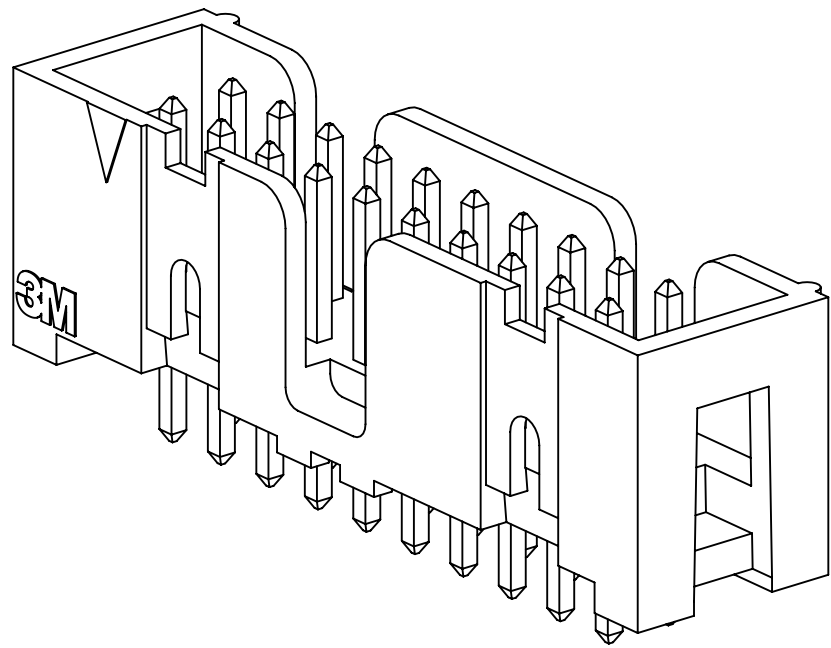
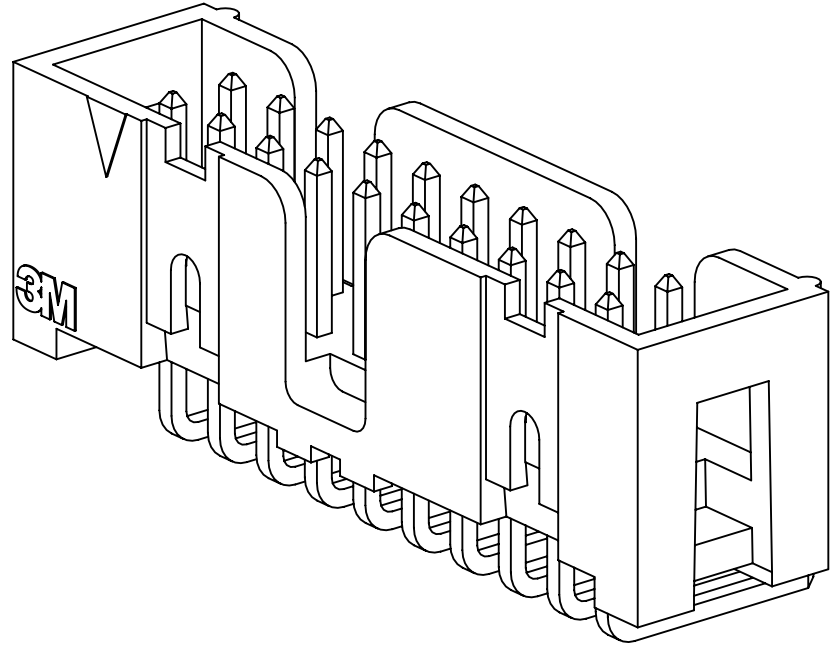


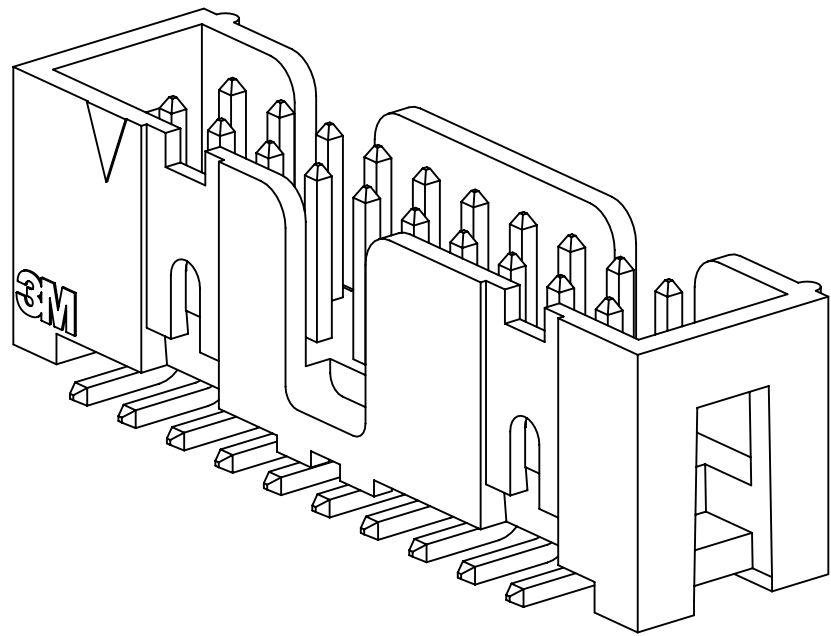
3M™ FOUR-WALL HEADER, 2500 SERIES
.100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE



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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FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

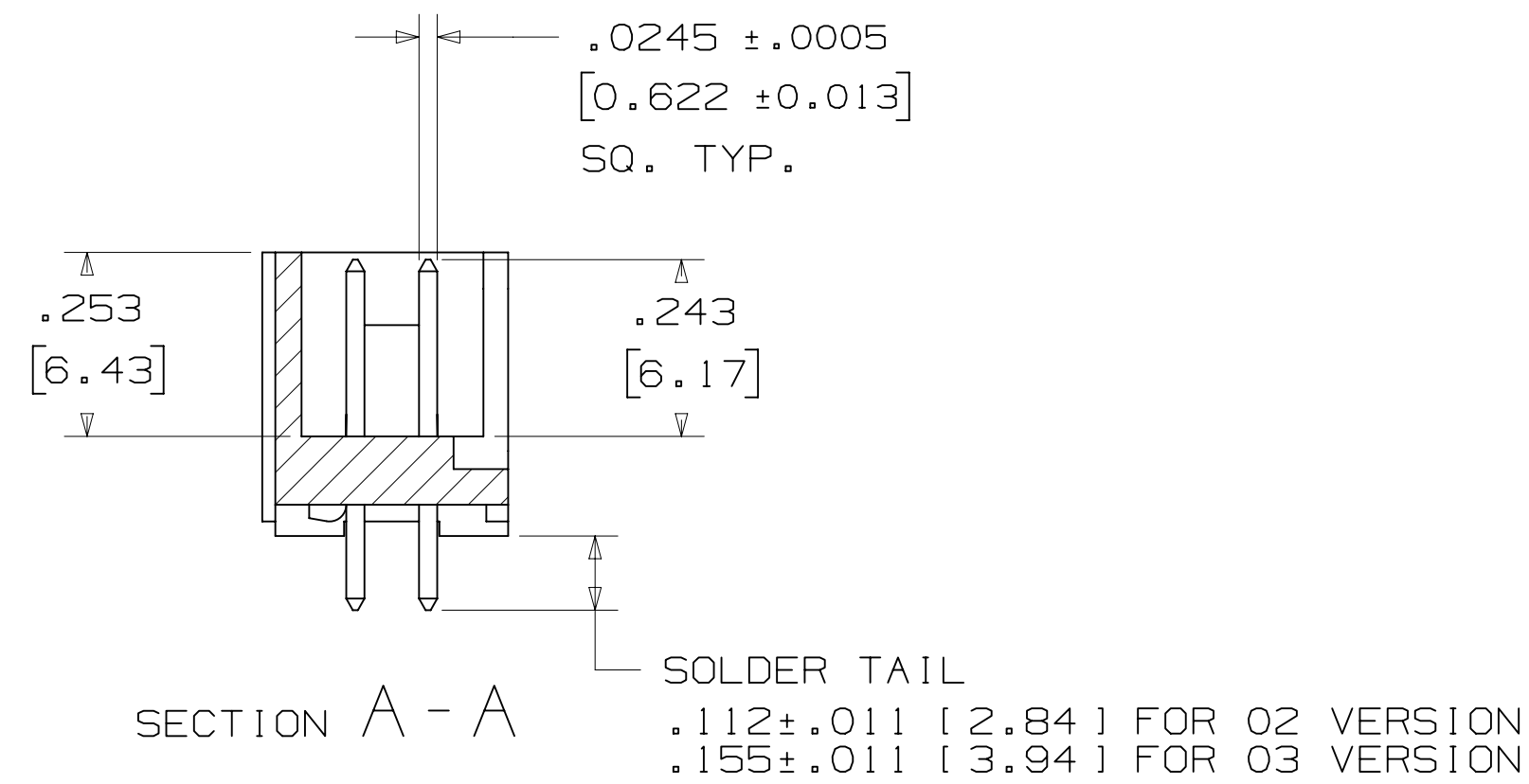
UL **US**
UL FILE NO: E68080

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

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
XXXXX						
XXXXX						
DIVISION	DIVISION CODE	DR	DATE	MFG	DATE	
Interconnect Solutions	EMSD	CASTIGLIONE	AUG 11, 2014	R. SCHERER	SEP 05, 2014	
DO NOT SCALE DRAWING	SCALE 4 1	TOLERANCES EXCEPT AS NOTED	INCHES .0 ± .01 .000 ± .005 .0000 ± .0000			
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS 0 ± .0 .00 ± .13 .000 ± .000	TITILE HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA			
MAX SURFACE ROUGHNESS 12X SURFACES ✓ MARKED ONLY	ANGLES	CAGE NUMBER D 78-5100-0770-7	SIZE N	DRAWING NO. 78-5100-0770-7	REV. N	
MODEL 2500 SERIES			DET LISTS YES NO SHT 1 OF 5			

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)

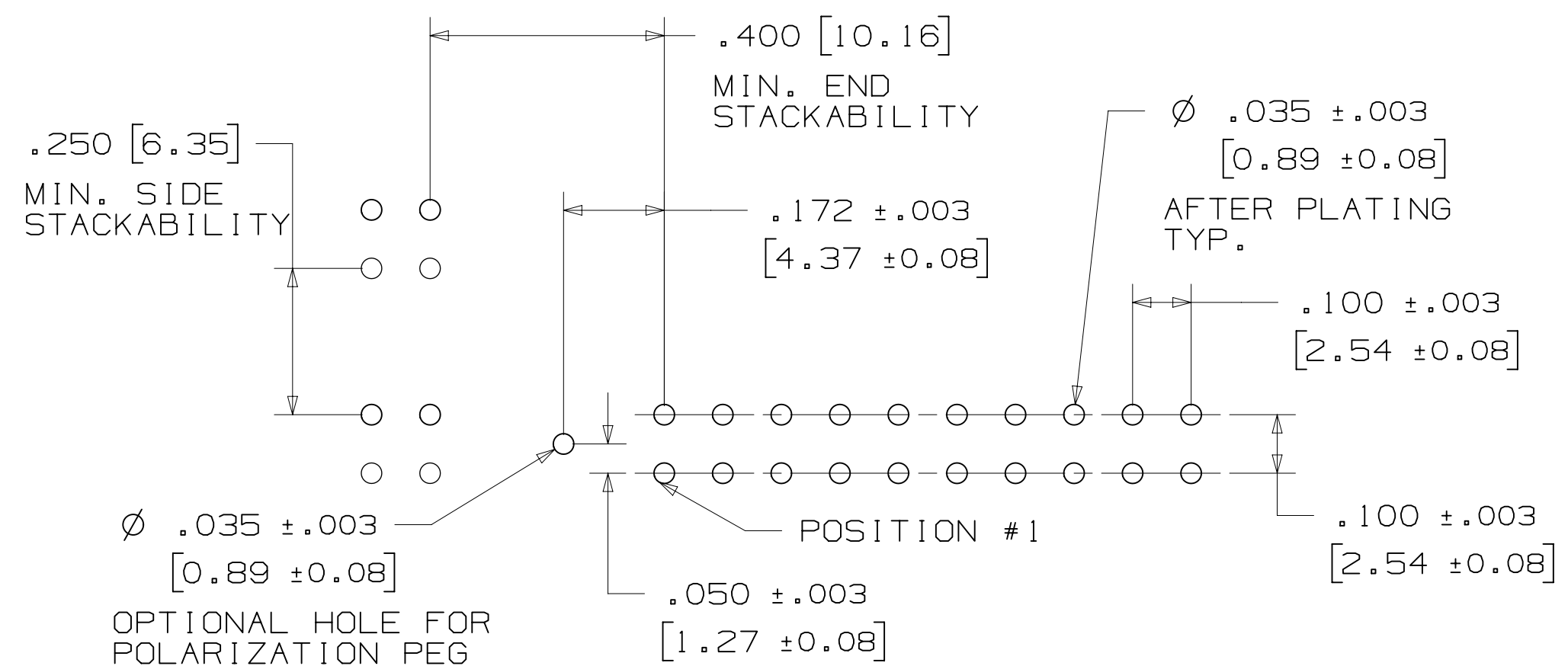
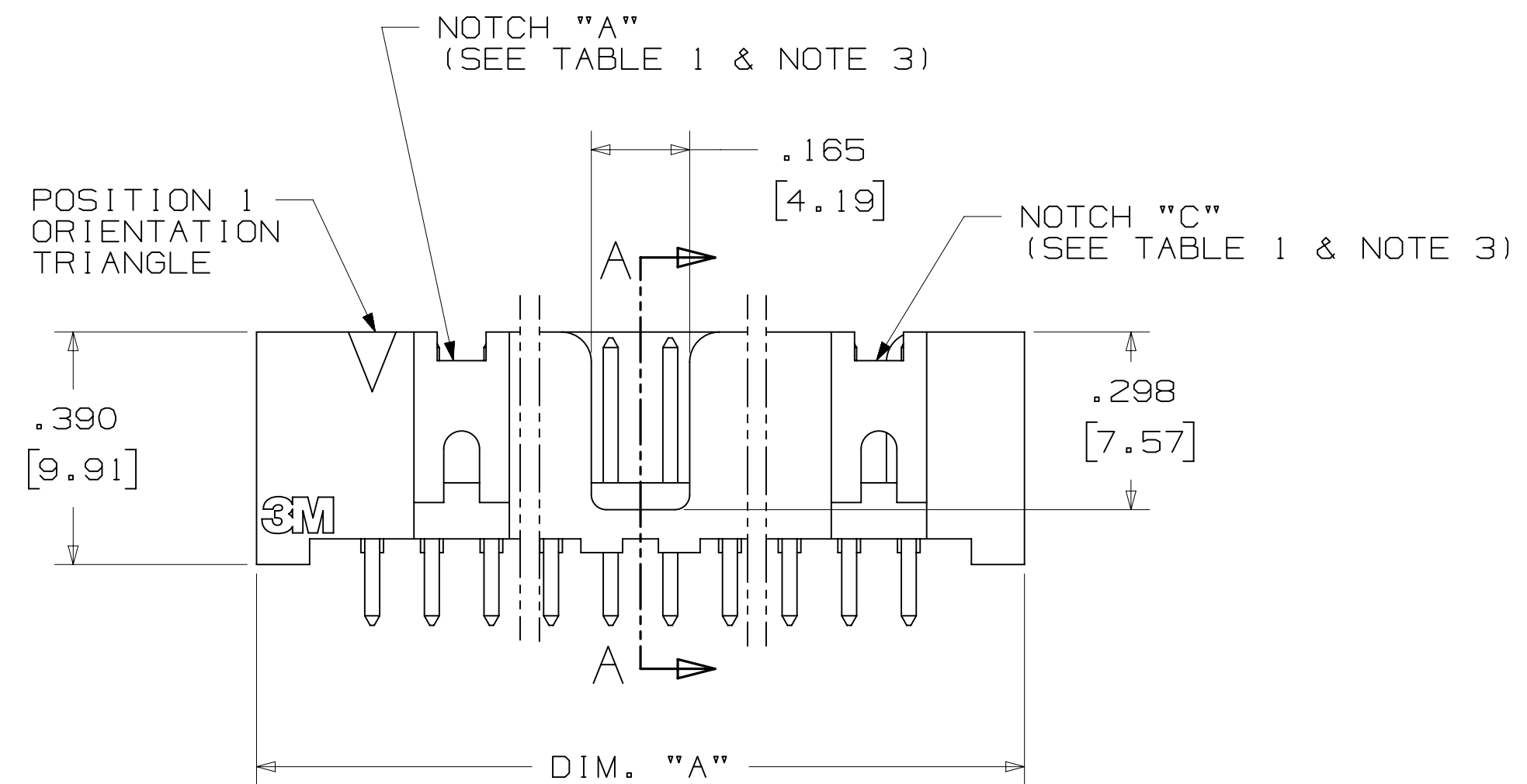
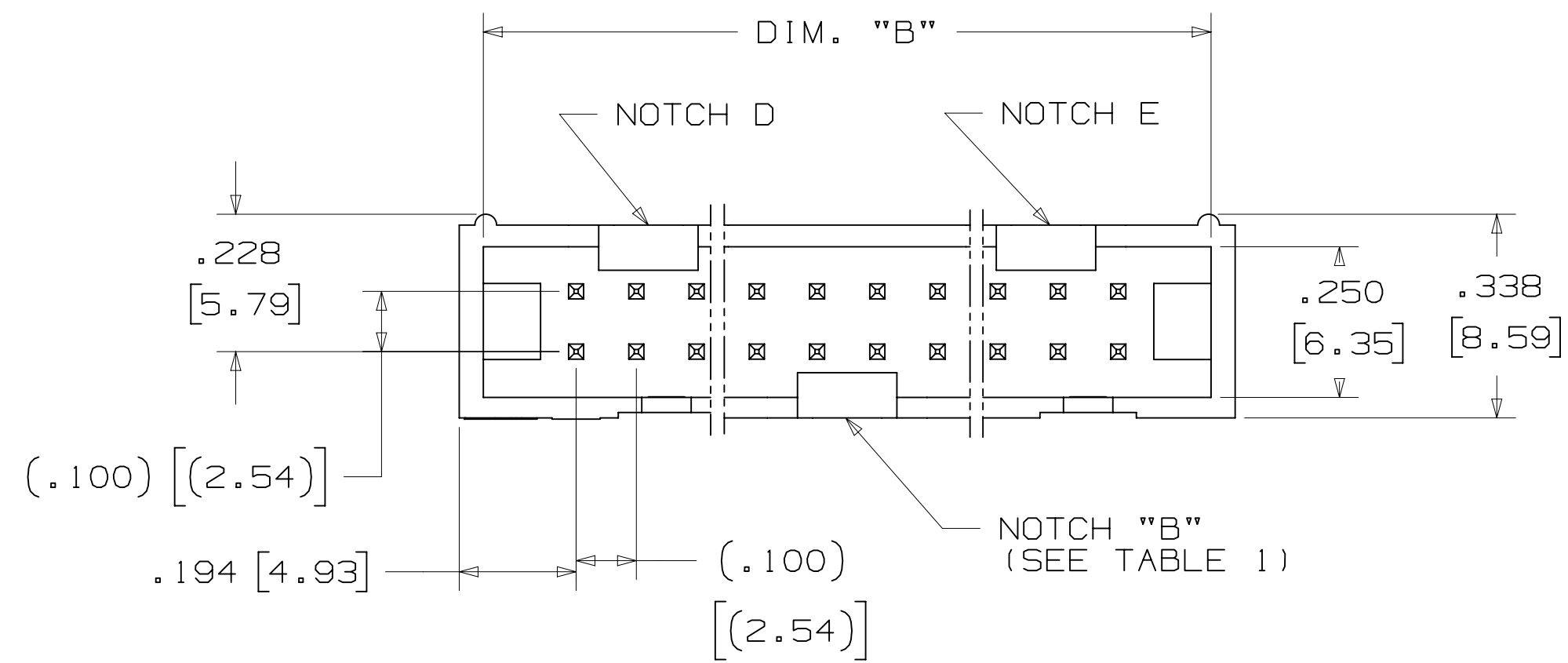
SOLDER TAIL: _____

02 = FOR .062 [1.57] THICK BOARD

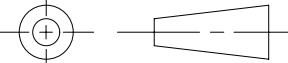
03 = FOR .094 TO .125 [2.39 TO 3.18]
THICK BOARD

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		CASTIGLIONE		DATE		AUG 11, 2014		MFG		DATE	
				CHKD				DATE				APPRV.		DATE	
												R. SCHERER		SEP 05, 2014	
DIVISION				DIVISION CODE											
Interconnect Solutions				EMSD											
DO NOT SCALE DRAWING		SCALE		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.							
		4 1													
				INCHES				TITLE							
THIRD ANGLE PROJECTION				.00 ± .01 .000 ± .005 .0000 ±				HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA							
INTERPRET PER ASME Y14.5 - 2009				MILLIMETERS				CAGE NUMBER SIZE DRAWING NO. D 78-5100-0770-7							
MAX SURFACE ROUGHNESS				.00 ± .13				REV. N							
☒ DIM. SURFACES ☐ MARKED ONLY				.000 ±				MODEL 2500 SERIES DET. LISTS ☐ YES ☒ NO SHT 2 OF 5							
				ANGLE											

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

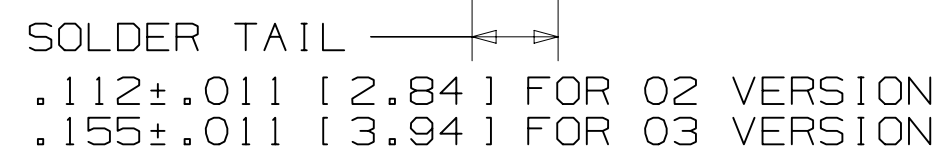
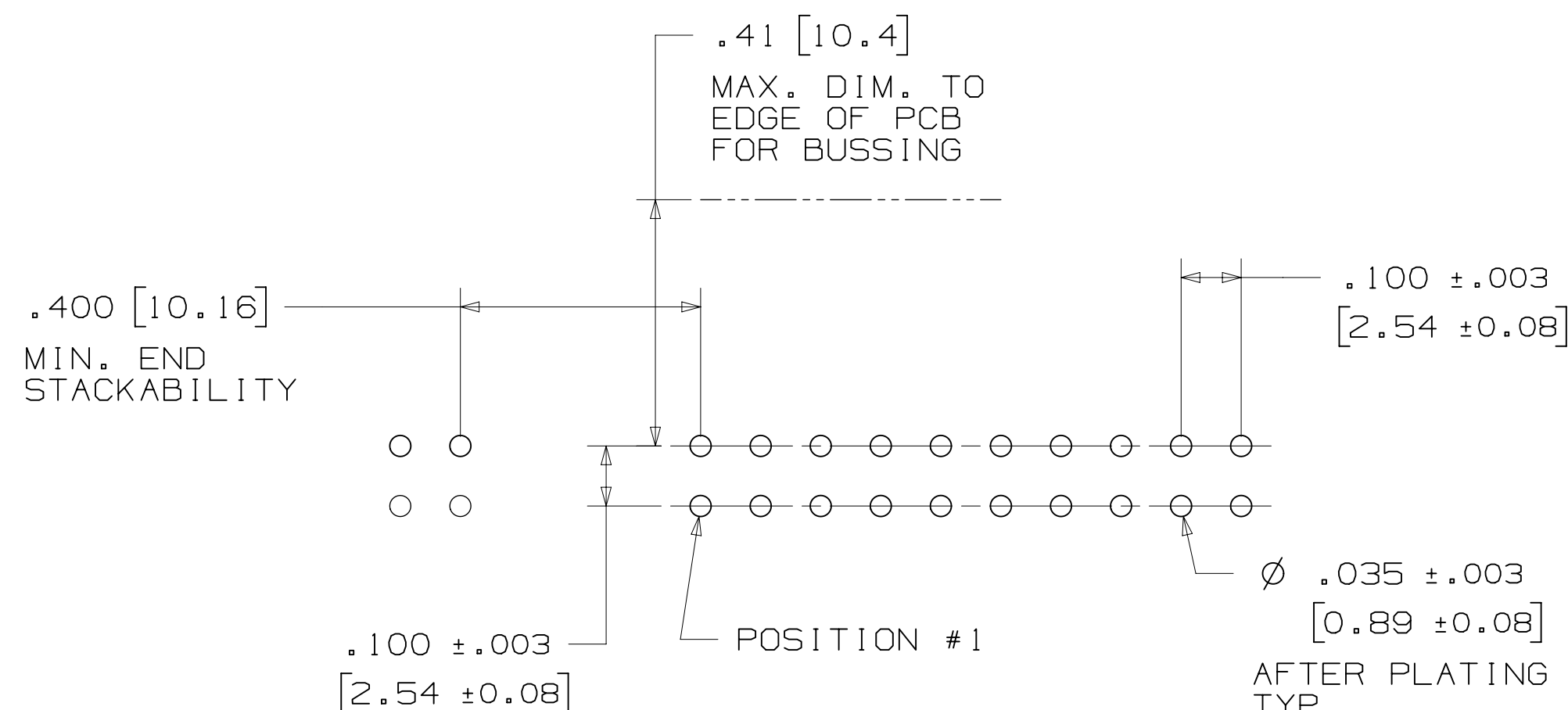


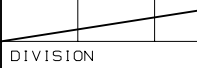
TABLE 1				
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	06
08	.688 [17.48]	.608 [15.44]	B	08
10	.788 [20.02]	.708 [17.98]	BC	10
14	.988 [25.10]	.908 [23.06]	BCDE	14
16	1.088 [27.64]	1.008 [25.60]	ABCDE	16
20	1.288 [32.72]	1.208 [30.68]	ABCDE	20
24	1.488 [37.80]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

```

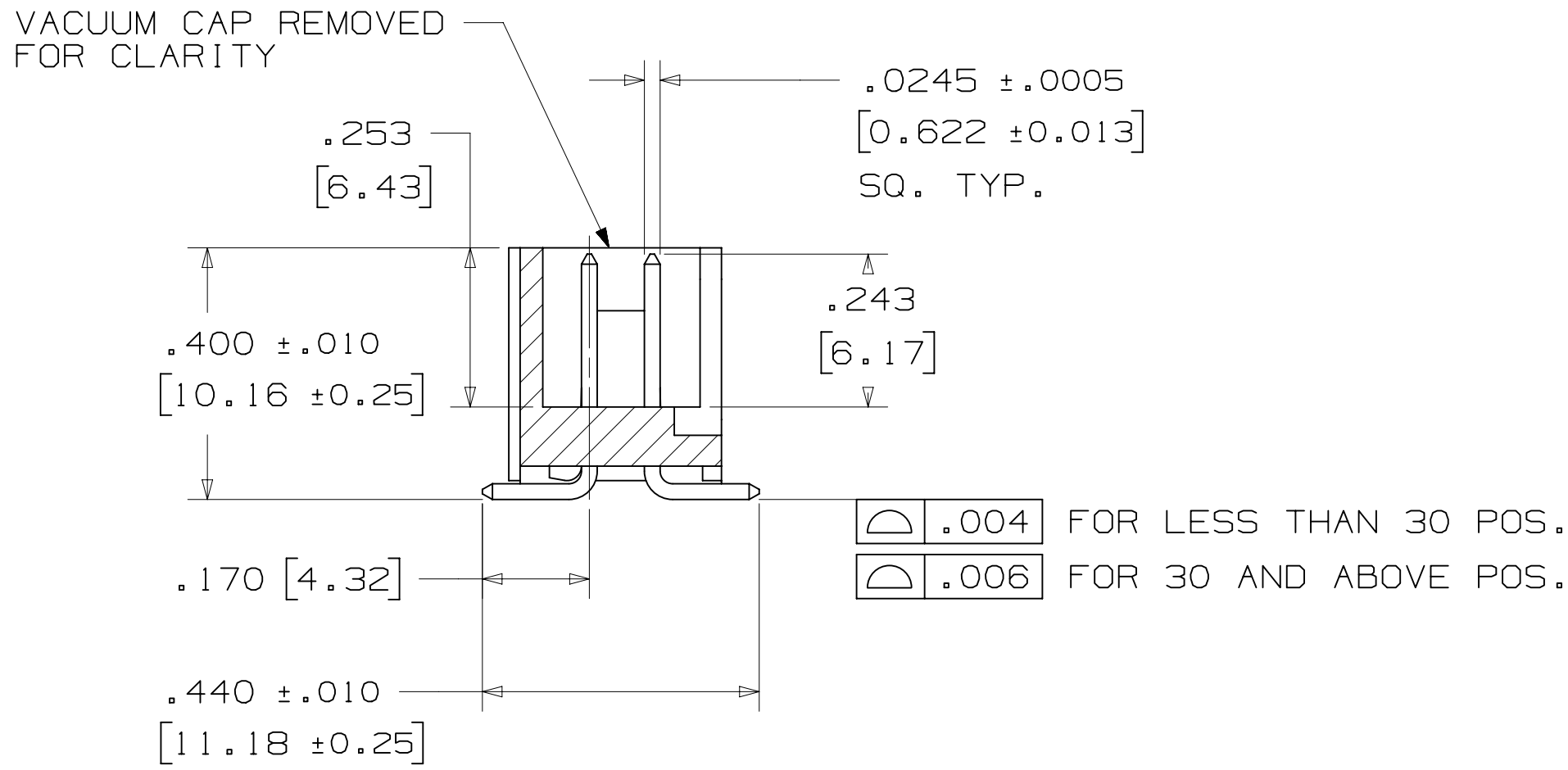
RB = 30µ" [ 0.76µm ] AVG. GOLD
    200µ" [ 5.08µm ] MATTE TIN (RIA. E1 & C1 APPLY)
UG = 15µ" [ 0.38µm ] AVG. GOLD
    200µ" [ 5.08µm ] 60:40 TIN-LEAD SOLDER TAILS
    (RIA E3 & C2 APPLY)
UB = 30µ" [ 0.76µm ] AVG. GOLD
    200µ" [ 5.08µm ] 60:40 TIN LEAD SOLDER TAILS
    (RIA E3 & C2 APPLY)

```



DESIGN REFERENCE		NEXT	ASSEMBLY		REV	ECD	ISSUE DATE AND DESCRIPTION		DRAFT	CHKD
ACROSS					DRAFT CASTIGLIONE		AUG 11, 2014	MFG	DATE	
					CHKD		DATE	APPROV. R. SCHERER	DATE SEP 05, 2014	
DIVISION		DIVISION CODE								
Interconnect Solutions		EMSD		© 3M COPYRIGHT 2016						
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		THIRD ANGLE PROJECTION		INCHES .00 ± .00 ± .01 .000 ± .005 .0000 ±		TITLE HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA				
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS .00 ± .00 ± .13 .000 ±		CAGE NUMBER		SIZE	DRAWING NO.		REV.	
MAX SURFACE ROUGHNESS  ✓ MIN. SURFACES □ MARKED ONLY		ANGLE DEG		D		78-5100-0770-7		N		
				MODEL		2500 SERIES		DET. LISTS		YES 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

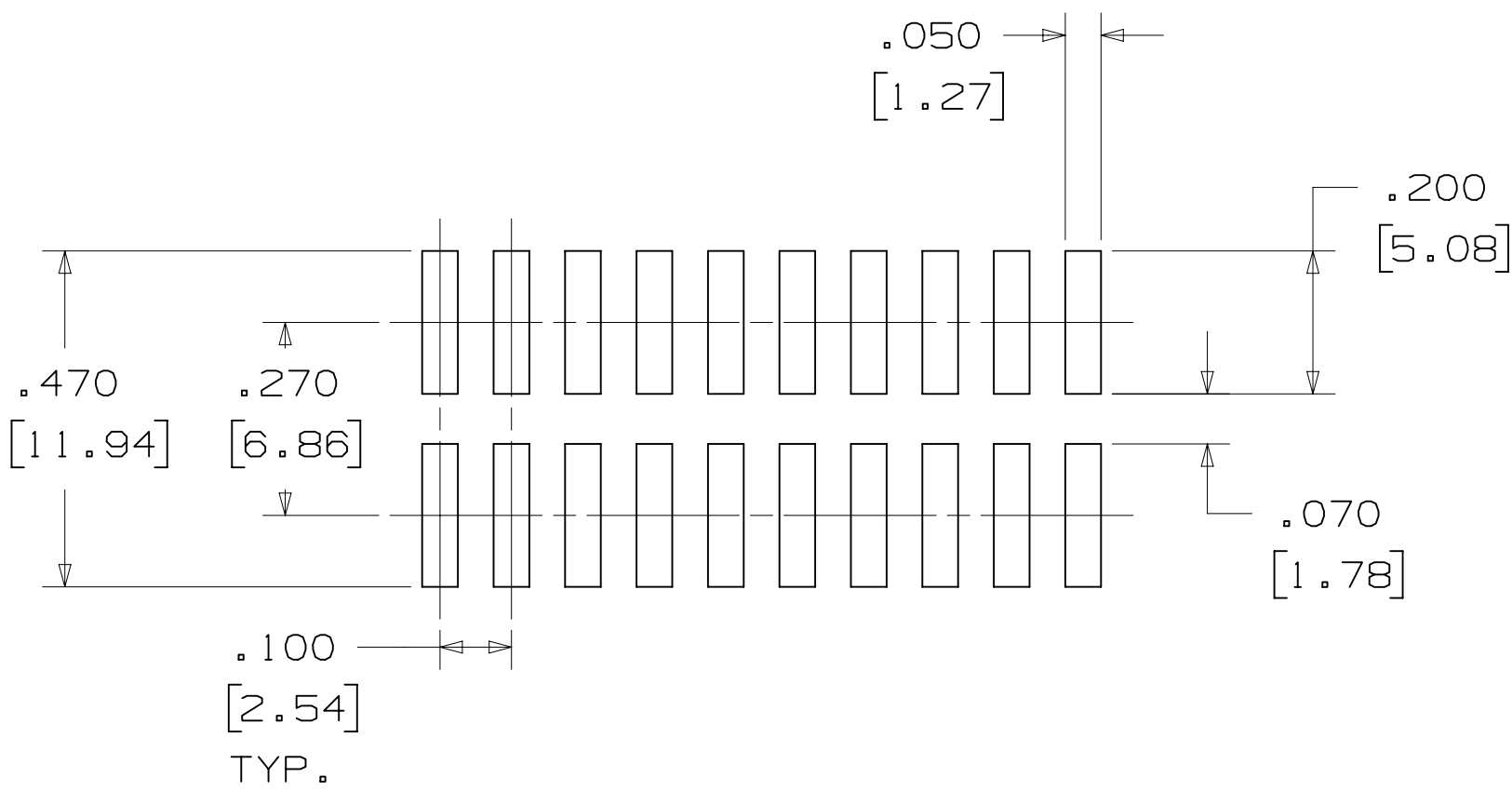
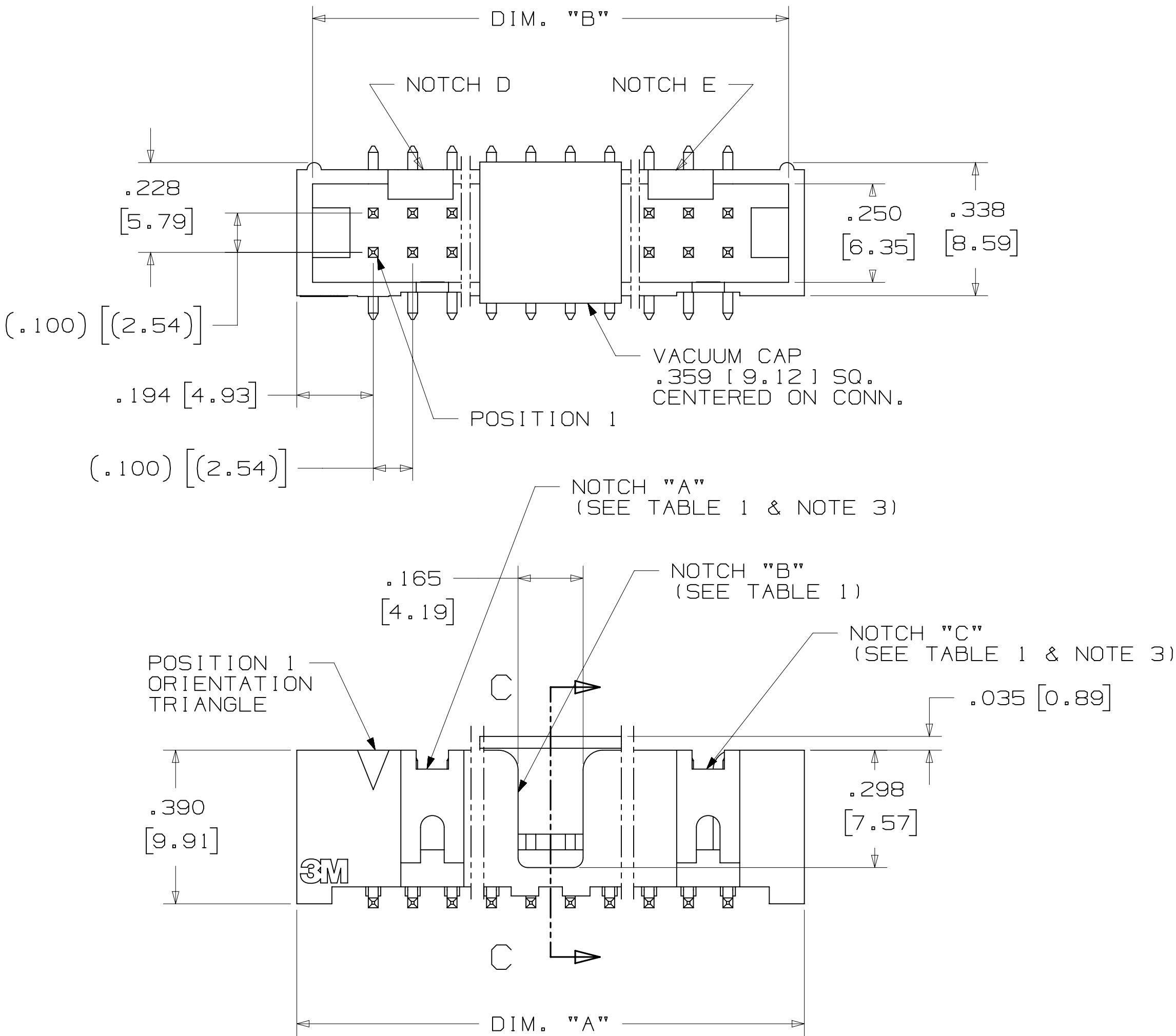
N25XX-6VOC-XX-XX

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
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED	INCHES .00 ±.01 .000 ±.005 .0000 ±	MILLIMETERS 0 ±.3 .00 ±.13 .000 ±	INTERPRET PER ASME Y14.5 - 2009	MAX SURFACE ROUGHNESS 12.5 SURFACES MARKED ONLY
3M	Interconnect Solutions	EMSD	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.	TITLE	HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA
CAGE NUMBER	SIZE	DRAWING NO.	REV.	MODEL	2500 SERIES	DET LISTS
68908	56068	78-5100-0770-7	N	SEP 05, 2014	SEP 05, 2014	SEP 05, 2014

3M™ FOUR-WALL HEADER, 2500 SERIES

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

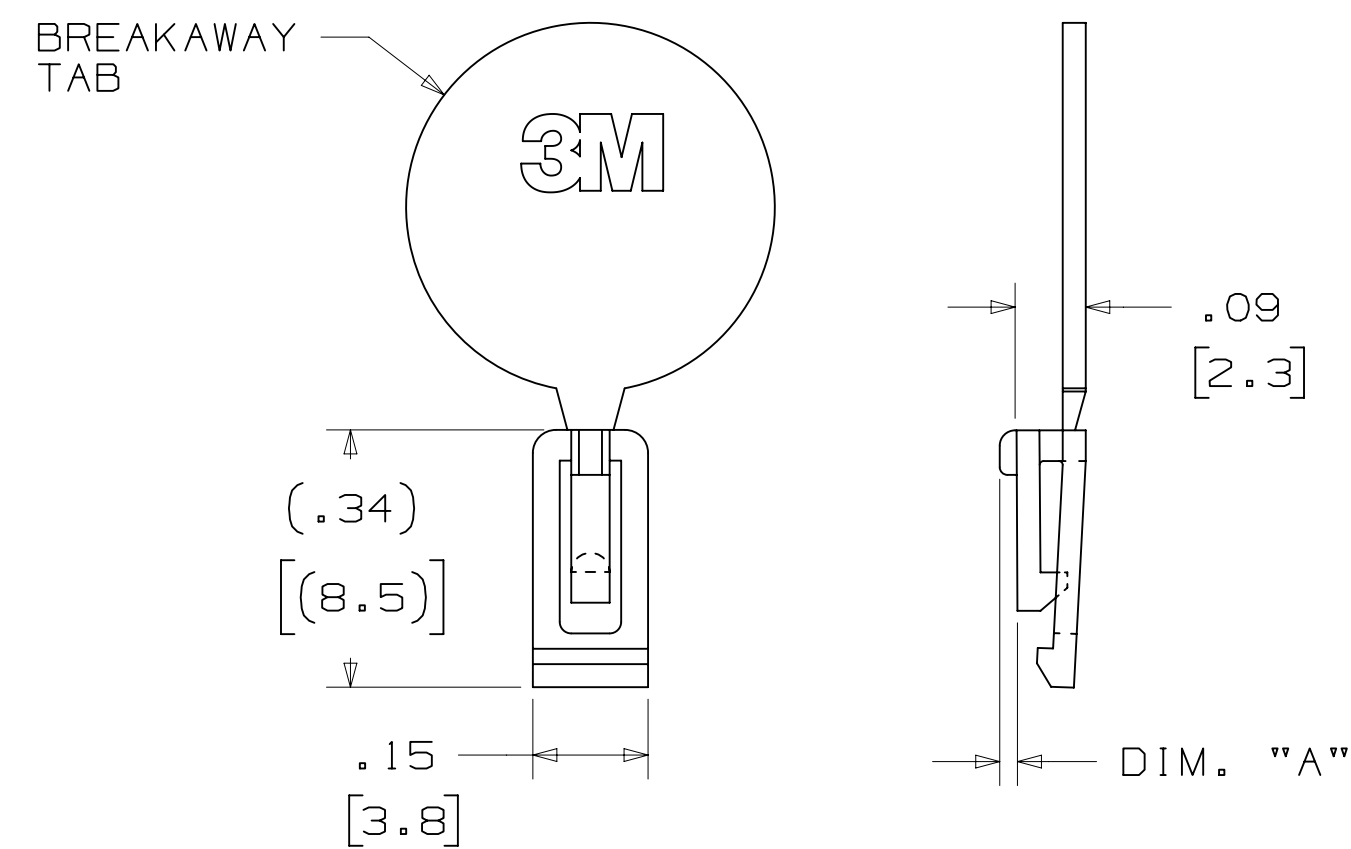
PART CUSTOMIZATION

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.
```

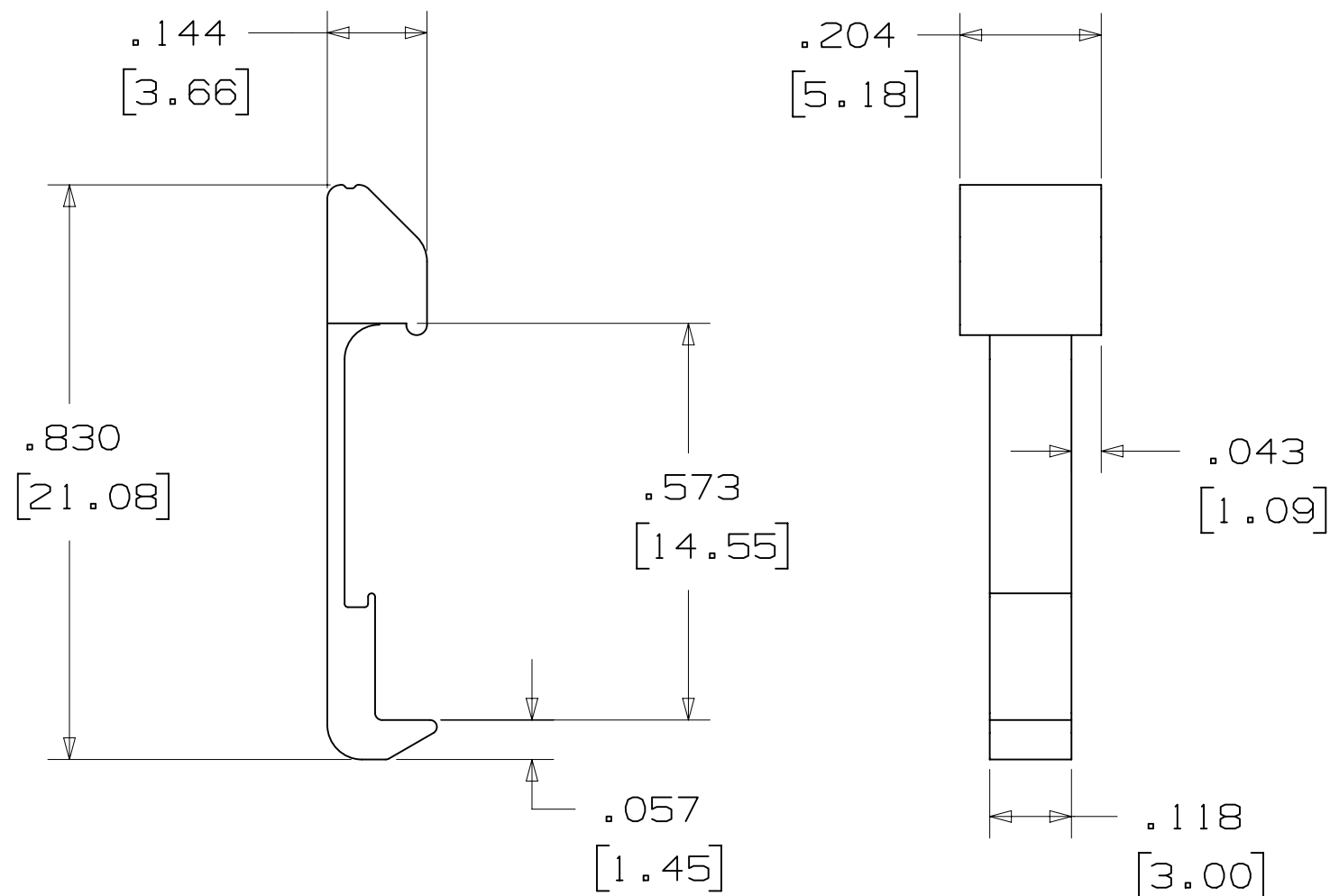
## POLARIZING KEY



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

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

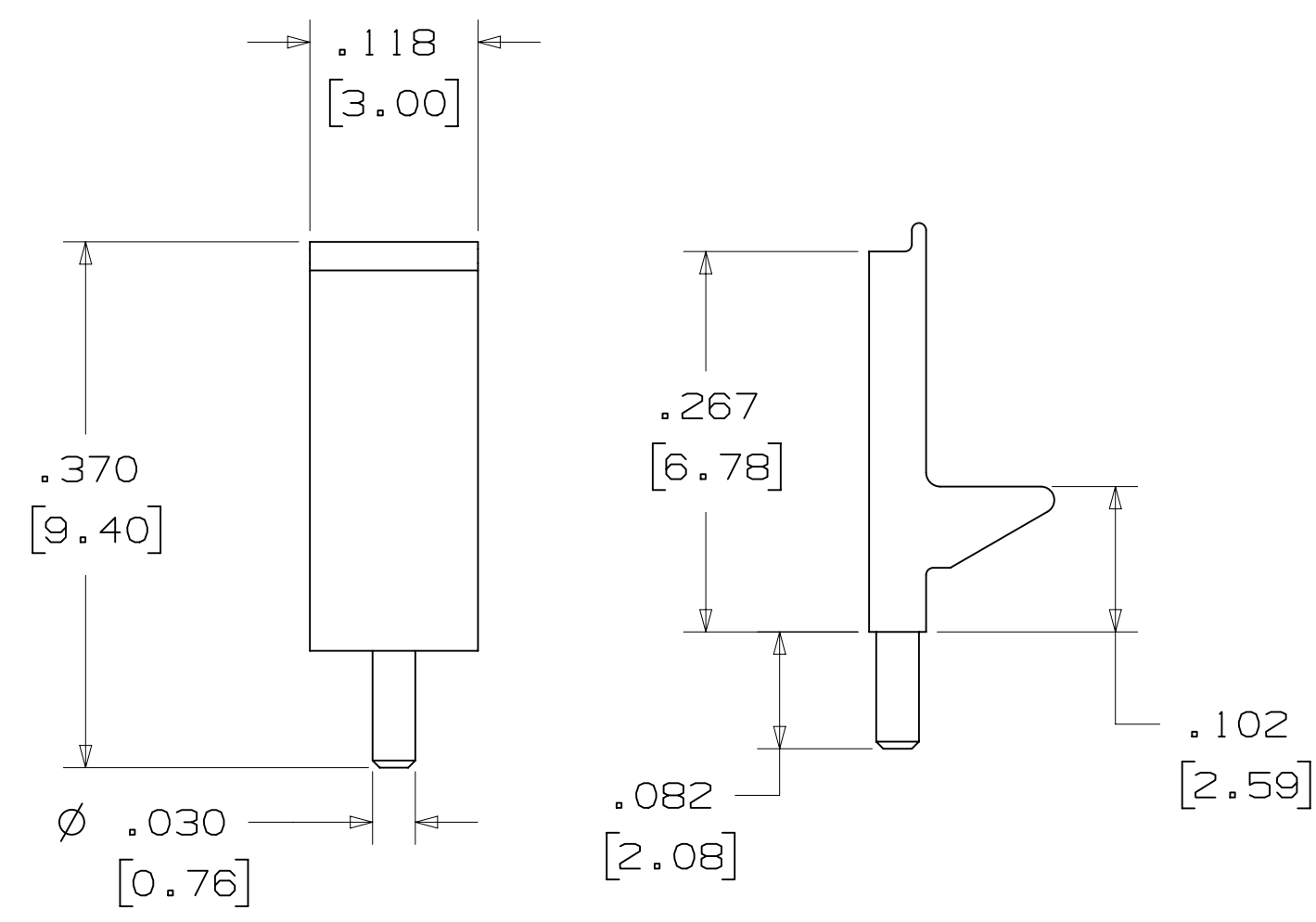
## LOW PROFILE LATCH



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

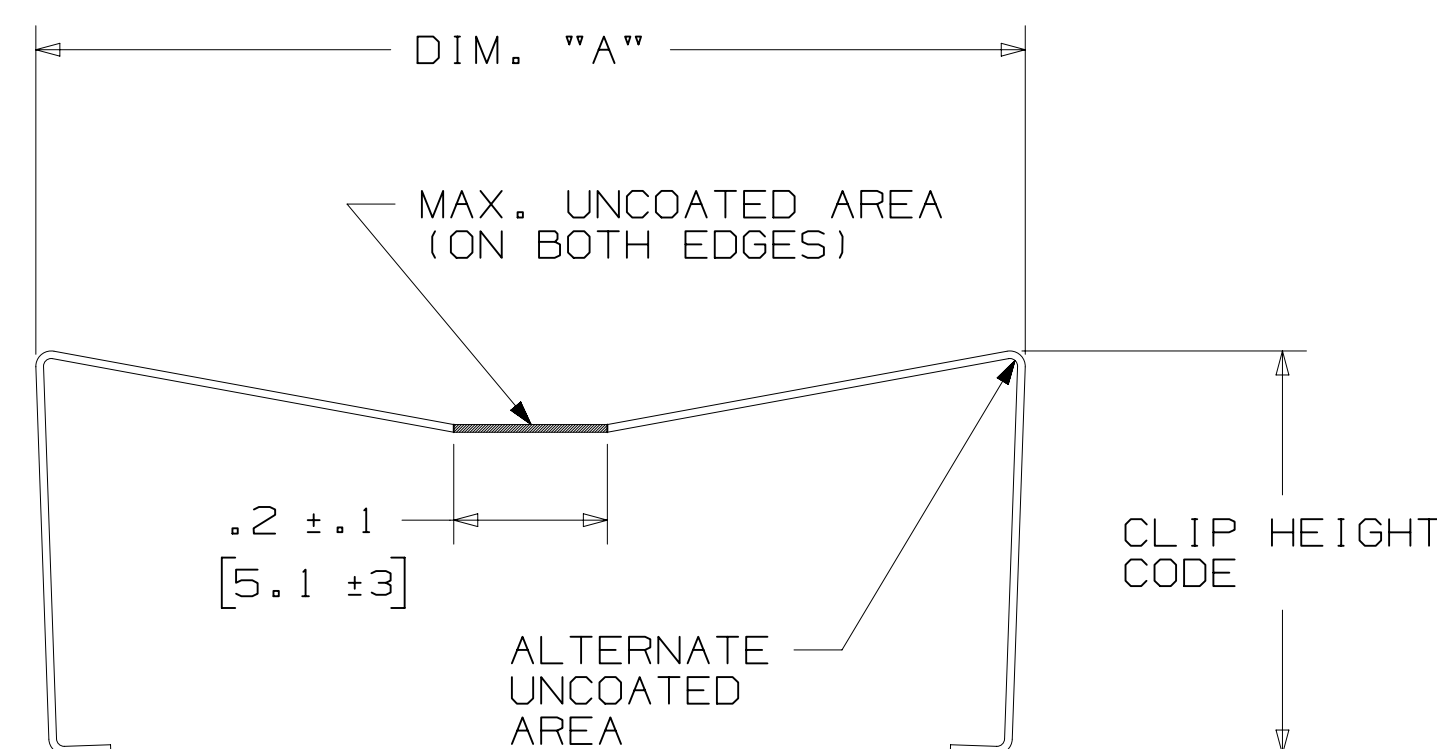
NOTE:  
LATCHES NOT COMPATIBLE WITH REFLOW SOLDERING.  
ATTACH LATCHES AFTER SOLDERING.

## 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.

3505-8XXXX

|                                                      |                 |
|------------------------------------------------------|-----------------|
| 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                                                                                                                                                                                                    |        |                  |
| 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 4 1     | TOLERANCES EXCEPT AS NOTED                   |     | 3M 3M Center St., Paul, MN 55144                                                                                                                                                                                       |        |                  |
| THIRD ANGLE PROJECTION          |               | INCHES 0.0 ± 0.00 ± .01 0.000 ± .005 0.000 ± |     | TITLE                                                                                                                                                                                                                  |        |                  |
| INTERPRET PER ASME Y14.5 - 2009 |               | MILLIMETERS 0 ± 0.0 ± .3 0.00 ± .13 0.00 ±   |     | HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA                                                                                                                                                                |        |                  |
| MAX SURFACE ROUGHNESS           |               | CAGE NUMBER                                  |     | SIZE                                                                                                                                                                                                                   |        | DRAWING NO.      |
| MIN SURFACES                    |               | D                                            |     | 78-5100-0770-7                                                                                                                                                                                                         |        | REV. N           |
| MARKED ONLY                     |               | MODEL                                        |     | 2500 SERIES                                                                                                                                                                                                            |        | DET. SHTS 5 OF 5 |
| ANGLE                           |               |                                              |     |                                                                                                                                                                                                                        |        |                  |

Imaged: N.1 8/5/2016 11:10 AM UTC-05:00



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

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.