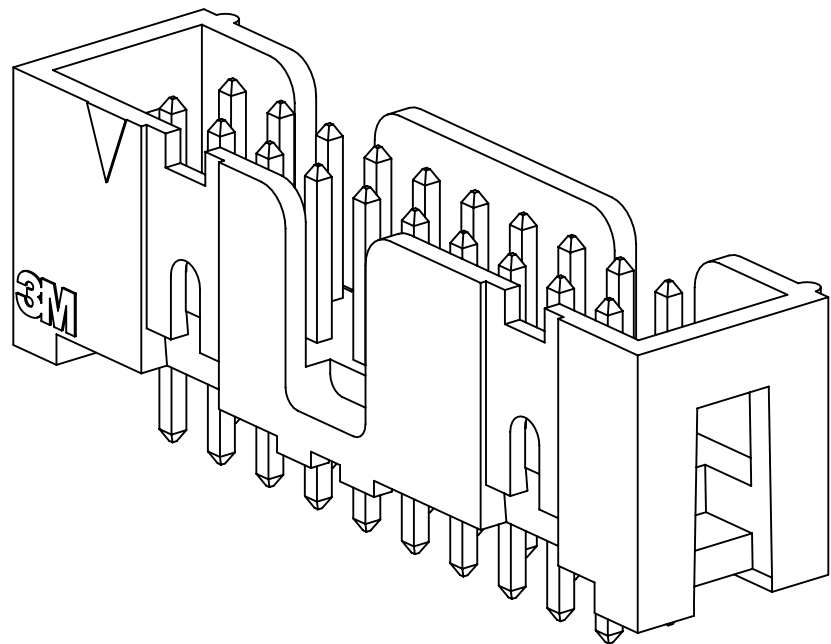
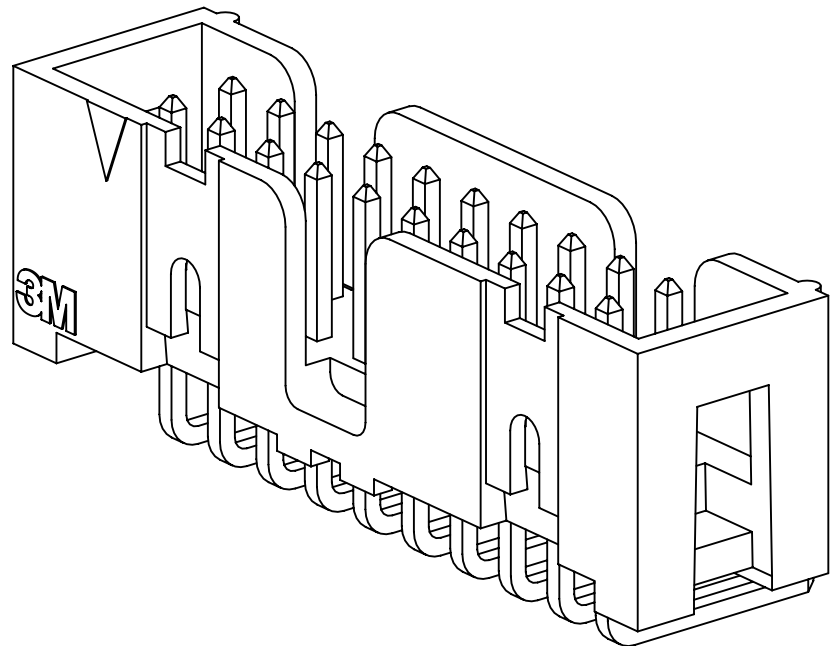


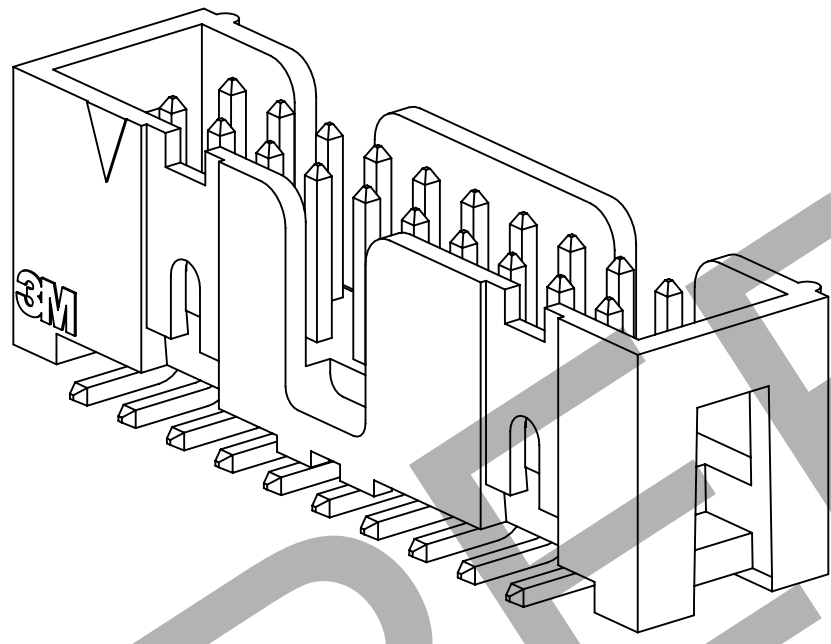
3M™ FOUR-WALL HEADER, D2500 SERIES
.100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE



D25XX-6002
STRAIGHT VERSION



D25XX-5002
RIGHT ANGLE VERSION



D25XX-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 : HIGH TEMP GLASS FILLED POLYESTER (PCT)
FLAMMABILITY : UL94V-0
COLOR : BLACK
CONTACT :
MATERIAL : BRASS
PLATING :
UNDER PLATING : 50-100µ" [1.27-2.54µm] NICKEL-OVERALL
WIPING AREA : 10µ" [25µm] GOLD
SOLDER TAILS : 40-120µ" [1-3µm] MATTE TIN
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 RADIUS
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>

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	
XREF		XREF		DRFT		DATE		DATE		DATE		DATE	
DIVISION		DIVISION CODE		CHKD		DATE		DATE		DATE		DATE	
Interconnect Solutions		EMSD		APPR		DATE		DATE		DATE		DATE	
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS		INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS	
THIRD ANGLE PROJECTION		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS		INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS		MARKED ONLY	
CAGE NUMBER		SIZE		DRAWING NO.		REV.		MODEL		DET		YES	
D		78-5100-2244-1		H		SHT 1 OF 5		D2500 SERIES		YES		NO	

3M™ FOUR-WALL HEADER, D2500 SERIES

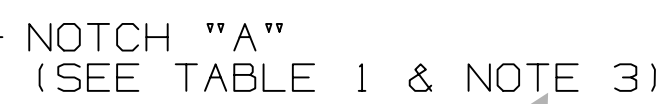
SECTION A - A

TABLE 1

D25XX-6002-AR

PLATING:

AR = 10μ" [0.25μm] GOLD
(RIA. E1 & C1 APPLY)

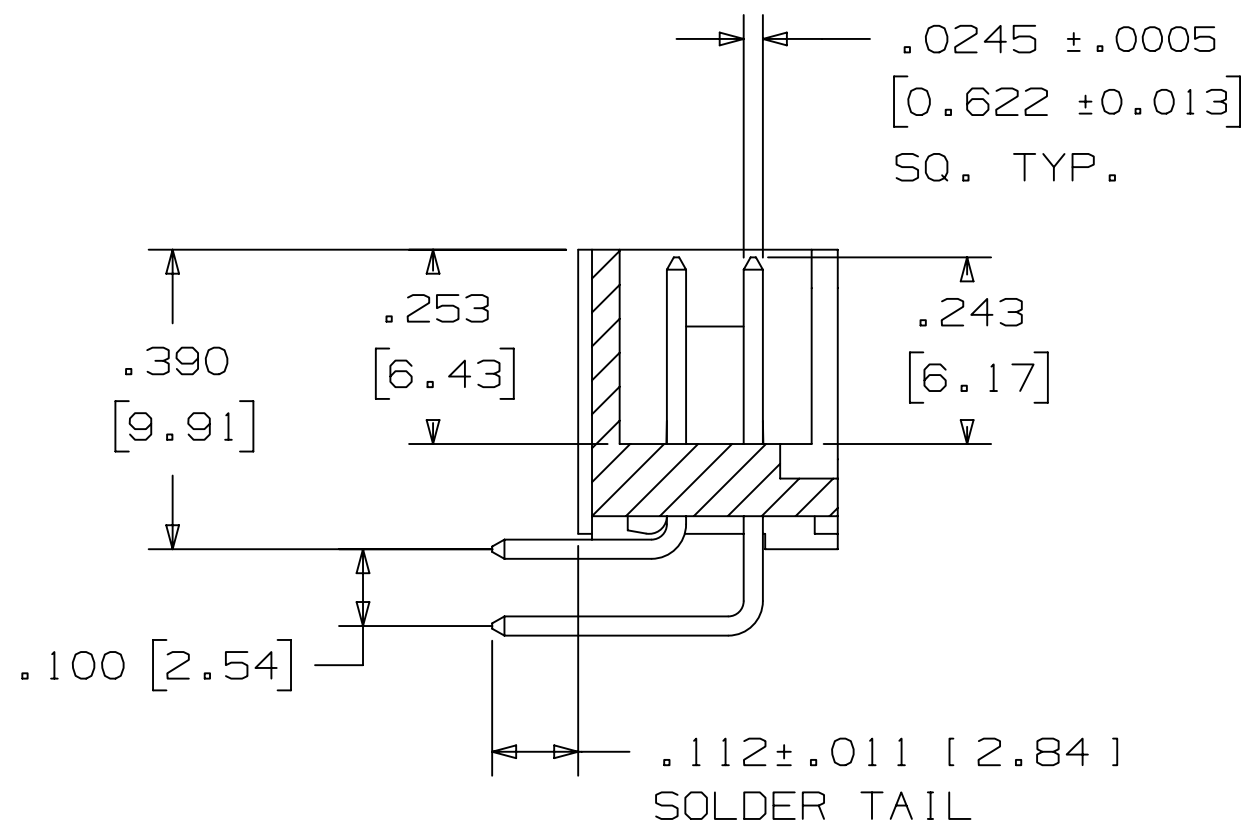


3M 3M Center
St. Paul,
MN 55144

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

CAGE NUMBER	SIZE D	DRAWING NO. 78-5100-2244-1	REV. H
MODEL D2500 SERIES		DET. LISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	SHT 2 OF 5

3M™ FOUR-WALL HEADER, D2500 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

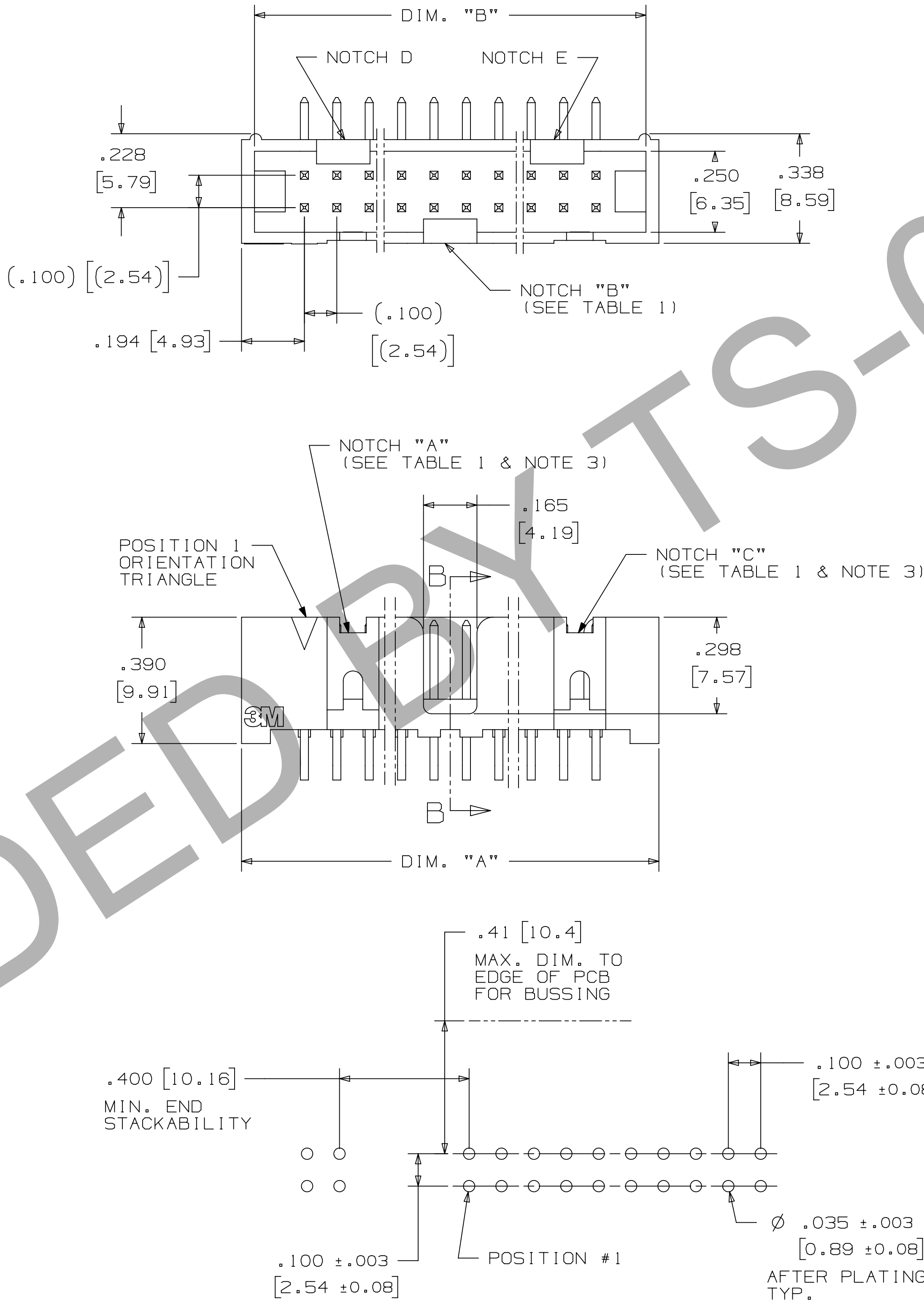
ORDERING INFORMATION
RIGHT ANGLE VERSION

D25XX-5002-AR

PIN QUANTITY:
(SEE TABLE 1)

SOLDER TAIL:
FOR .062 [1.57] THICK BOARD

PLATING:
AR = 10µ" [0.25µm] GOLD
(R1A, E1 & C1 APPLY)



RECOMMENDED HOLE PATTERN
SHOWN FROM COMPONENT SIDE

DESIGN REFERENCE	NEXT ASSEMBLY	H 68908	AUG 05,2016	JNC	SC
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD	
DRFT	CSTIGLIONE	DATE AUG 05,2016	MFG	DATE	
CHKD		DATE	APPR	DATE	
			S. CLATANOFF	AUG 05,2016	
DIVISION	Interconnect Solutions	DIVISION CODE	EMSD		
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		ALL SURFACES			
MARKED ONLY		ANGLES			
TITLE		HEADER, 4-WALL, LO-PRO, .100 X .100, SMT, STRAIGHT & RA			
CAGE NUMBER		SIZE	DRAWING NO.	REV.	
D			78-5100-2244-1	H	
MODEL		D2500 SERIES	DET	LISTS	YES NO SHT 3 OF 5

3M™ FOUR-WALL HEADER, D2500 SERIES
.100" X .100" LOW PROFILE, SURFACE MOUNT, STRAIGHT AND RIGHT ANGLE THROUGH-HOLE

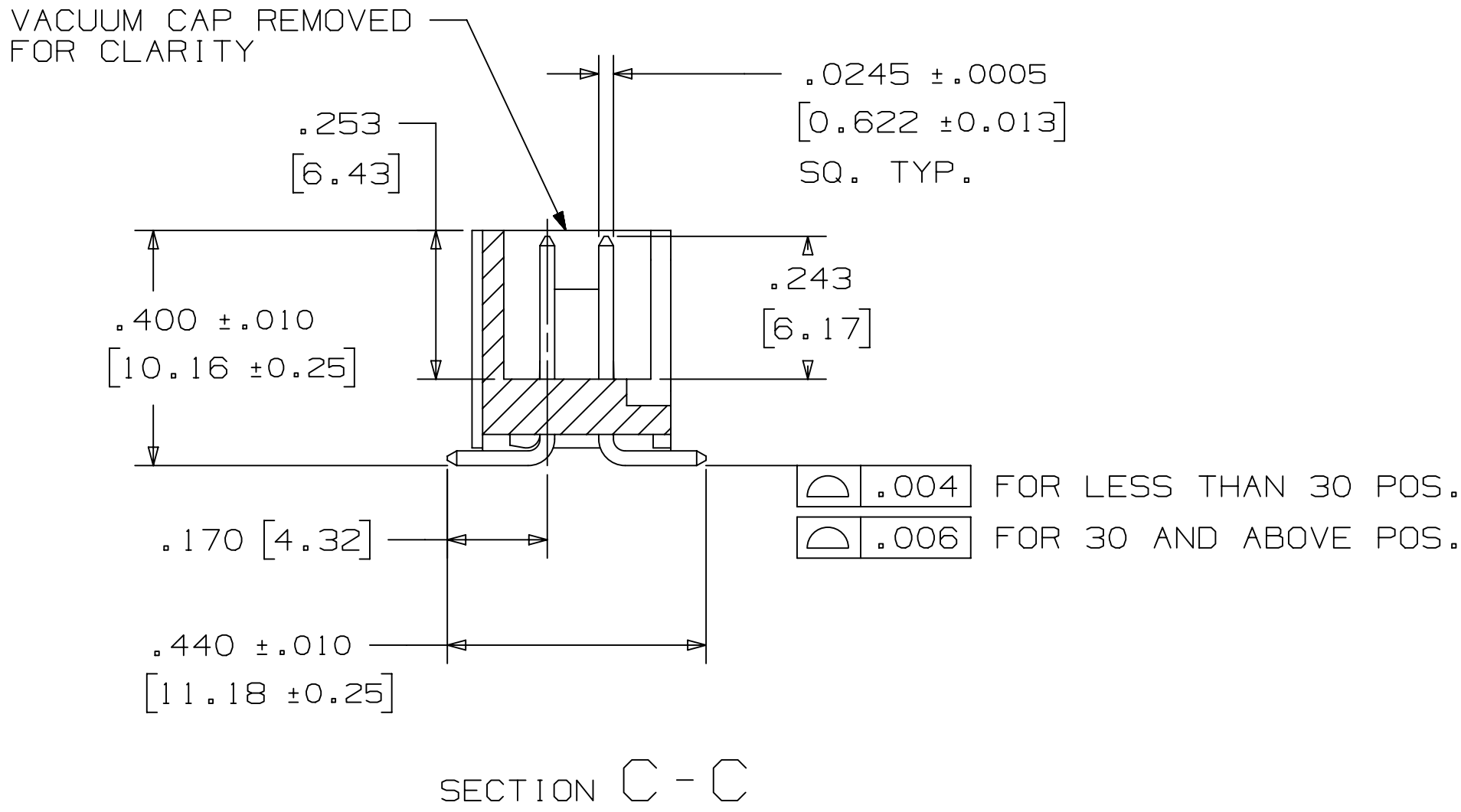


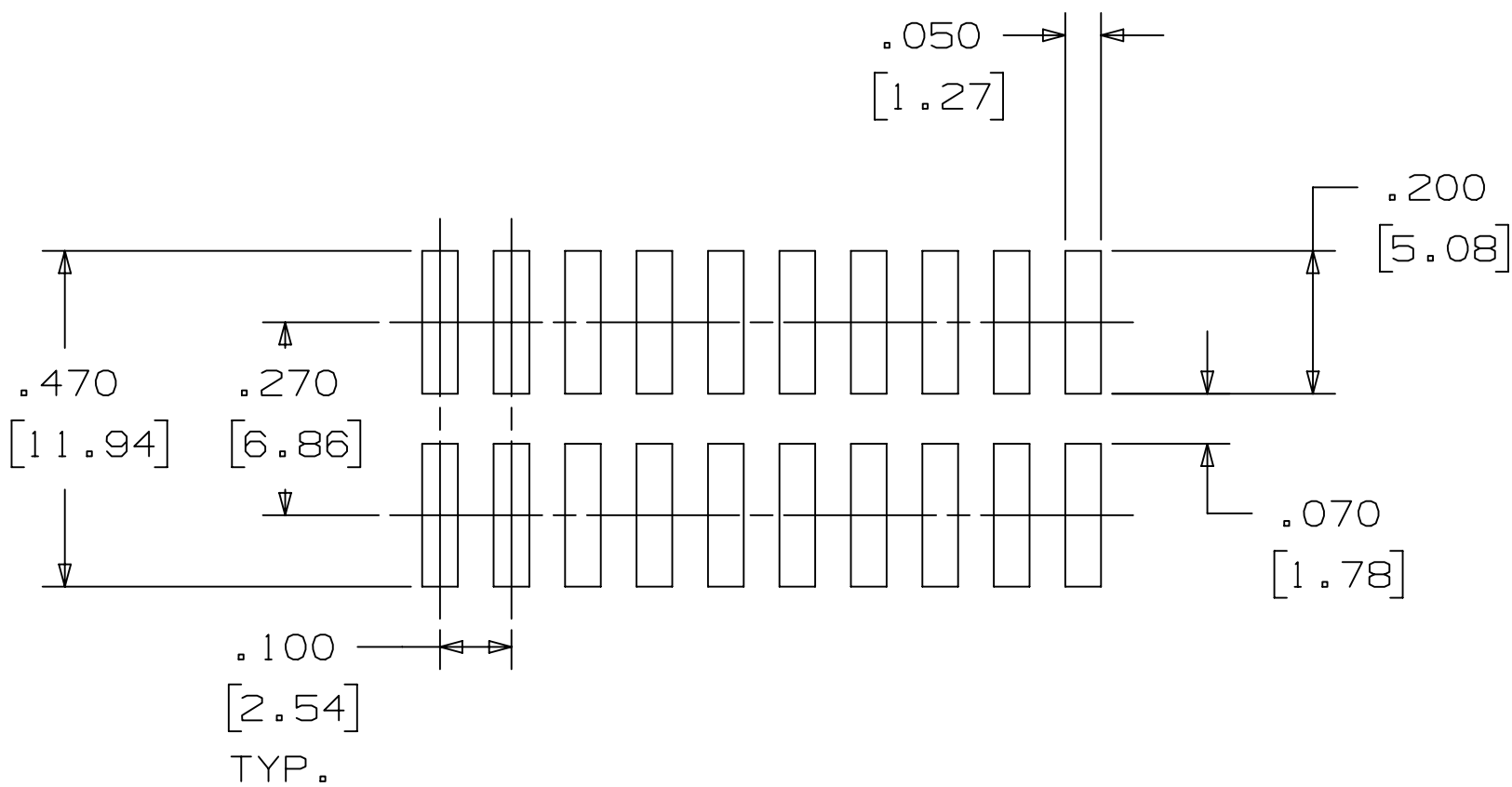
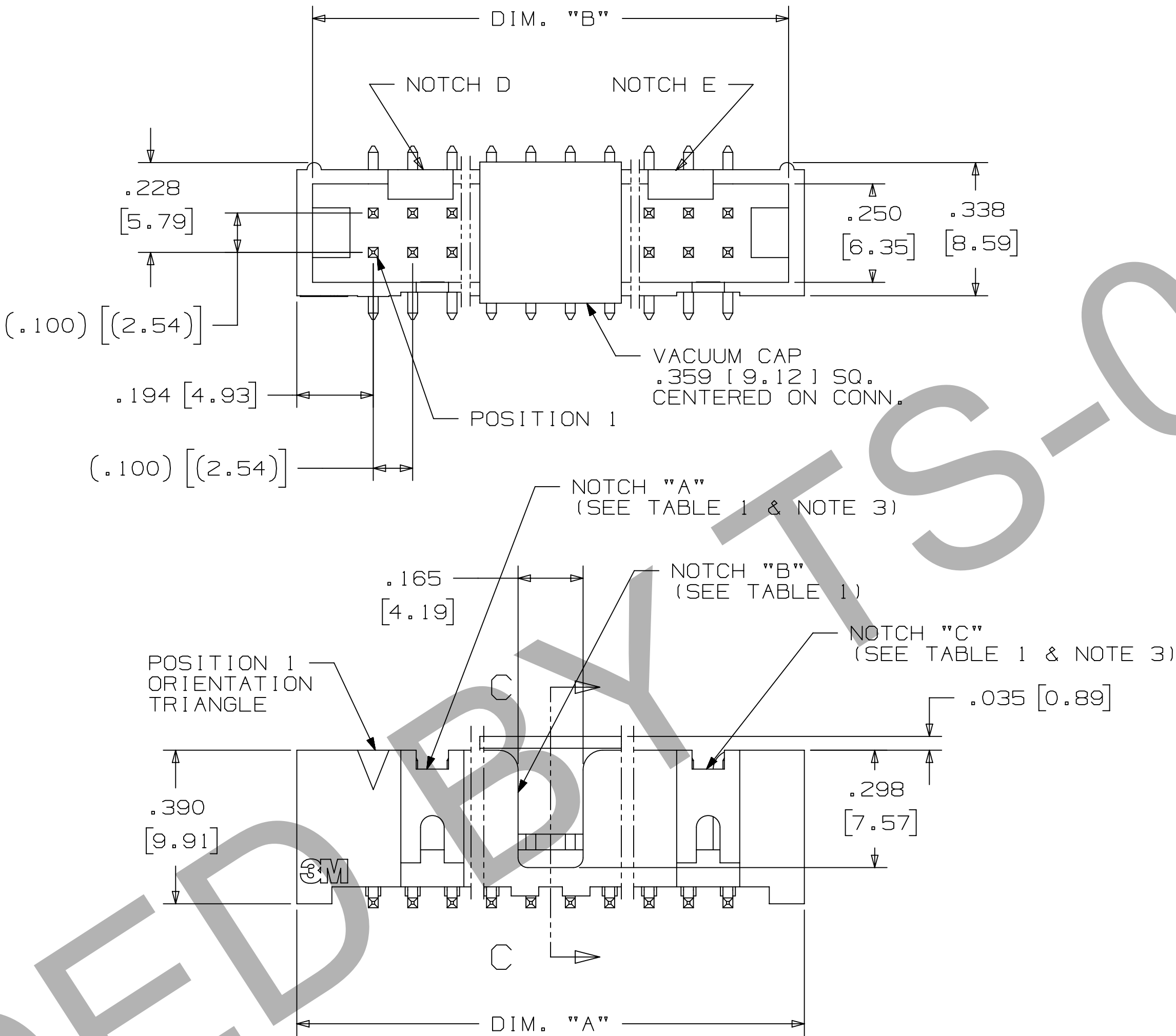
TABLE 1					
PIN QTY.	DIM. "A"	DIM. "B"	POLARIZING NOTCHES	TAPE AND REEL PKG CODE	PIN QTY.
06	.588 [14.94]	.508 [12.90]	B	WD (44 MM)	06
08	.688 [17.48]	.608 [15.44]	B	WD (44 MM)	08
10	.788 [20.02]	.708 [17.98]	BC	WD (44 MM)	10
14	.988 [25.10]	.908 [23.06]	BCDE	WD (44 MM)	14
16	1.088 [27.64]	1.008 [25.60]	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
D25XX-6VOC-AR-XX

PIN QUANTITY:
(SEE TABLE 1)

PACKAGING OPTIONS:
WX = TAPE & REEL PACKAGING (SEE TABLE 1)

PLATING:
AR = 10µ" [0.25µm] GOLD
(RIA, E1 & C1 APPLY)



RECOMMENDED PAD LAYOUT

DESIGN REFERENCE		NEXT ASSEMBLY		H 68908		AUG 05,2016		JNC SC	
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
DRFT		CASTIGLIONE		DATE		AUG 05,2016		MFS	
CHKD		DATE		APPR		S. CLATONOFF		DATE	
DIVISION		Interconnect Solutions		DIVISION CODE		EMSD		3M	
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		ALL SURFACES		MARKED ONLY	
CAGE NUMBER		D78-5100-2244-1		DRAWING NO.		H		REV.	
MODEL		D2500 SERIES		DET		LTS		YES NO	
SHT 4 OF 5									

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

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.
```

Technical drawing of the 3M Breakaway Tab, showing top and side views with dimensions.

**Top View Dimensions:**

- Width: .15 [3.8]
- Height: .34 [8.5]
- Callout: BREAKAWAY TAB (pointing to the 3M logo)

**Side View Dimensions:**

- Thickness: .09 [2.3]
- Dimension: DIM. "A"

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

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

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

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

Technical drawing of a mechanical part with dimensions in inches and millimeters. The drawing shows a side view of a component with a central vertical section and a base. Dimensions are provided for various features:

- Top horizontal dimension:  $.118$  [3.00]
- Left vertical dimension:  $.370$  [9.40]
- Bottom left horizontal dimension:  $\varnothing .030$  [0.76]
- Right vertical dimension:  $.267$  [6.78]
- Bottom right horizontal dimension:  $.082$  [2.08]
- Bottom right horizontal dimension:  $.102$  [2.59]

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

Diagram illustrating the dimensions and features of a clip:

- DIM. "A"**: Overall length of the clip.
- MAX. UNCOATED AREA (ON BOTH EDGES)**: Dimension indicating the maximum uncoated area on both edges.
- .2 ± .1**: Dimension indicating the thickness of the clip.
- [5.1 ± 3]**: Dimension indicating the width of the clip.
- CLIP HEIGHT**: Dimension indicating the height of the clip.
- CLIP CODE**: Label for the clip code.
- ALTERNATE UNCOATED AREA**: Label for the alternate uncoated area.

| 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 (SEE TABLE)  
 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

|                                                                                                                                                                 |  |                                                                                                                                                                                                                                |  |                                     |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|------|
| H 69008                                                                                                                                                         |  | AUG 05, 2016                                                                                                                                                                                                                   |  | JNC                                 | SC   |
| REVISED AND REDRAWN                                                                                                                                             |  |                                                                                                                                                                                                                                |  |                                     |      |
| REV ECO                                                                                                                                                         |  | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                                     |  | DRFT                                | CHKD |
| DRFT CUST IGLONE                                                                                                                                                |  | DATE AUG 05, 2016                                                                                                                                                                                                              |  | DATE                                |      |
| CHMD                                                                                                                                                            |  | DATE                                                                                                                                                                                                                           |  | APPR S. CLATANOFF DATE AUG 05, 2016 |      |
| DIVISION                                                                                                                                                        |  | © 3M COPYRIGHT 2016                                                                                                                                                                                                            |  |                                     |      |
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| DO NOT SCALE DRAWING                                                                                                                                            |  | <div> <div> <div>3M</div> <div>3M Center<br/>St. Paul,<br/>MN 55144</div> </div> <div> <div>HEATER, 4- WALL,<br/>LO-PRO, .100 X .100,<br/>SMT, STRAIGHT &amp; RA</div> </div> </div>                                           |  |                                     |      |
| DIVISION CODE EWSO                                                                                                                                              |  | TITLE                                                                                                                                                                                                                          |  |                                     |      |
| TOLERANCES EXCEPT AS NOTED                                                                                                                                      |  |                                                                                                                                                                                                                                |  |                                     |      |
| <div> <div>INCHES</div> <div>           .0<br/>           .00 ±<br/>           .000 ±.01<br/>           .000 ±.005<br/>           .0000 ±         </div> </div> |  |                                                                                                                                                                                                                                |  |                                     |      |
|                                                                                                                                                                 |  |                                                                                                                                                                                                                                |  |                                     |      |
| THIRD ANGLE PROJECTION                                                                                                                                          |  |                                                                                                                                                                                                                                |  |                                     |      |
| INTERPRET PER ASME Y14.5 - 2009                                                                                                                                 |  | MILLIMETERS                                                                                                                                                                                                                    |  |                                     |      |
| <div> <div>MAX SURFACE ROUGHNESS</div> <div>           0<br/>           .00 ±.3<br/>           .00 ±.13<br/>           .000 ±         </div> </div>             |  |                                                                                                                                                                                                                                |  |                                     |      |
| <input checked="" type="checkbox"/> ALL SURFACES<br><input type="checkbox"/> MARKED ONLY                                                                        |  |                                                                                                                                                                                                                                |  |                                     |      |
| <div> <div>ANGLES ±</div> </div>                                                                                                                                |  |                                                                                                                                                                                                                                |  |                                     |      |
| CAGE NUMBER                                                                                                                                                     |  | SIZE                                                                                                                                                                                                                           |  | DRAWING NO.                         |      |
| D                                                                                                                                                               |  | 78-5100-2244-1                                                                                                                                                                                                                 |  | H                                   |      |
| MODEL                                                                                                                                                           |  | D2500                                                                                                                                                                                                                          |  | SERIES                              |      |
| DET                                                                                                                                                             |  | YES                                                                                                                                                                                                                            |  | NO                                  |      |
| SHT                                                                                                                                                             |  | 5                                                                                                                                                                                                                              |  | OF 5                                |      |

# Mouser Electronics

Authorized Distributor

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