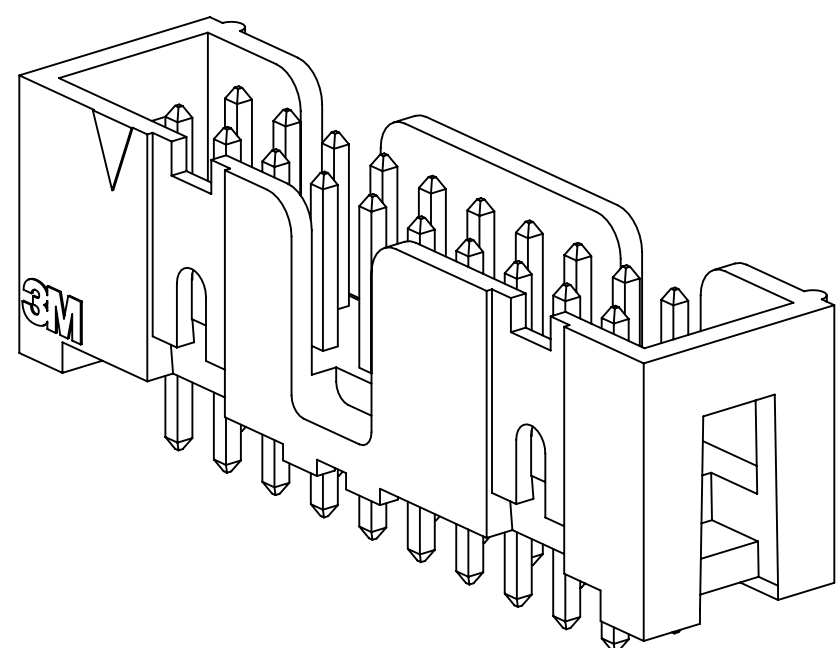
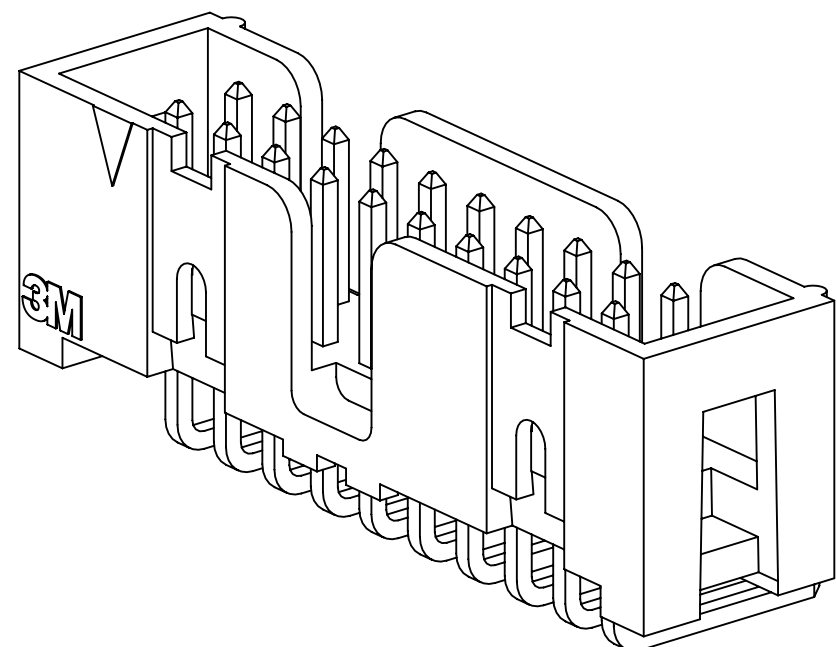


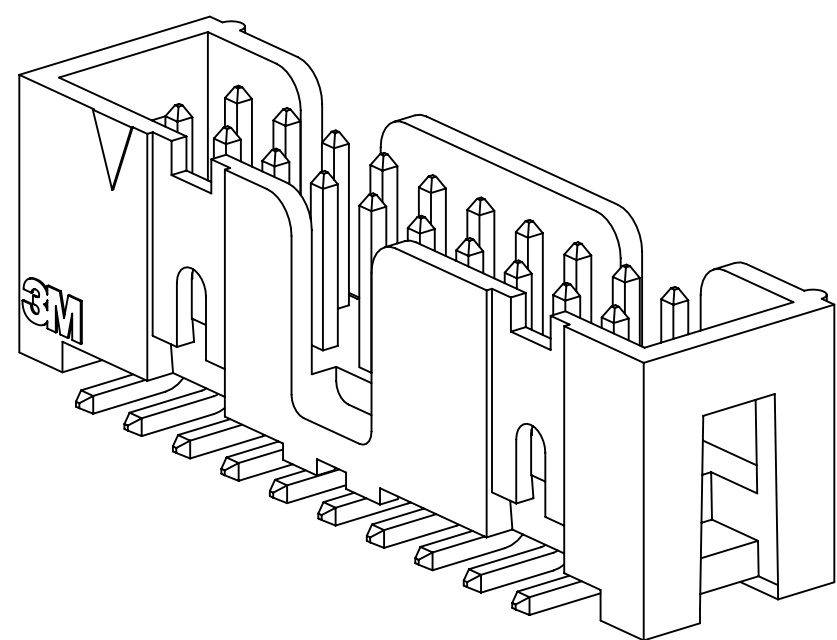
.100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE



25XX-60XX
STRAIGHT VERSION



25XX-50XX
RIGHT ANGLE VERSION



25XX-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: 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)

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

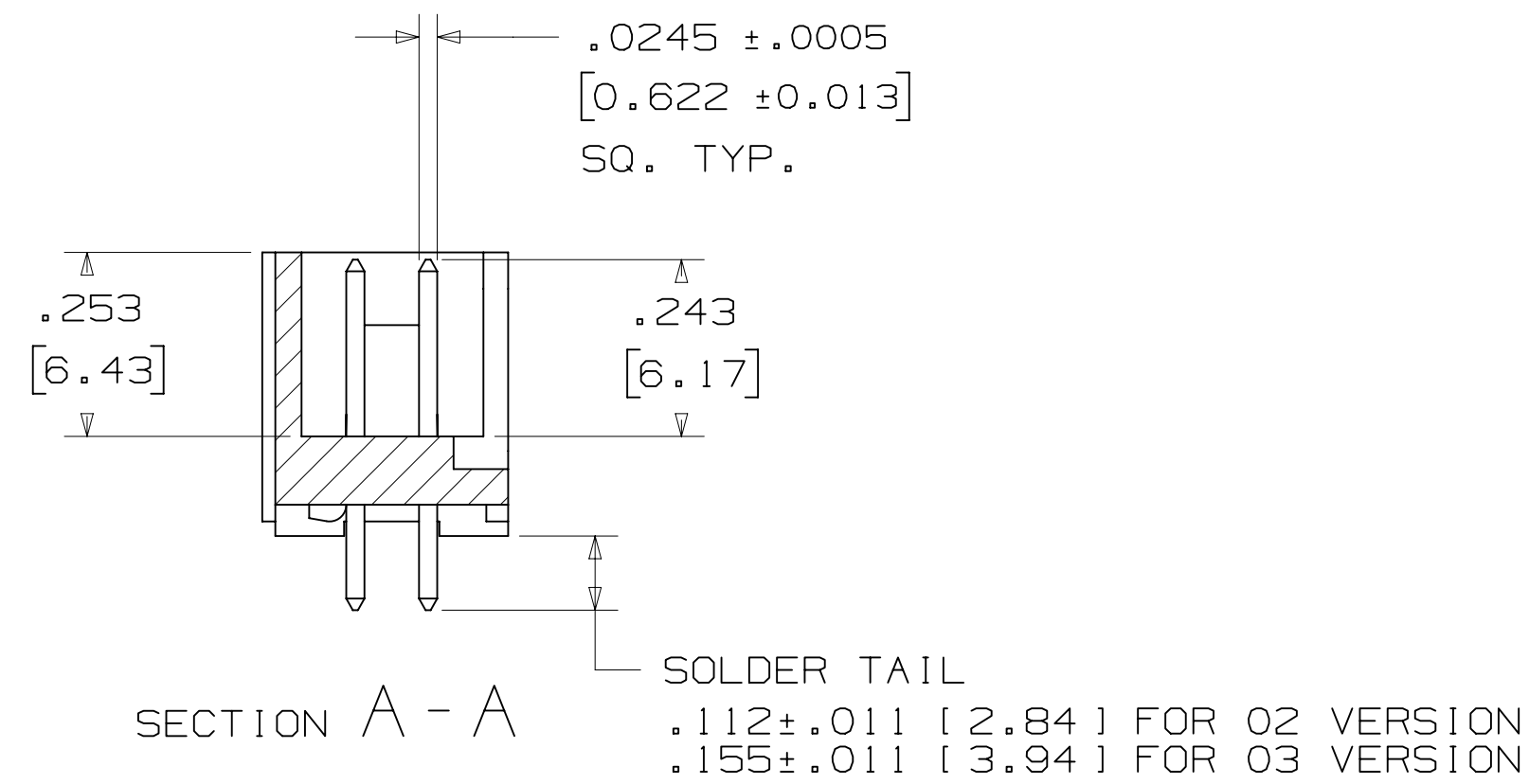
UL[®]
US
UL FILE NO: E68080

DESIGN REFERENCE		NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ADDRESS CODES			DRAFT	CASTIGLIONE	DATE	AUG 11, 2014	DATE	
			CHKD		DATE		APPROV.	R. SCHERER
DIVISION		DIVISION CODE	DATE SEP 05, 2014					
Interconnect Solutions		EMSD	© 3M COPYRIGHT 2016					
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED	3M 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.			
		INCHES .00 ± .00 ± .01 .0000 ± .005 .0000 ±	TITLE HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA					
THIRD ANGLE PROJECTION		MILLIMETERS .00 ± .13 .00 ± .0003 .000 ±	CAGE NUMBER SIZE DRAWING NO. REV. D78-5100-0770-7 N.					
INTERPRET PER ASME Y14.5 - 2009		ANGLES	MODEL 2500 SERIES DET. YES YES NO SHT 1 OF 2					
MAX SURFACE ROUGHNESS								
MIN SURFACES								
✓ UNMARKED SURFACES								

Imaged: N.1 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



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

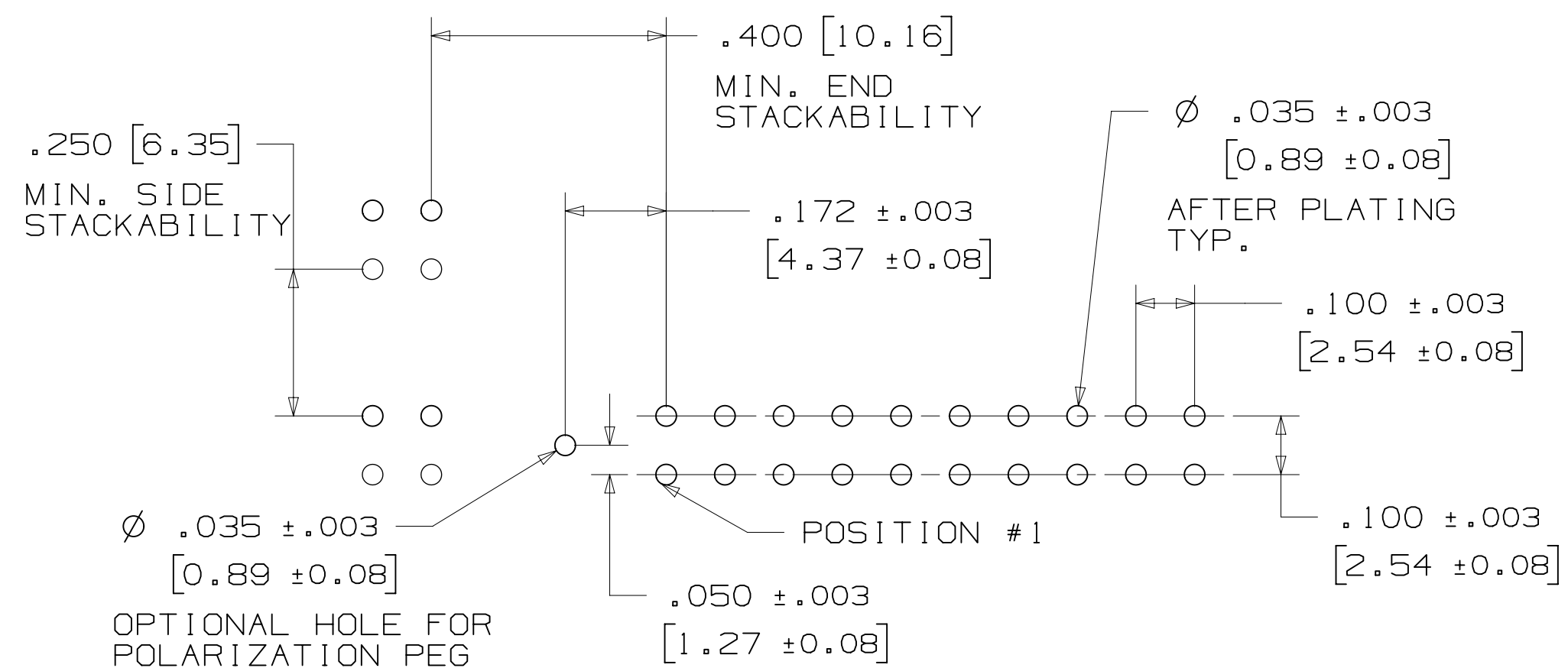
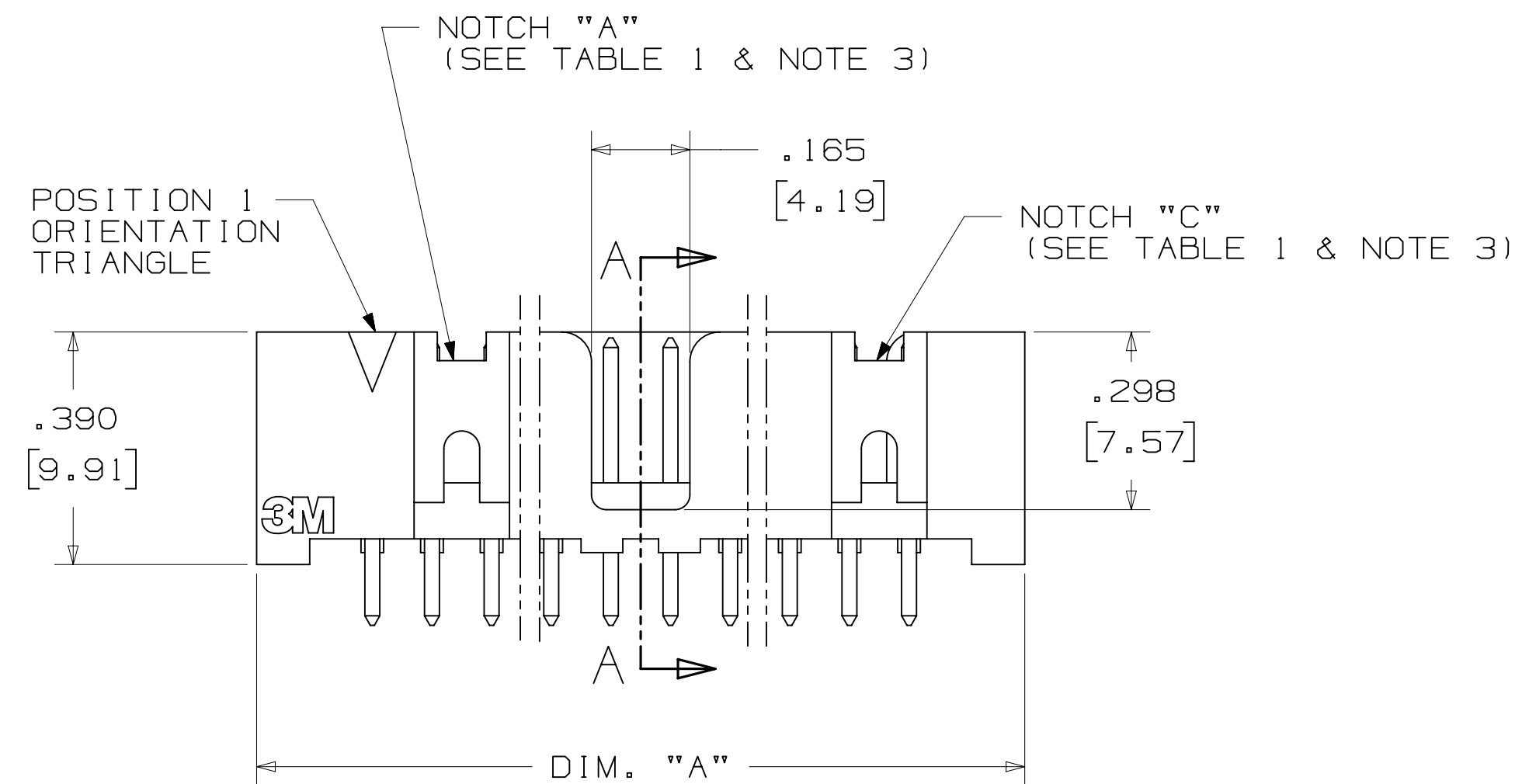
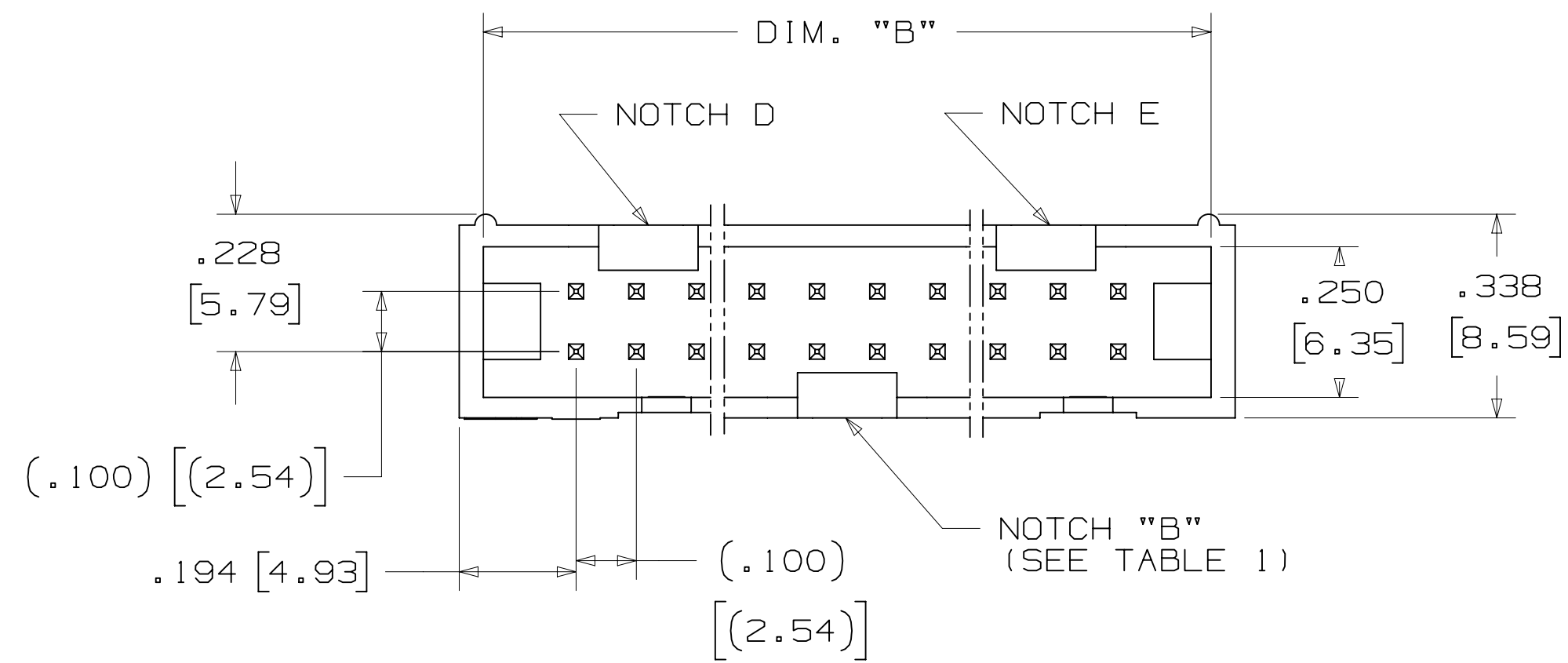
N= HIGH TEMP BLACK (PCT) _____
(RB, UB OR UG PLATING REQ'D)
BLANK= (UB OR UG PLATING)

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:

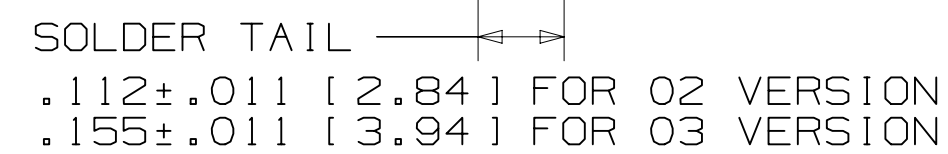
RB = 30 μ " [0.76 μ m] AVG. GOLD
200 μ " [5.08 μ m] MATTE TIN (RIA, E1 & C1 APPLY)
UG = 15 μ " [0.38 μ m] AVG. GOLD
200 μ " [5.08 μ m] 60:40 TIN-LEAD SOLDER TAILS
(RIA E3 & C2 APPLY)
UB = 30 μ " [0.76 μ m] AVG. GOLD
200 μ " [5.08 μ m] 60:40 TIN LEAD SOLDER TAILS
(RIA E3 & C2 APPLY)



RECOMMENDED HOLE PATTERN
SHOWN FROM COMPONENT SIDE

DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE		AND DESCRIPTION		DRFT		CHKD		
ADDRESS		CODES		DRFT		CAST		IGL		ONE		DATE		AUG 11, 2014		
				CHKD				DATE				APPRV.		R. SCHERER		
												DATE		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		© 3M COPYRIGHT 2016 This document and the information it contains are 3M property and may not be reproduced or further distributed without written permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.								
		THIRD ANGLE PROJECTION		INCHES .0000 ± .01 .000 ± .005 .0000 ± .005		MILLIMETERS 0 ± .3 .00 ± .13 .000 ± .13		TITLE HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA								
INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS		MIN SURFACES		CAGE NUMBER		SIZE		DRAWING NO.		REV.				
✓		□ MARKED ONLY		ANGLE		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

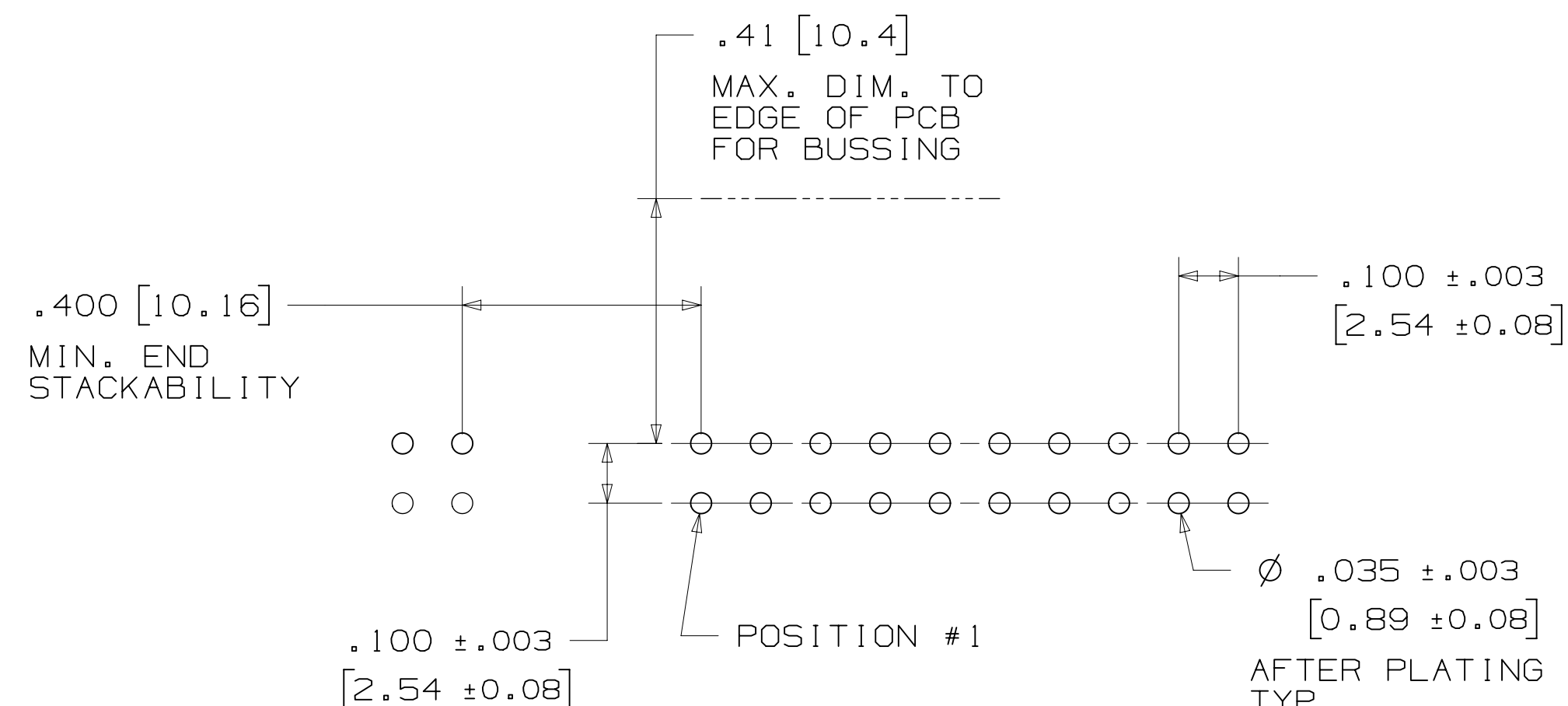
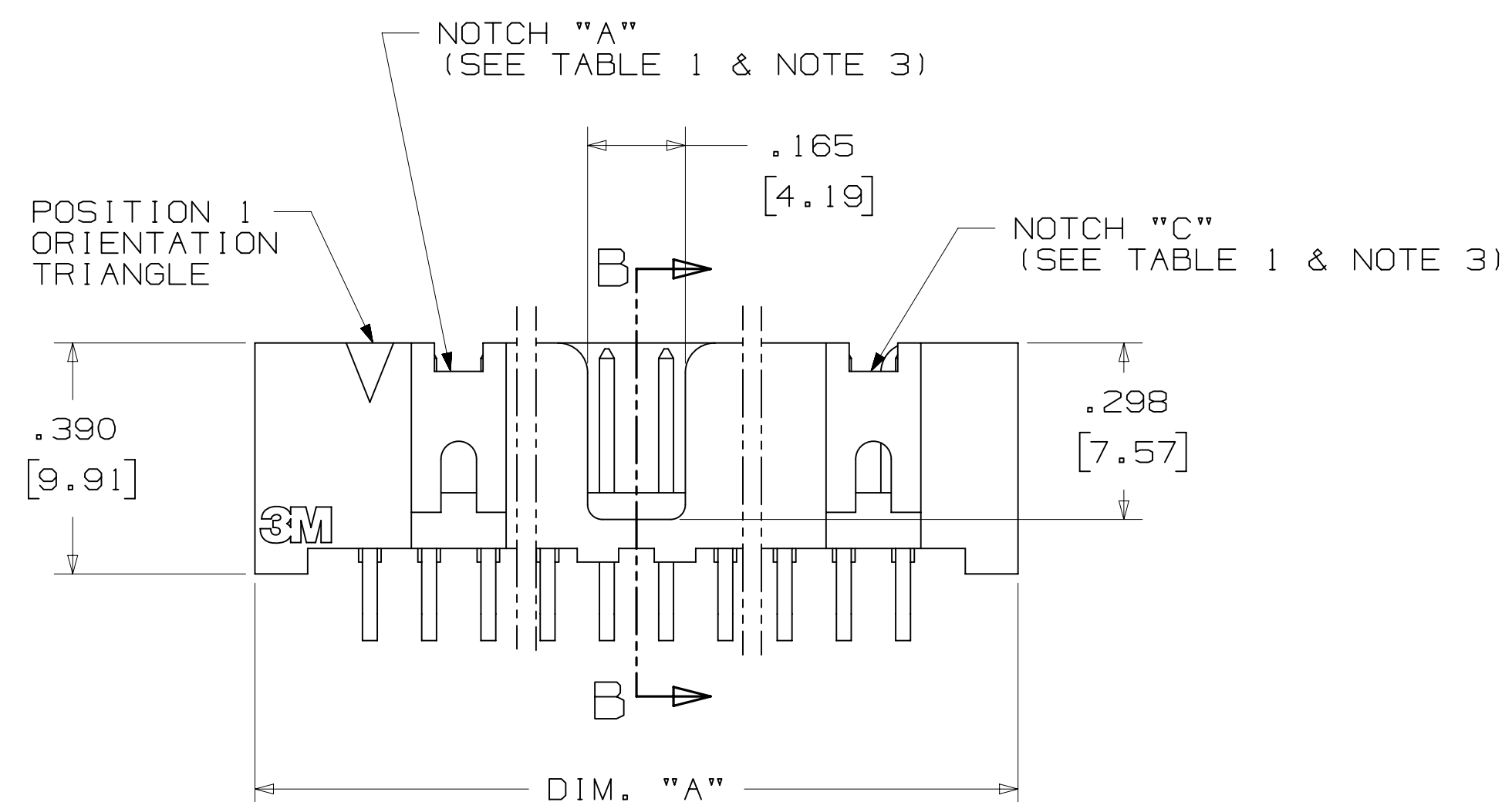
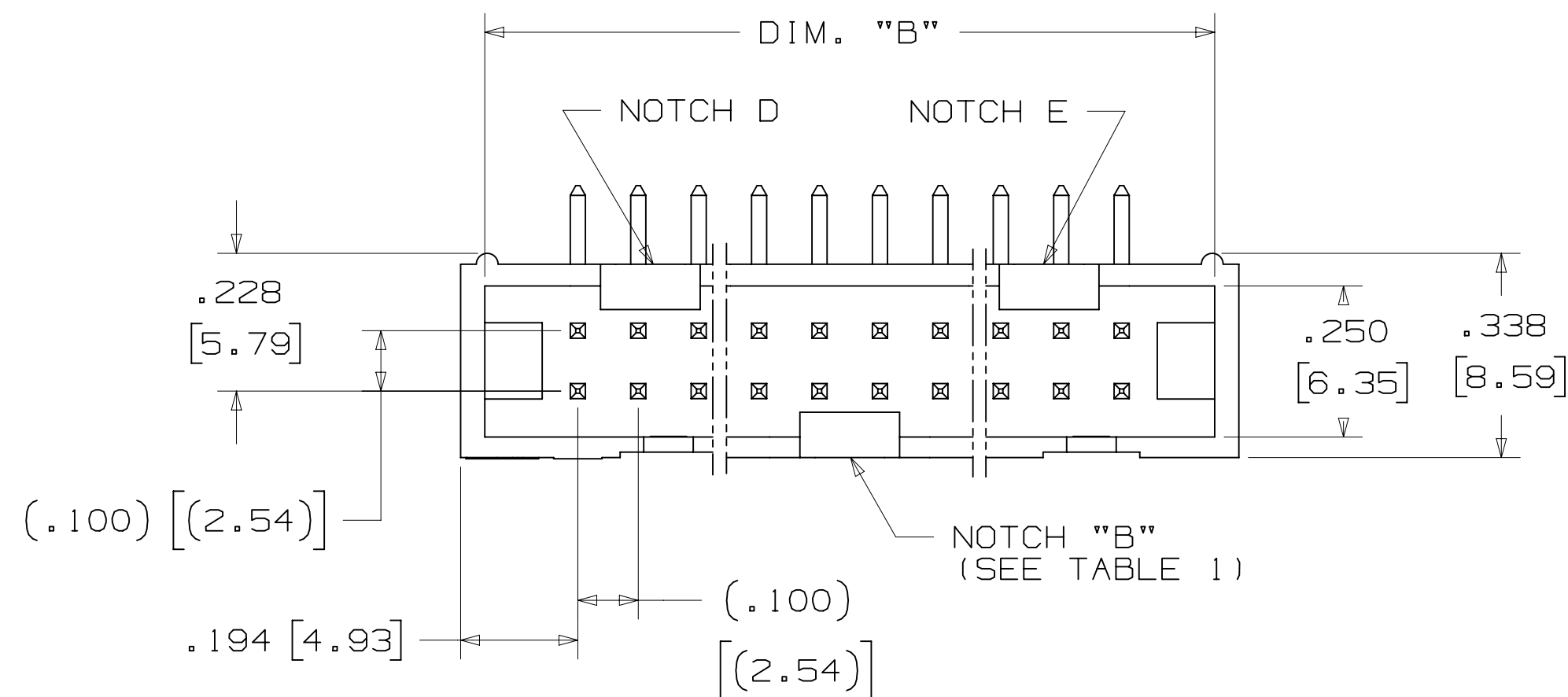
PIN QUANTITY:
(SEE TABLE 1)

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

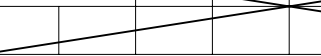
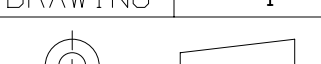
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RB = 30µ" [ 0.76µm ] AVG. GOLD
    200µ" [ 5.08µm ] MATTE TIN (RIA. E1 & C1 APPLY)
UG = 15µ" [ 0.38µm ] AVG. GOLD
    200µ" [ 5.08µm ] 60:40 TIN-LEAD SOLDER TAILS
    (RIA E3 & C2 APPLY)
UB = 30µ" [ 0.76µm ] AVG. GOLD
    200µ" [ 5.08µm ] 60:40 TIN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

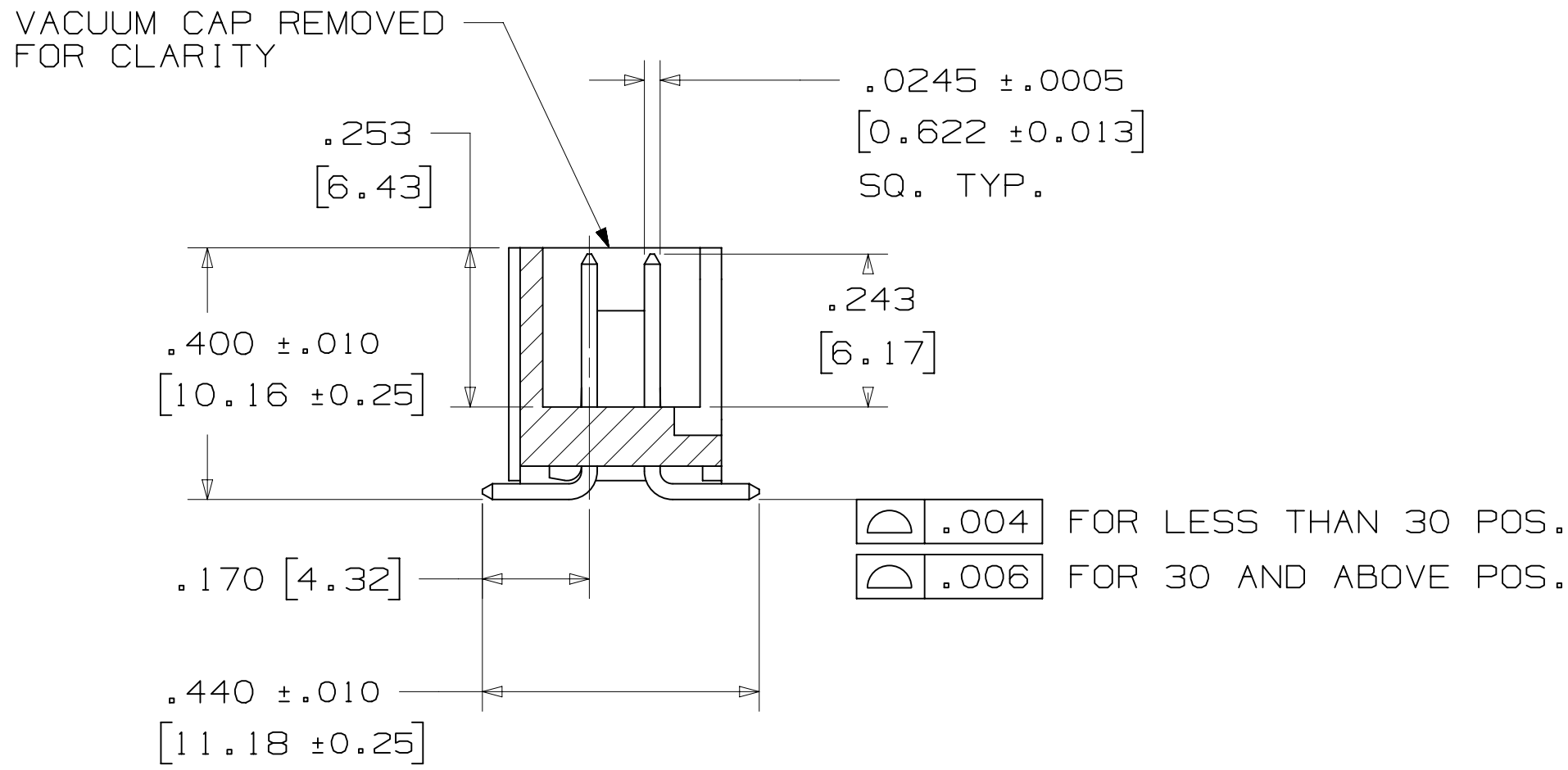
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RECOMMENDED HOLE PATTERN
SHOWN FROM COMPONENT SIDE

DESIGN REFERENCE		NEXT ASSEMBLY		REV.	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ACROSS				DRP	CASTIGLIONE		AUG 11, 2014	MFG	DATE
				CHKD			DATE	APPR.	DATE
								R. SCHERER	SEP 05, 2014
DIVISION		DIVISION CODE				© 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.			
Interconnect Solutions		EMSD							
DO NOT SCALE		TOLERANCES EXCEPT AS NOTED							
DRAWING		INCHES							
		.00 ± .01 .000 ± .005 .0000 ±		TITLE		HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA			
THIRD ANGLE PROJECTION		MILLIMETERS		CAGE NUMBER					
INTERPRET PER ASME Y14.5 - 2009		.00 ± .3 .00 ± .13 .000 ±		SIZE					
MAX SURFACE ROUGHNESS MAX SURFACES ☒ MARKED ONLY		ANGLES		DRAWING NO.					
				MODEL		D 078-5100-0770-7		REV. N	
				2500 SERIES		DET. LISTS ☐ YES ☒ 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

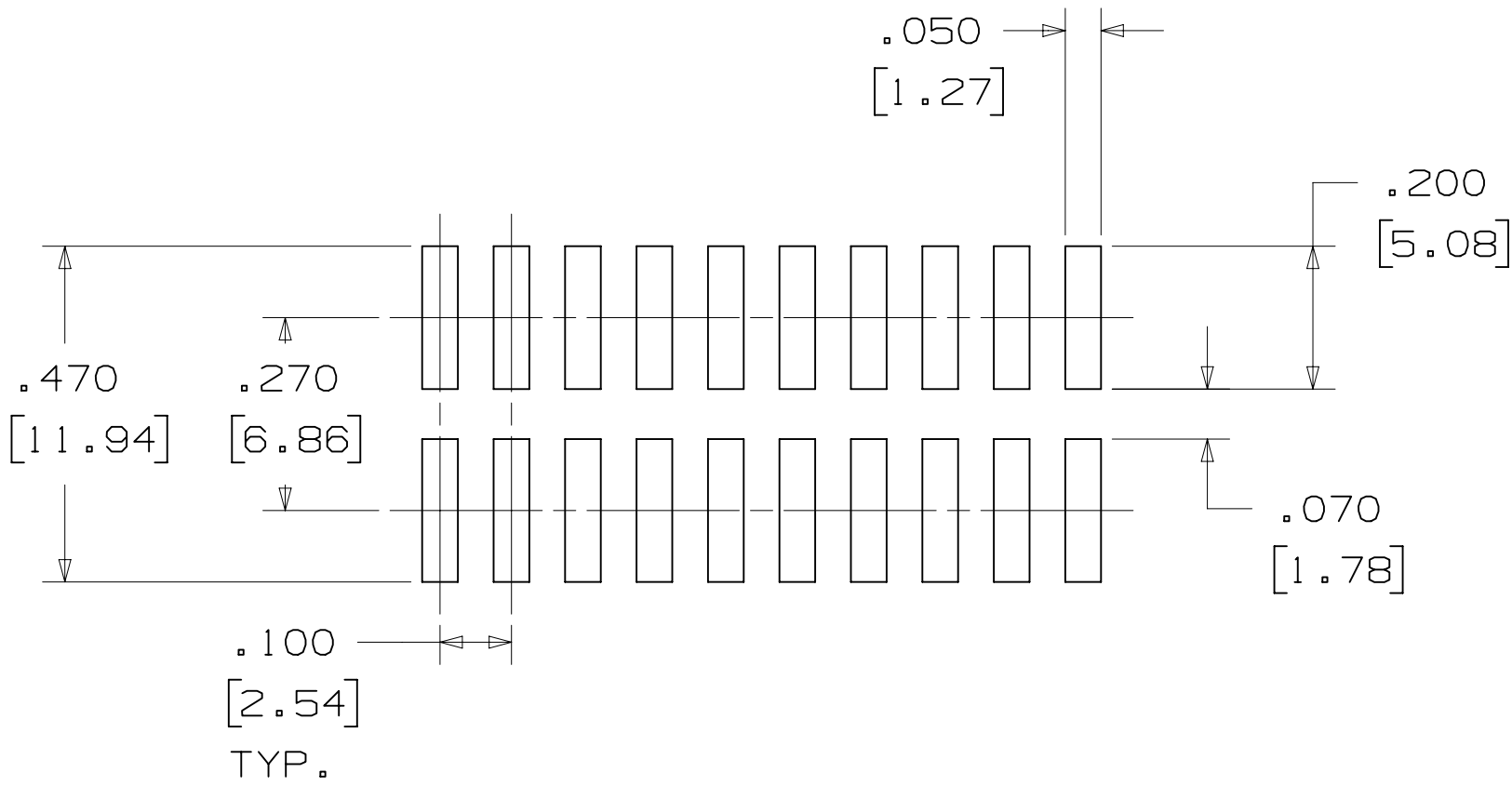
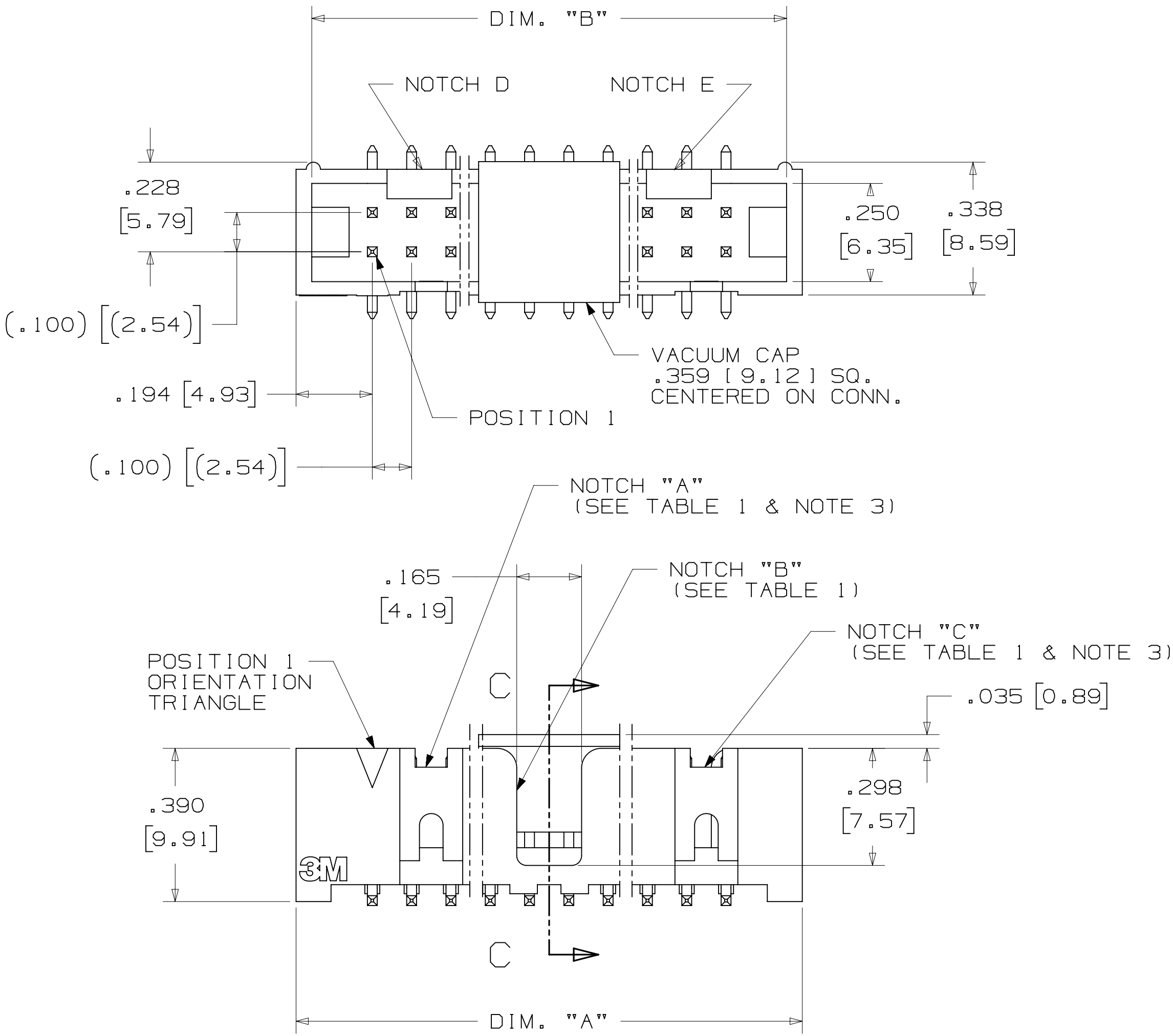
N25XX-6VOC-XX-XX

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
XREF CODES		DIVISION CODE		CHKD	DATE	DATE	DATE	DATE	DATE
DIVISION		EMSD		CHKD	DATE	DATE	DATE	DATE	DATE
Interconnect Solutions		EMSD		CHKD	DATE	DATE	DATE	DATE	DATE
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		MAX SURFACE ROUGHNESS		DET SURFACES		MARKED ONLY	
CAGE NUMBER		SIZE		DRAWING NO.		REV.		DET	
D78-5100-0770-7		N		SHT 4 OF 5		YES		NO	
MODEL		2500 SERIES		LISTS		YES		NO	

N	68908	AUG 02,2016	JNC	SC
M	56068	AUG 11,2014	JNC	RS
REVISE DIM ON SHT2 & CLIP CHART ON SHT5		REVISED AND REDRAWN		
ISSUE DATE AND DESCRIPTION		DATE		
AUG 11,2014		SEP 05,2014		
APPR		R. SCHERER		
CHKD		DATE		
AUG 11,2014		SEP 05,2014		

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TITLE

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

CAGE NUMBER

D78-5100-0770-7

SIZE

N

DRAWING NO.

SHT 4 OF 5

3M™ FOUR-WALL HEADER, 2500 SERIES

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

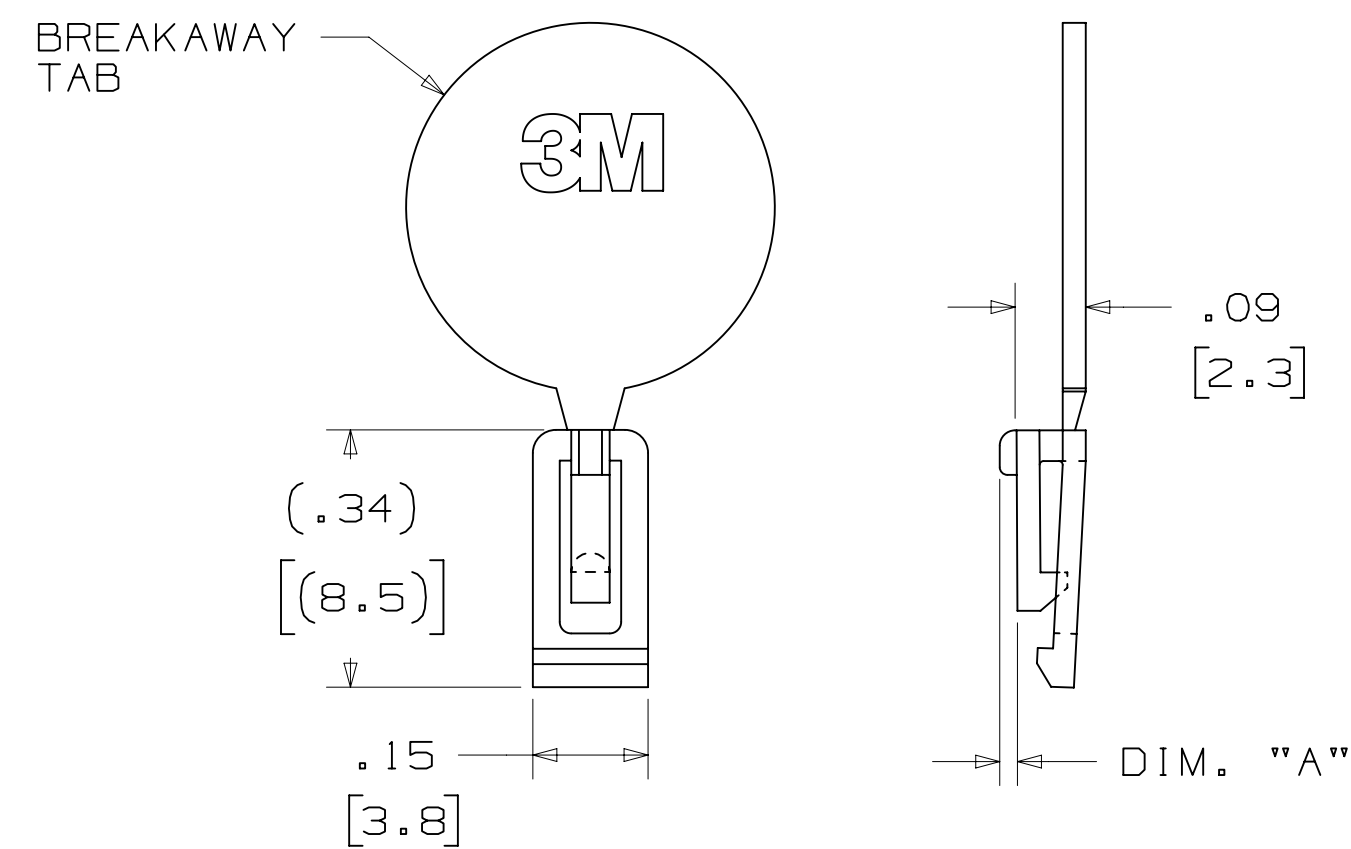
PART CUSTOMIZATION

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.
```

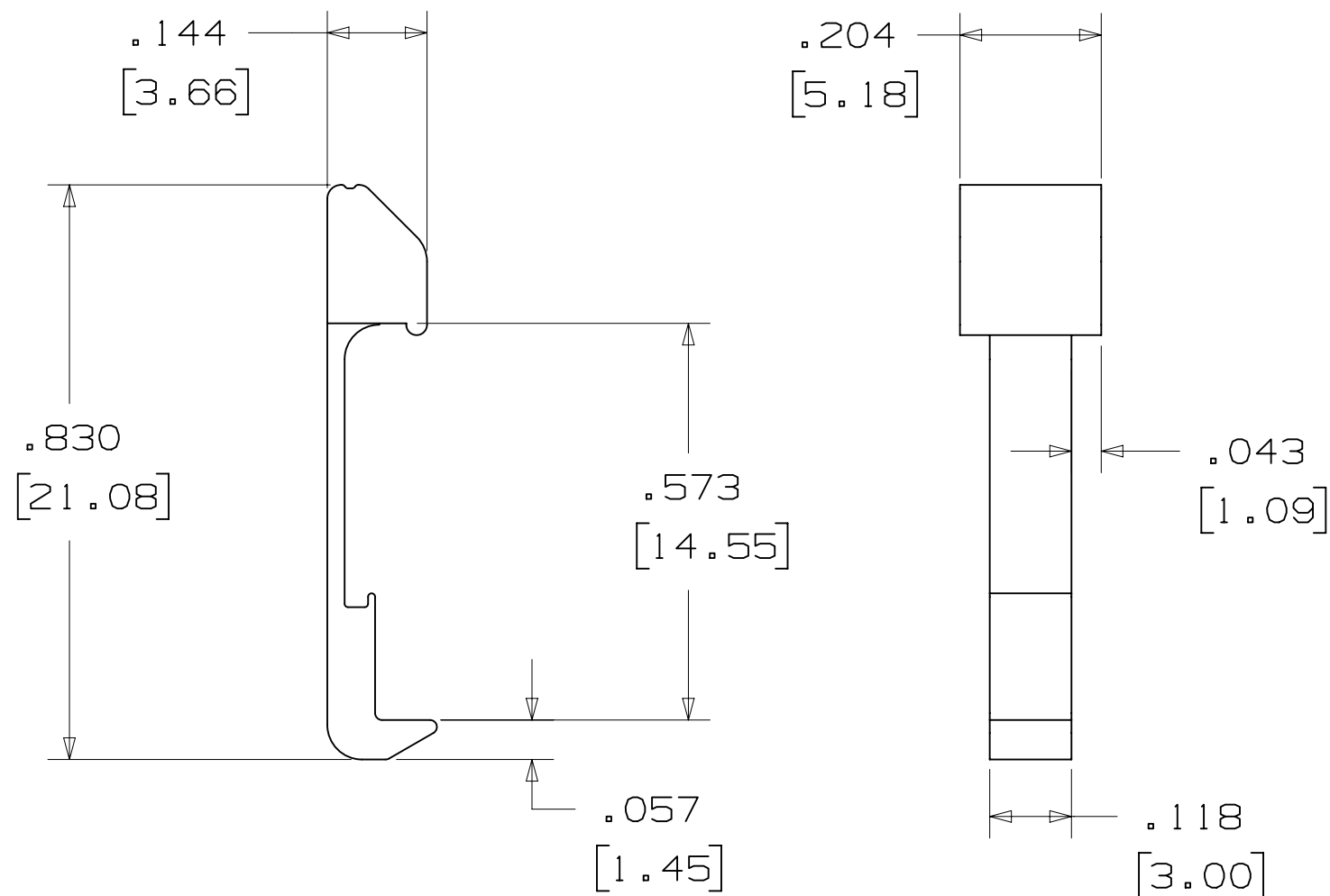
## POLARIZING KEY



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

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

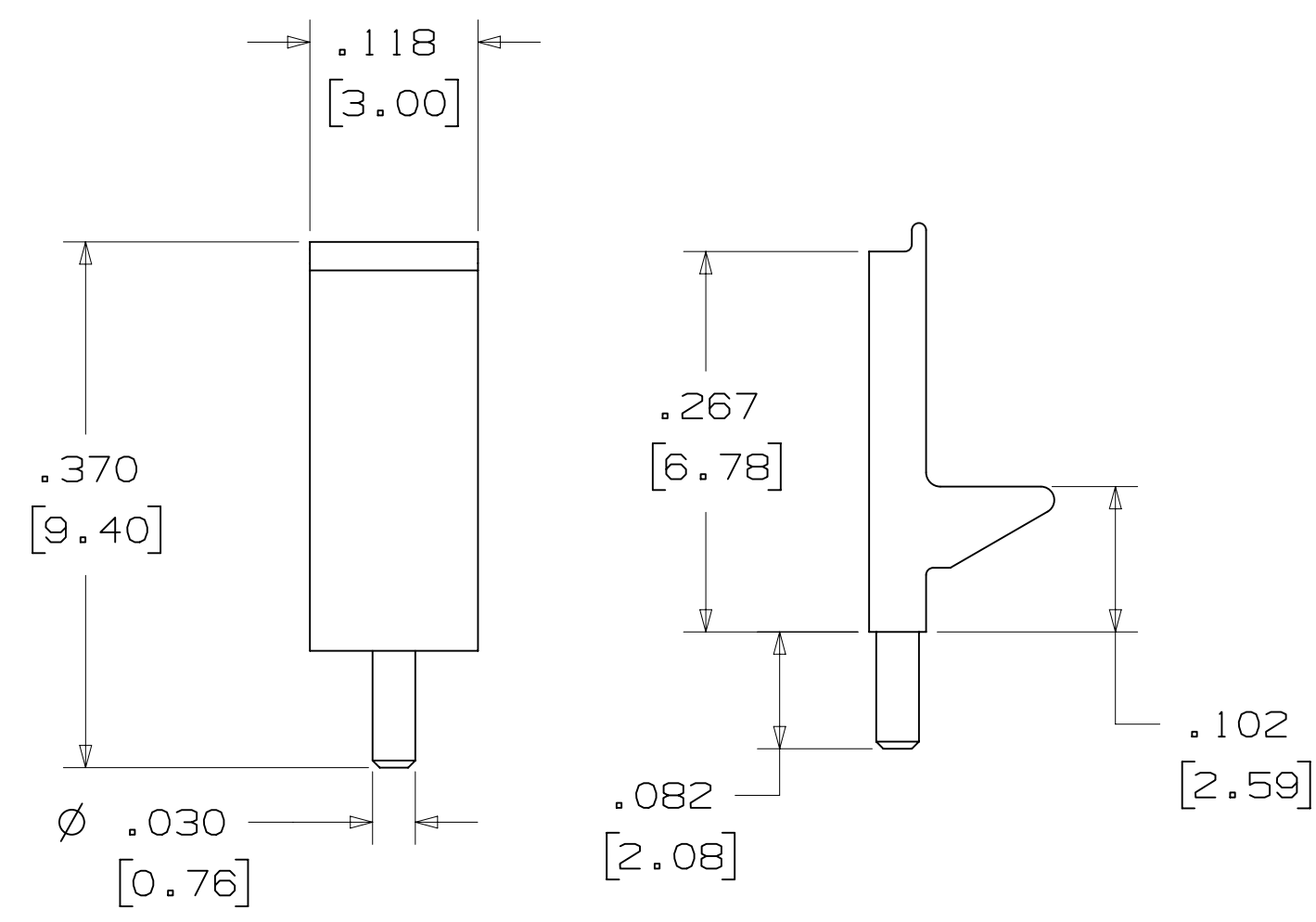
## LOW PROFILE LATCH



|          |          |       |
|----------|----------|-------|
| PART NO. | MATERIAL | COLOR |
| 3505-33B | NYLON    | BLACK |

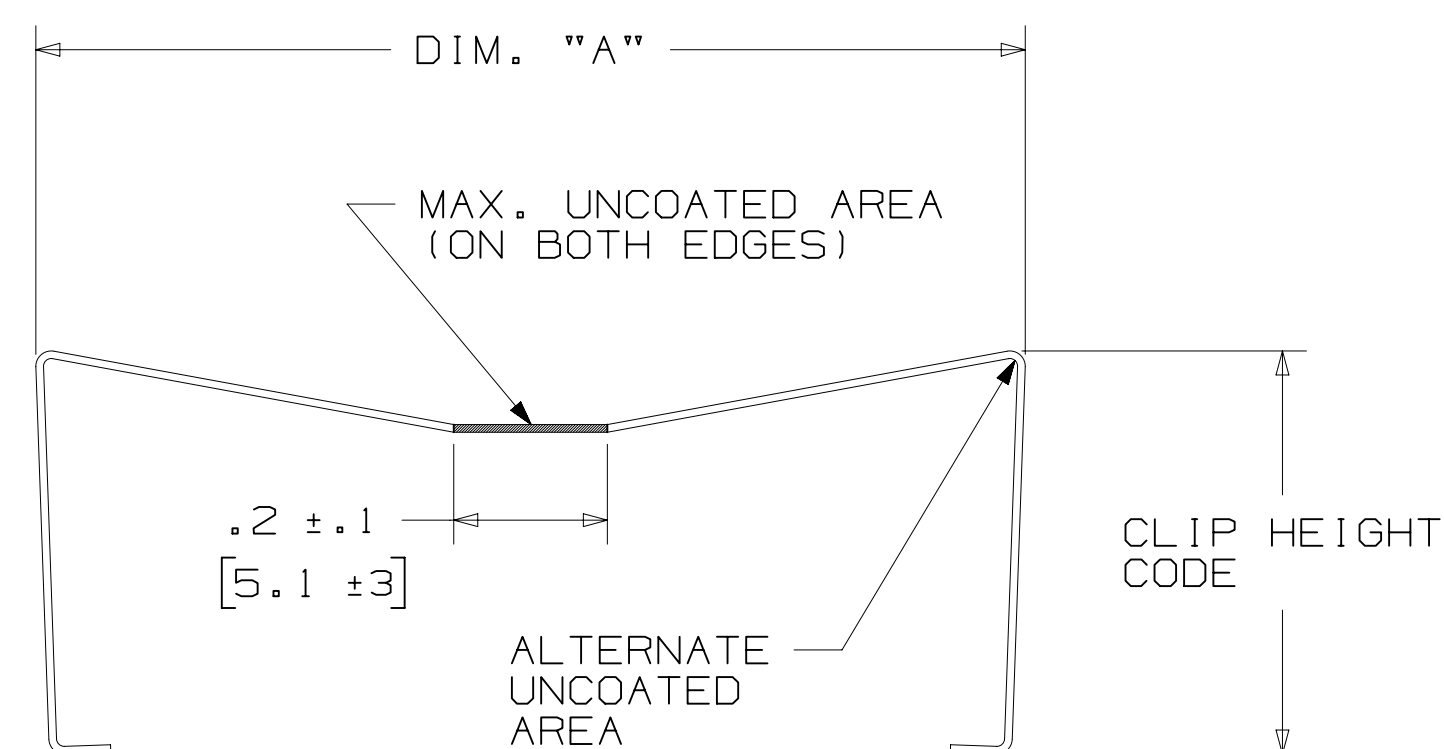
NOTE:  
LATCHES NOT COMPATIBLE WITH REFLOW SOLDERING.  
ATTACH LATCHES AFTER SOLDERING.

## POLARIZING POST



|          |          |       |
|----------|----------|-------|
| PART NO. | MATERIAL | COLOR |
| 3201-3   | PCT      | BLACK |

## SHORT/LONG SOCKET RETAINER CLIP



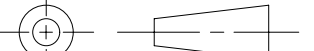
| PIN | QTY. | DIM. | "A"      |
|-----|------|------|----------|
| 06  |      |      | N/A      |
| 08  |      |      | N/A      |
| 10  |      | .81  | [ 20.6 ] |
| 14  |      | 1.02 | [ 25.9 ] |
| 16  |      | 1.12 | [ 28.4 ] |
| 20  |      | 1.32 | [ 33.5 ] |
| 24  |      | 1.52 | [ 38.7 ] |
| 26  |      | 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 _____ |
| 0 = .31 [ 7.9 ] FOR SOCKETS<br>WITHOUT STRAIN RELIEF | (SEE TABLE)     |
| 1 = .53 [ 13.5 ] FOR SOCKETS<br>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         |
|-----------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------|
| ACROSS CODES                                                                                        |               | DRFT                                                                                      | CAS | GLIONE                                                                                                                                                                                                                 | DATE   | AUG 11, 2014 |
|                                                                                                     |               | CHKD                                                                                      |     | DATE                                                                                                                                                                                                                   | APPRV. | R. SCHERER   |
|                                                                                                     |               |                                                                                           |     |                                                                                                                                                                                                                        | DATE   | SEP 05, 2014 |
| DIVISION                                                                                            |               | DIVISION CODE                                                                             |     | © 3M COPYRIGHT 2016                                                                                                                                                                                                    |        |              |
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| DO NOT SCALE DRAWING                                                                                |               | TOLERANCES EXCEPT AS NOTED                                                                |     |                                                                                                                                   |        |              |
| SCALE 4/1                                                                                           |               | INCHES                                                                                    |     | <div> <div>3M Center</div> <div>St. Paul,</div> <div>MN 55144</div> </div>                                                                                                                                             |        |              |
|                |               | THIRD ANGLE PROJECTION                                                                    |     | TITLE                                                                                                                                                                                                                  |        |              |
| INTERPRET PER ASME Y14.5 - 2009                                                                     |               | MILLIMETERS                                                                               |     | HEADER, 4-WALL,<br>LO-PRO, .100 X .100,<br>SMT, STRAIGHT & RA                                                                                                                                                          |        |              |
| <del>MAX SURFACE ROUGHNESS</del><br><del>MIN SURFACES</del><br><input type="checkbox"/> MARKED ONLY |               | .00 ±<br>.01 ±<br>.005 ±<br>.000 ±<br>.000 ±<br>.0 ±<br>.03 ±<br>.00 ±<br>.13 ±<br>.000 ± |     | CASE NUMBER<br>SIZE<br>DRAWING NO.<br><b>D</b> 78-5100-0770-7                                                                                                                                                          |        | REV. N       |
|                                                                                                     |               | <del>ANGLE</del>                                                                          |     | MODEL<br>2500 SERIES<br>DET. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO<br>SHT 5 OF 5                                                                                                         |        |              |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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