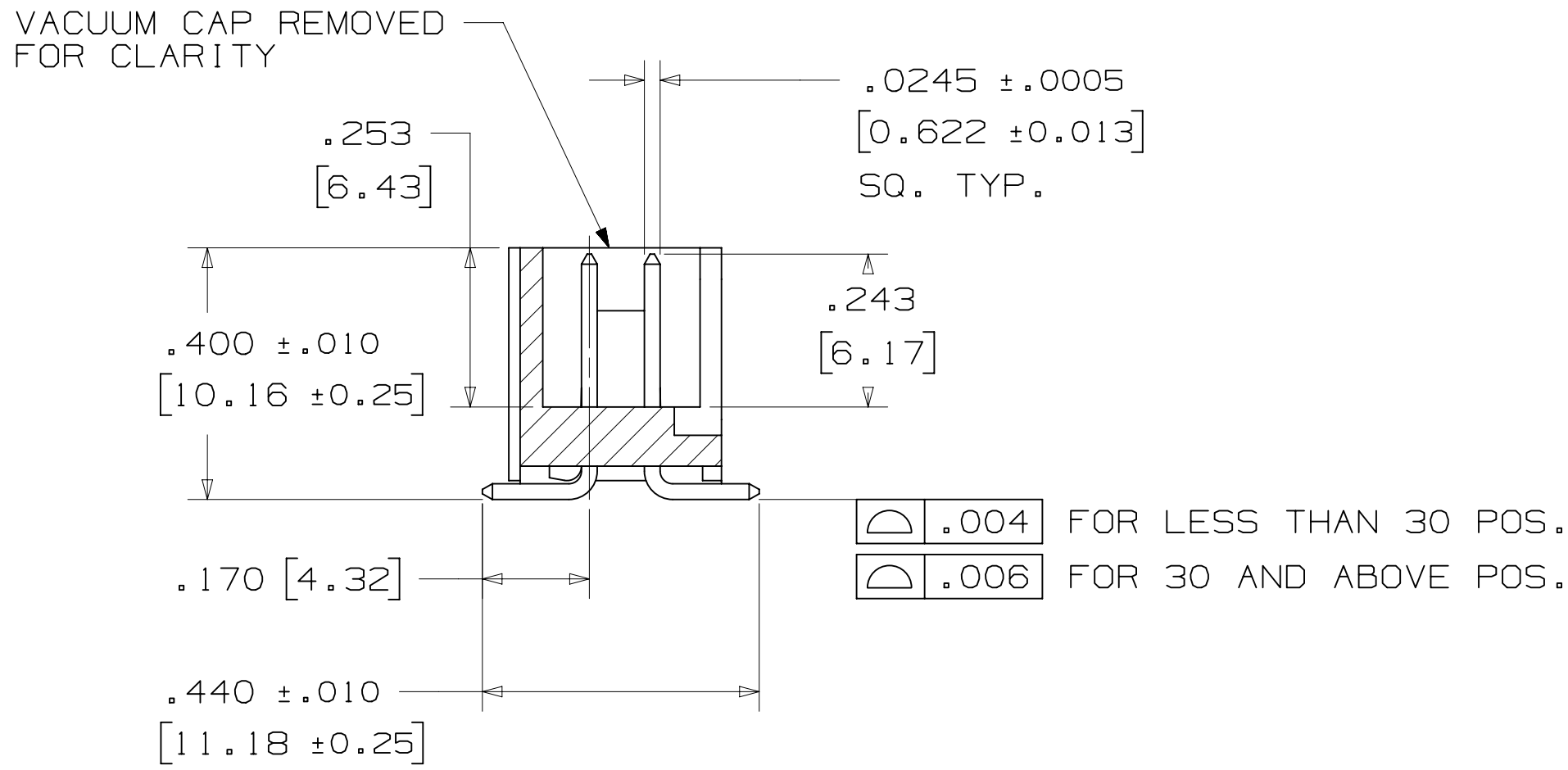
```



RECOMMENDED HOLE PATTERN
SHOWN FROM COMPONENT SIDE

DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
ACR CODES				DPT		DATE		MFG		DATE			
				CASTIGLIONE		AUG 11, 2014		R, SCHERER		SEP 05, 2014			
DIVISION		DIVISION CODE		CHKD				APPRV		DATE			
Interconnect Solutions		EMSD											
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		3M 3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2016 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.					
		INCHES :0 :00 ± .01 :000 ± .005 :0000 ±		TITLE HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA									
THIRD ANGLE PROJECTION		MILLIMETERS 0 :0 ± .3 :00 ± .13 :000 ±		CAGE NUMBER		SIZE		DRAWING NO.		REV.			
INTERPRET PER ASME Y14.5 - 2009				D		D78-5100-0770-7		N					
MAX SURFACE ROUGHNESS		MIN SURFACES		MODEL		2500 SERIES		DET. LISTS		YES X NO		SHT 3 OF 5	
✓ ☐ MARKED ONLY		ANGLE ±											

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

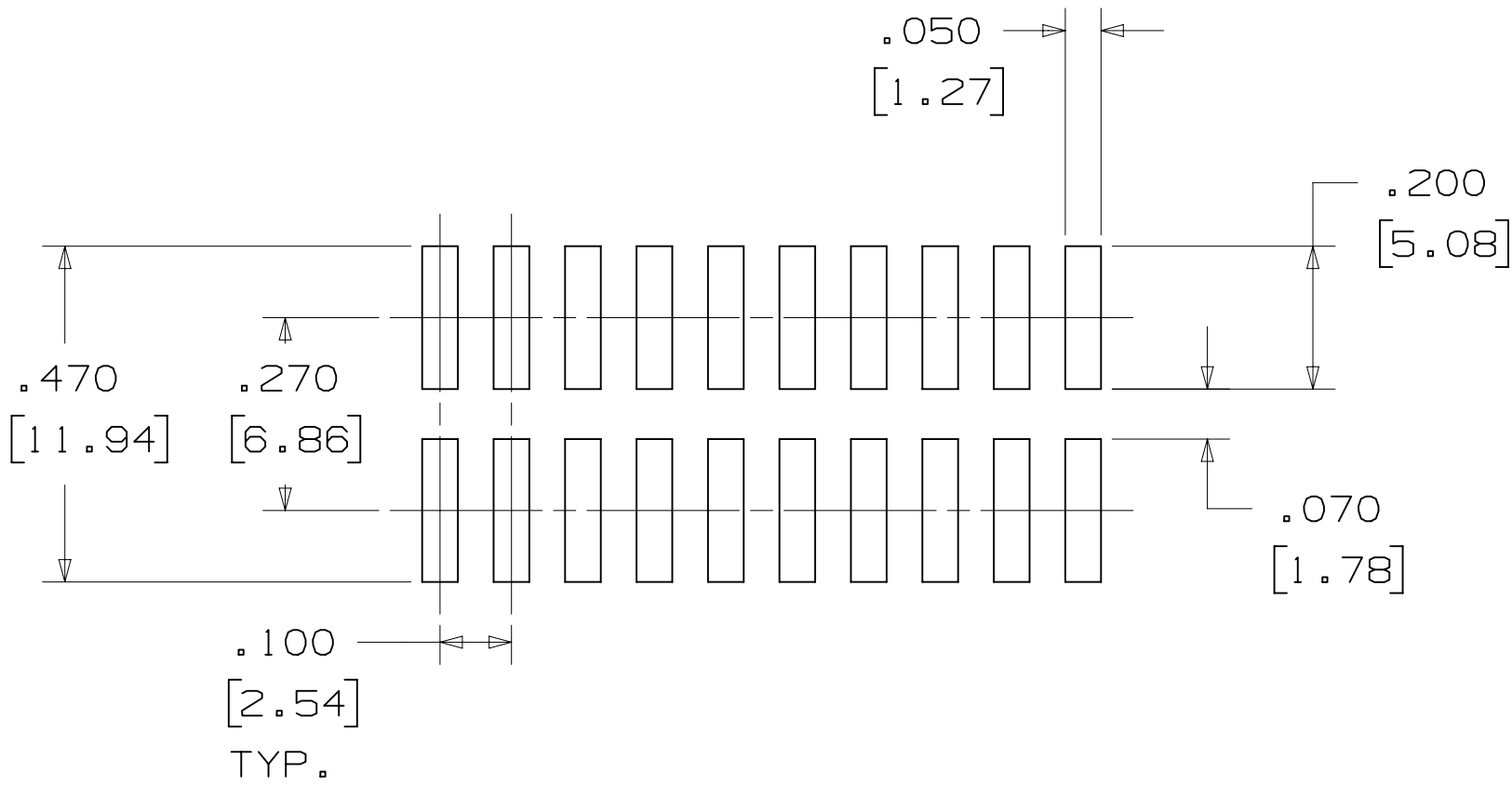
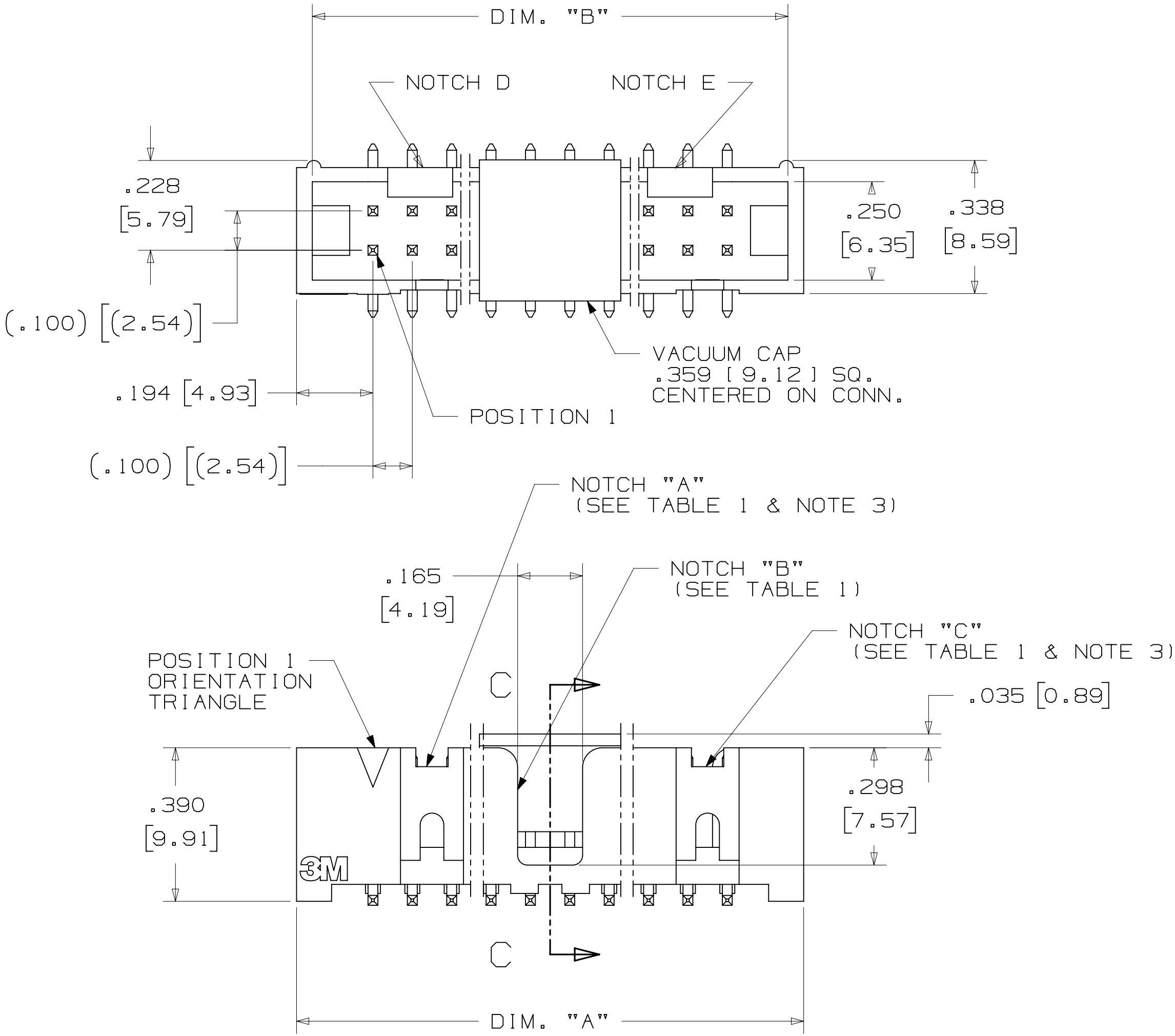
N25XX-6VOC-XX-XX

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 ±	MILLIMETERS 0 ±.3 .00 ±.13 .000 ±	ANGLES	
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MAX SURFACE ROUGHNESS	12.5 SURFACES	MARKED ONLY		
DIVISION Interconnect Solutions		DIVISION CODE EMSD		DATE AUG 11, 2014		
CAGE NUMBER		SIZE		DRAWING NO. D78-5100-0770-7		
MODEL 2500 SERIES		DET		YES NO SHT 4 OF 5		
N 68908		AUG 02, 2016		JNC SC		
M 56068		AUG 11, 2014		JNC RS		
REV		ECO		ISSUE DATE AND DESCRIPTION		
CHKD		DATE		DATE		
APPR		R. SCHERER		DATE SEP 05, 2014		
3M		St. Paul, MN 55144		© 3M COPYRIGHT 2016		
TITLE		HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA				

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

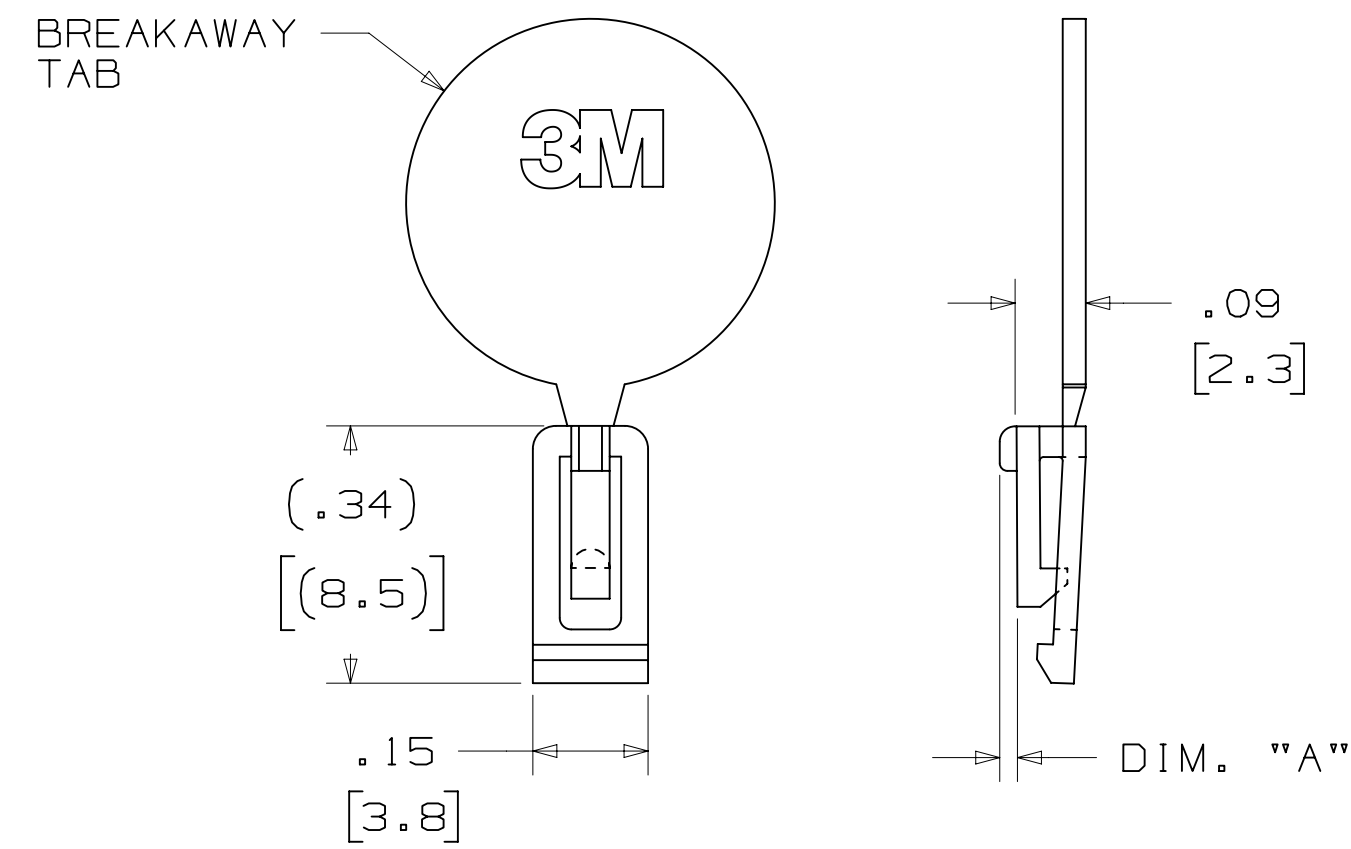
PART CUSTOMIZATION

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.

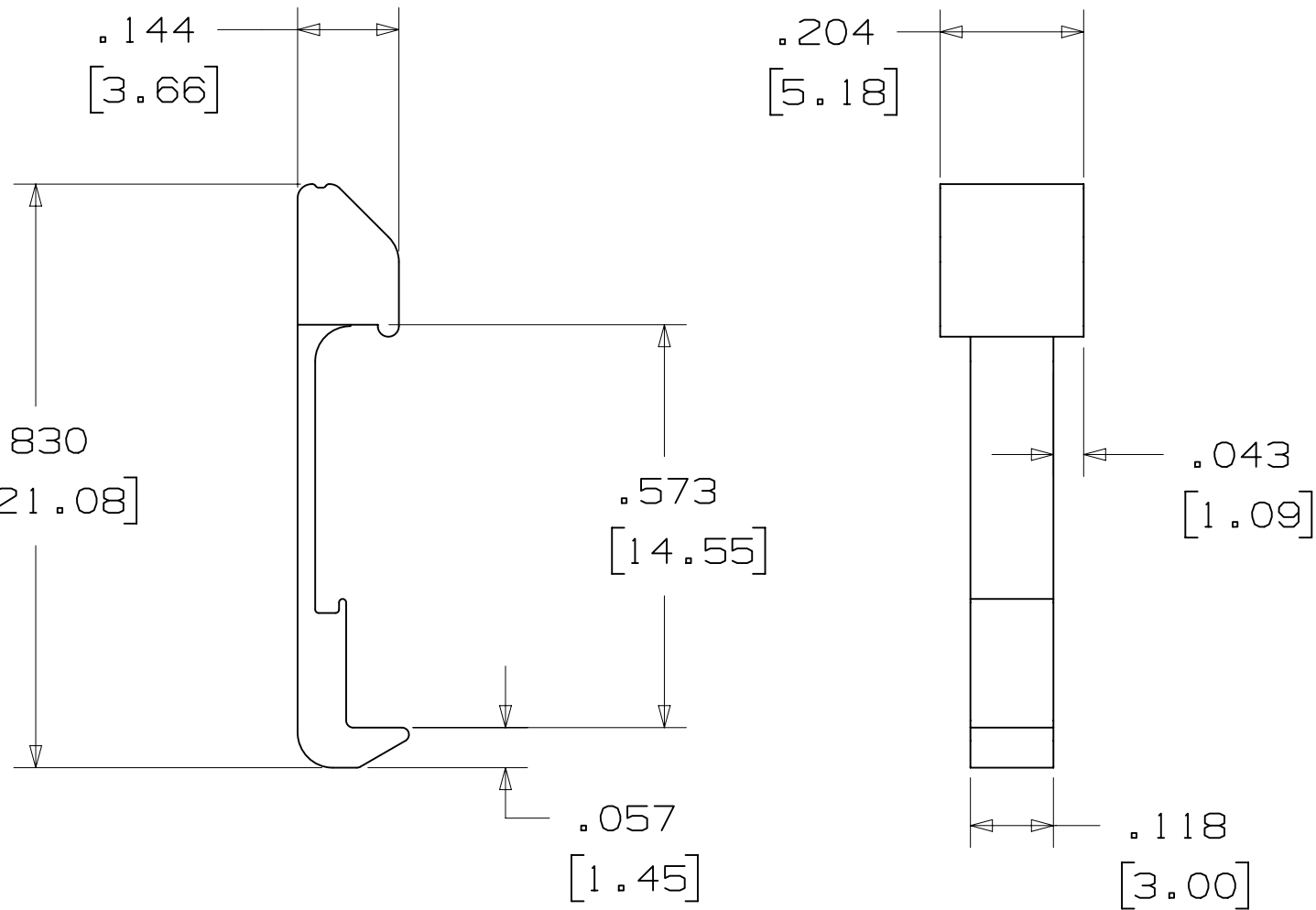
POLARIZING KEY



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

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

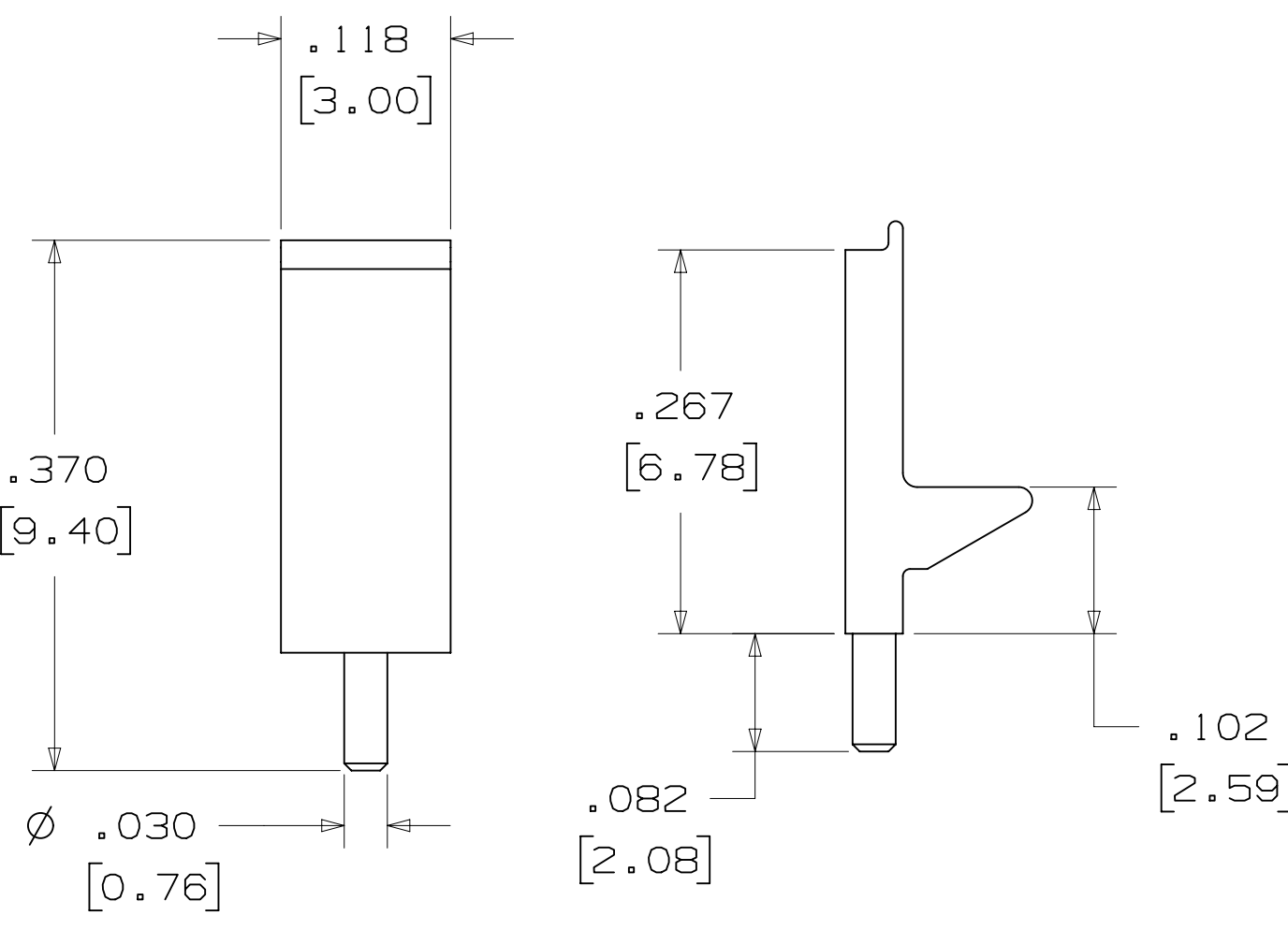
LOW PROFILE LATCH



PART NO.	MATERIAL	COLOR
3505-33B	NYLON	BLACK

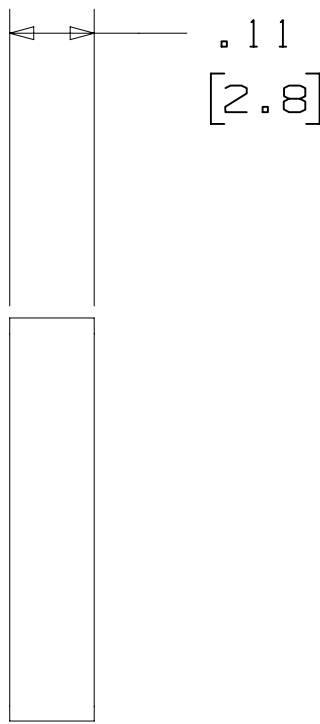
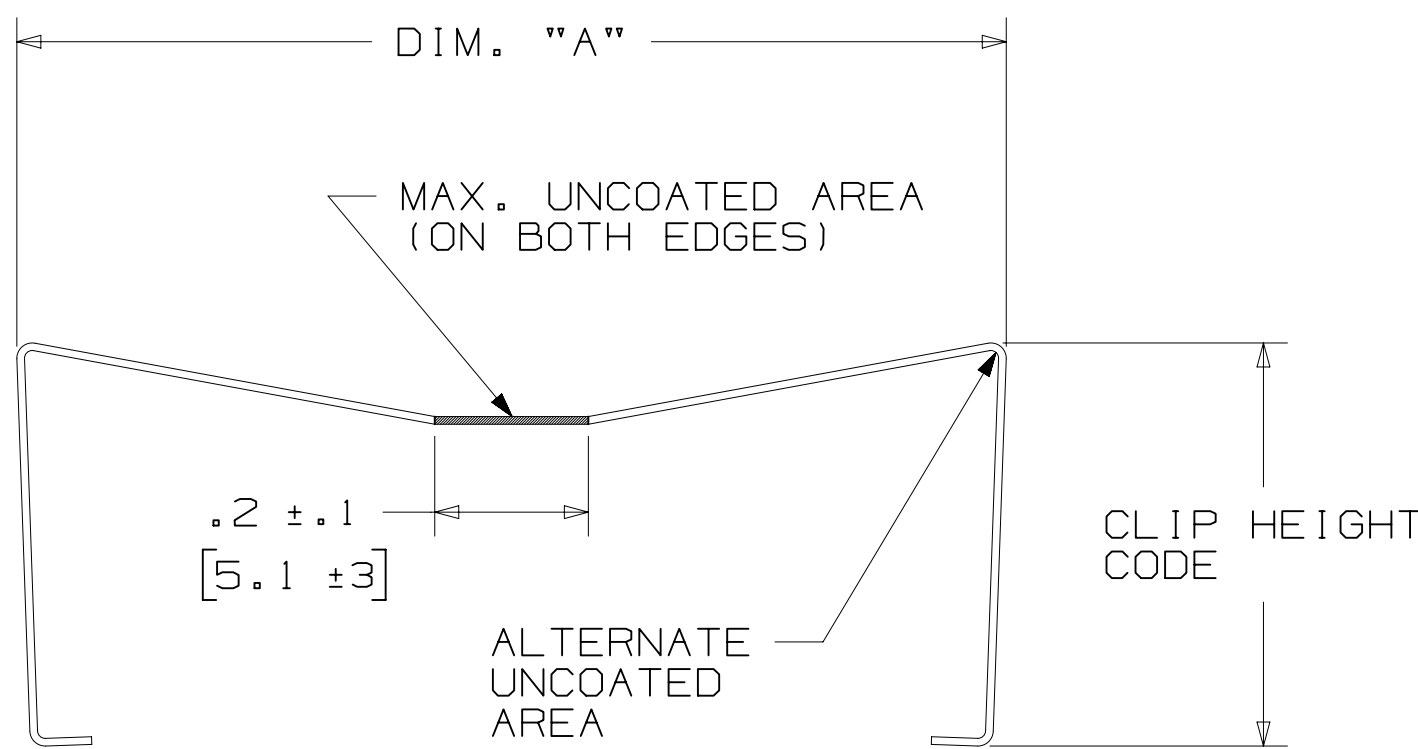
NOTE:
LATCHES NOT COMPATIBLE WITH REFLOW SOLDERING.
ATTACH LATCHES AFTER SOLDERING.

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
800000		CASTIGLIONE		AUG 11, 2014		
		CHKD		DATE	DATE	DATE
				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 ± .0005 .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	1.3 SURFACES	MILLIMETERS 0 ± .3 .00 ± .13 .000 ±		TITLE		
MARKED ONLY		CAGE NUMBER		DRAWING NO.		
		D78-5100-0770-7		REV. N		
		MODEL		2500 SERIES		
		DET		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](#)