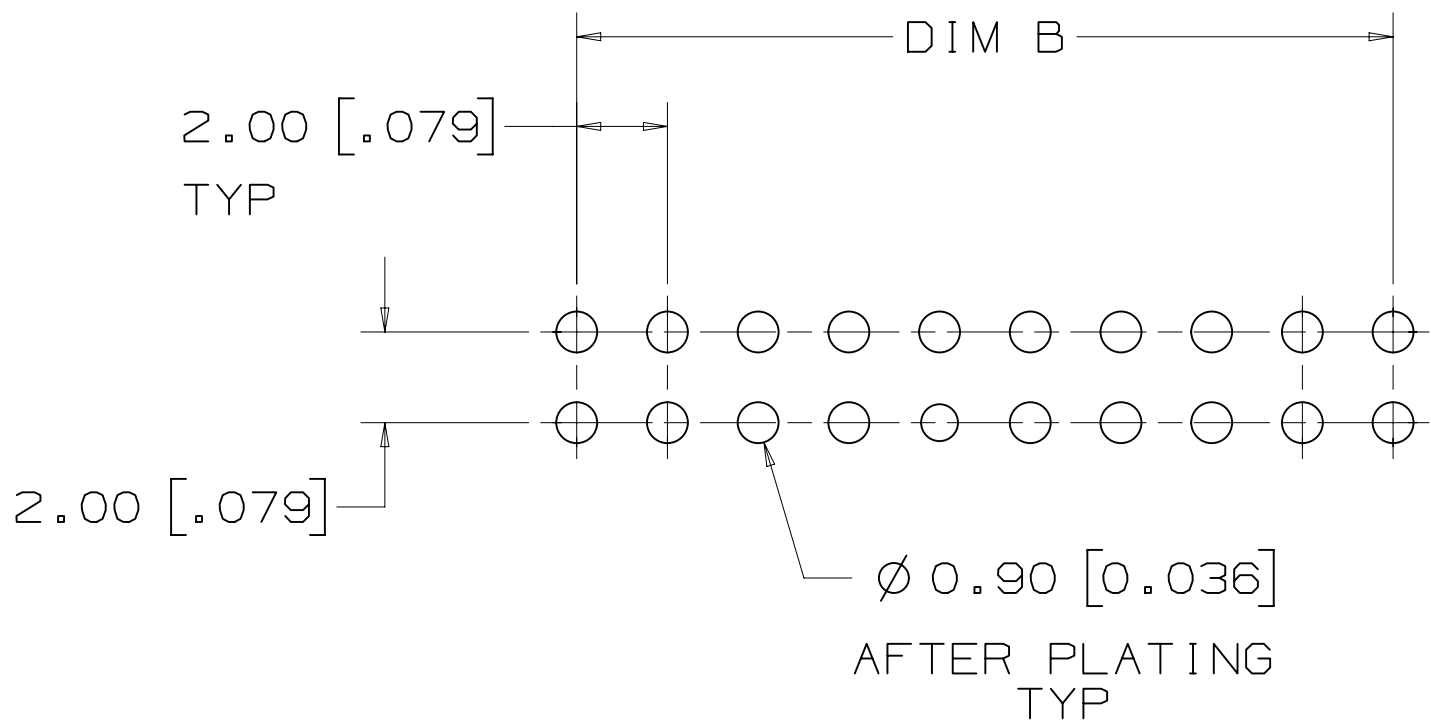
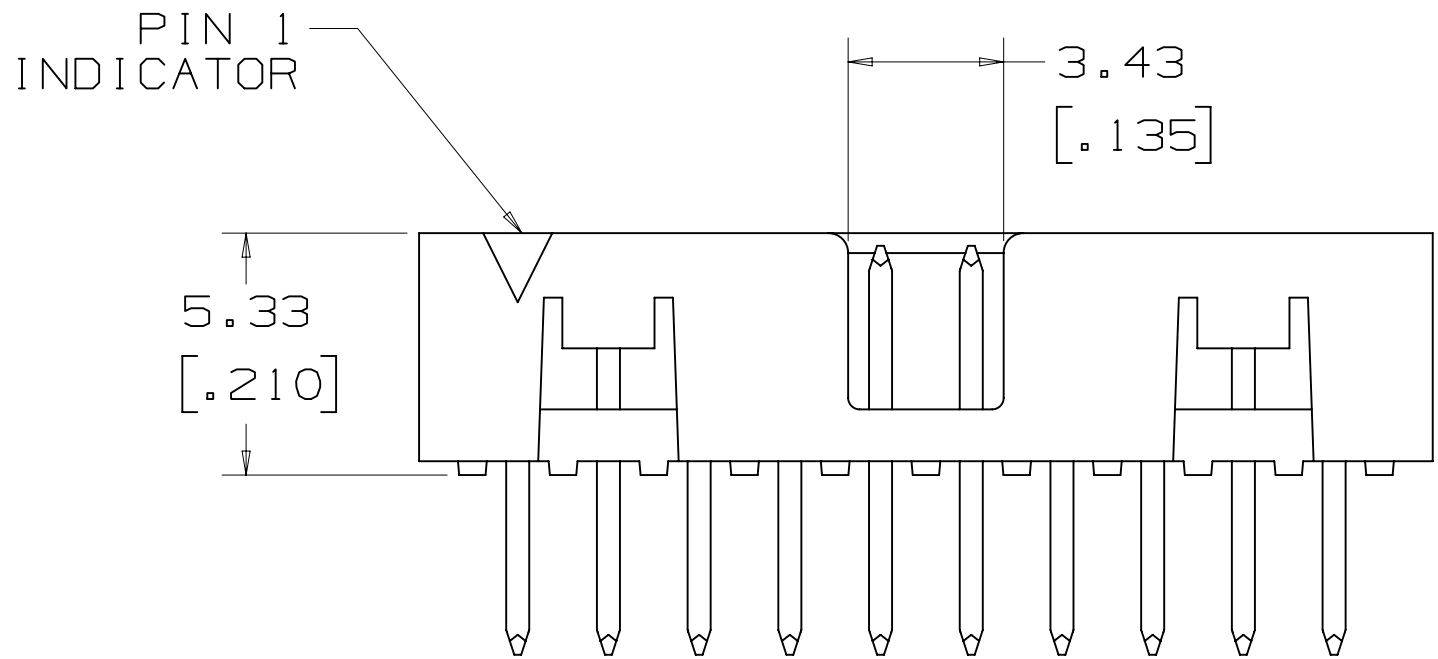
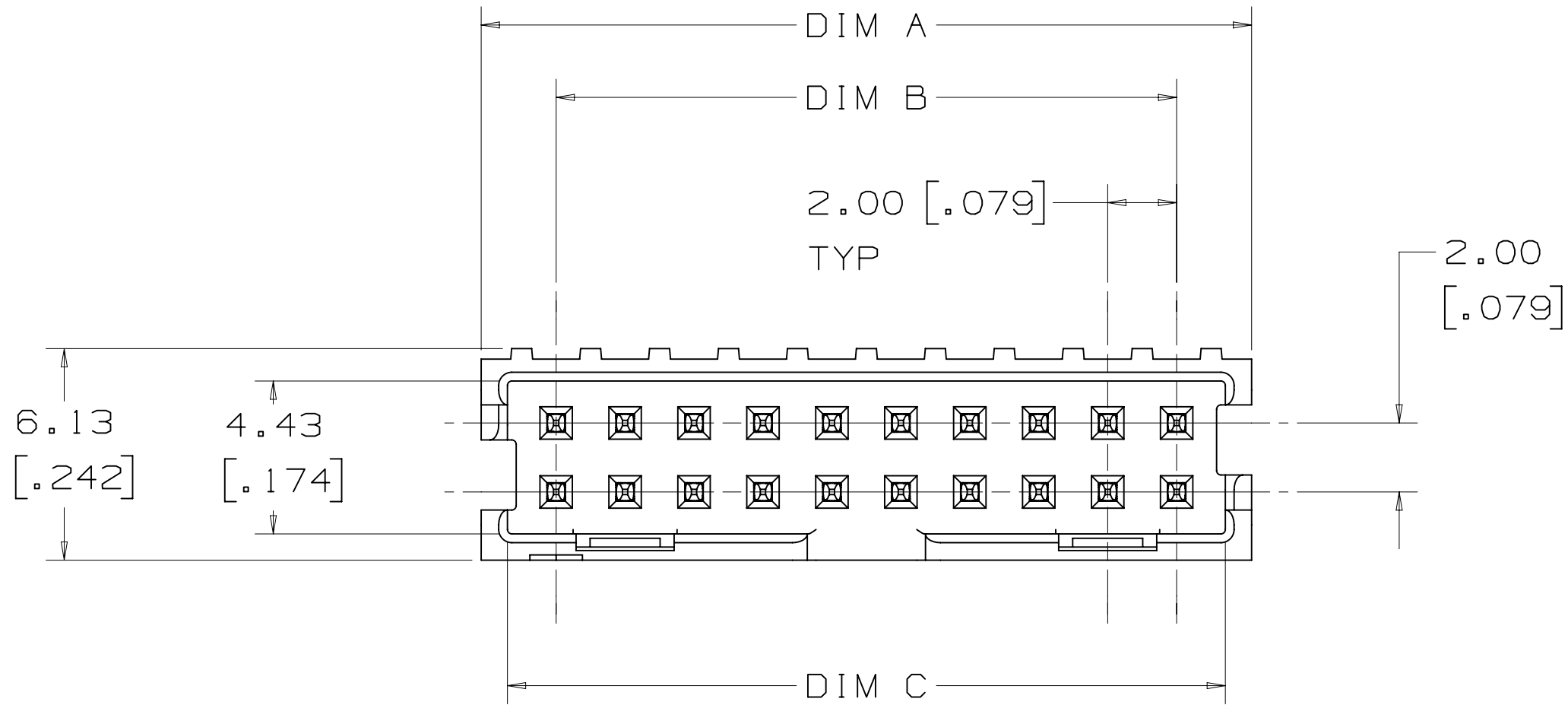
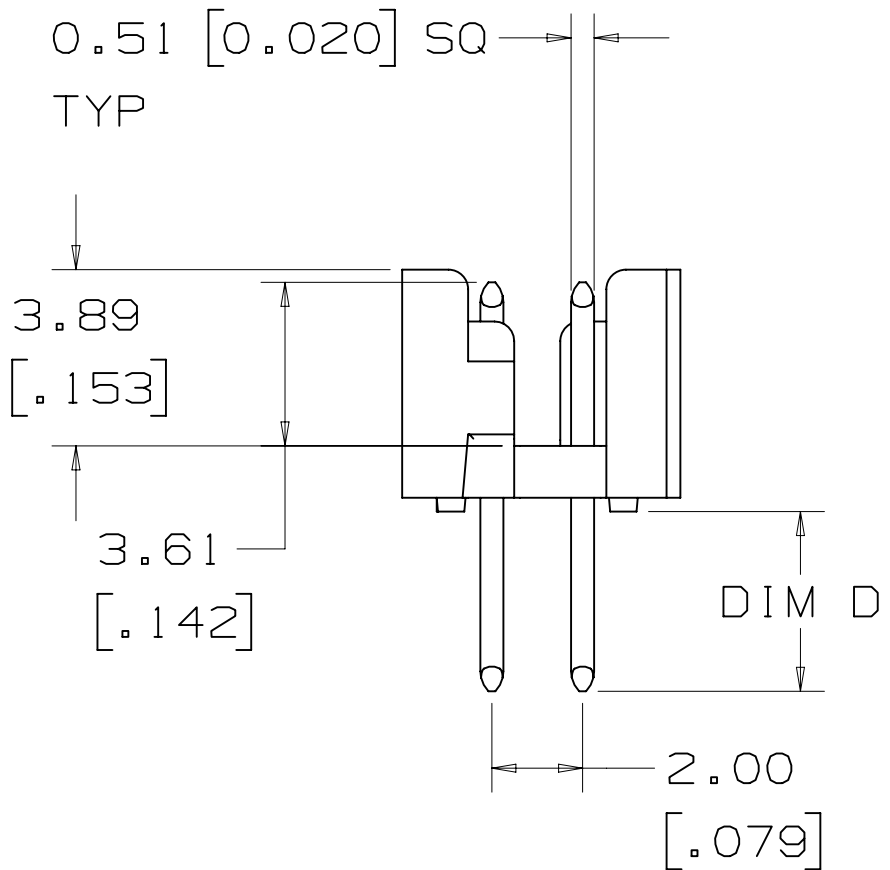
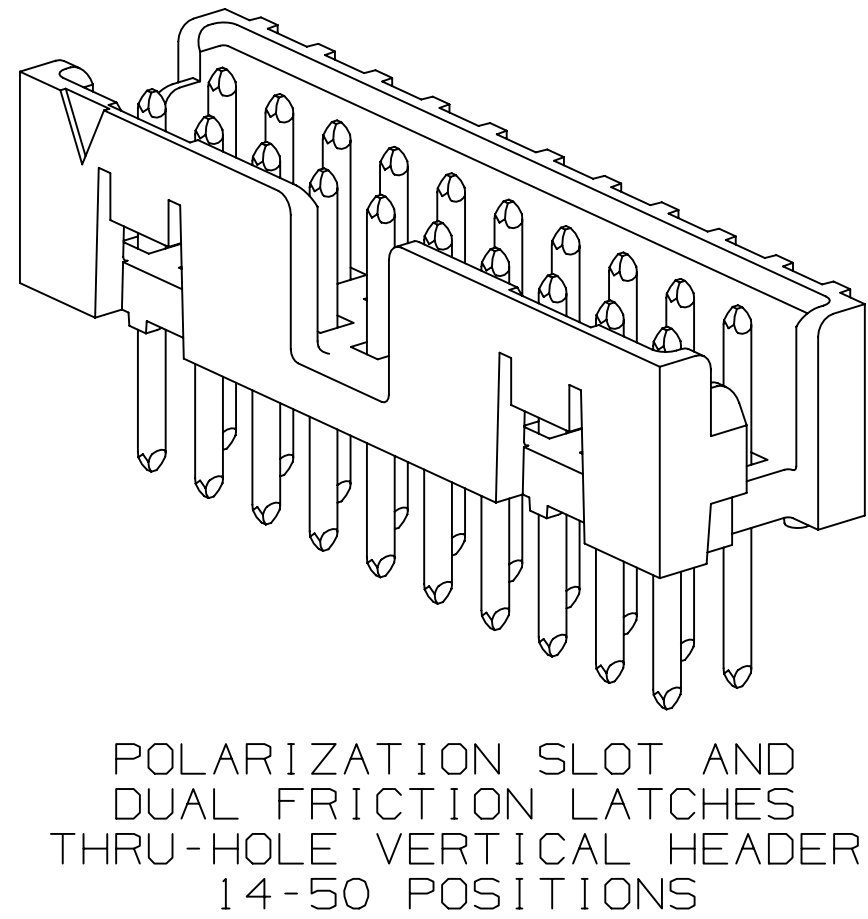
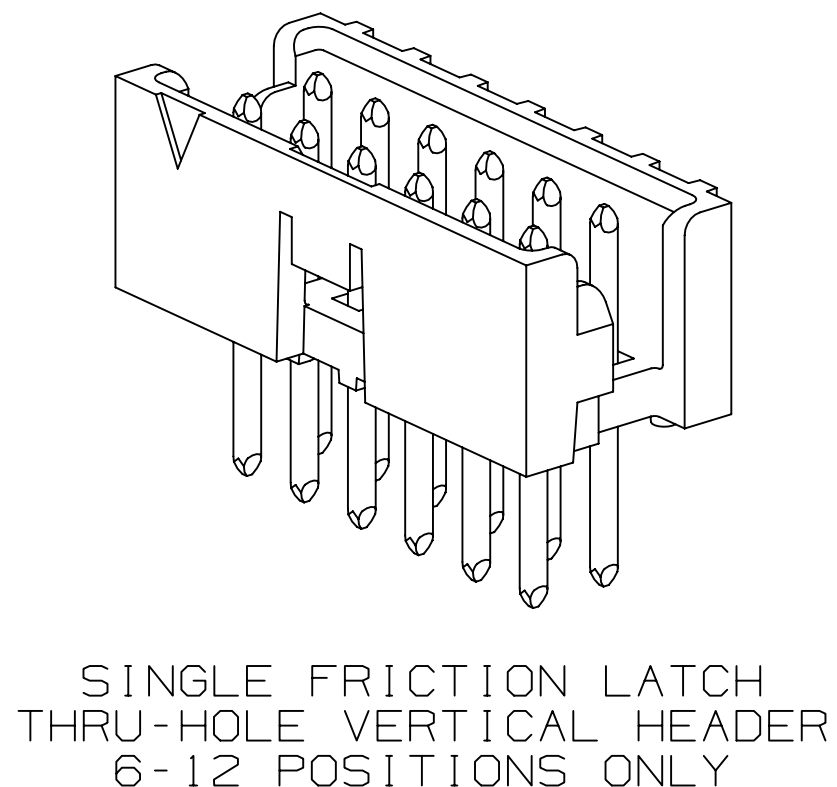
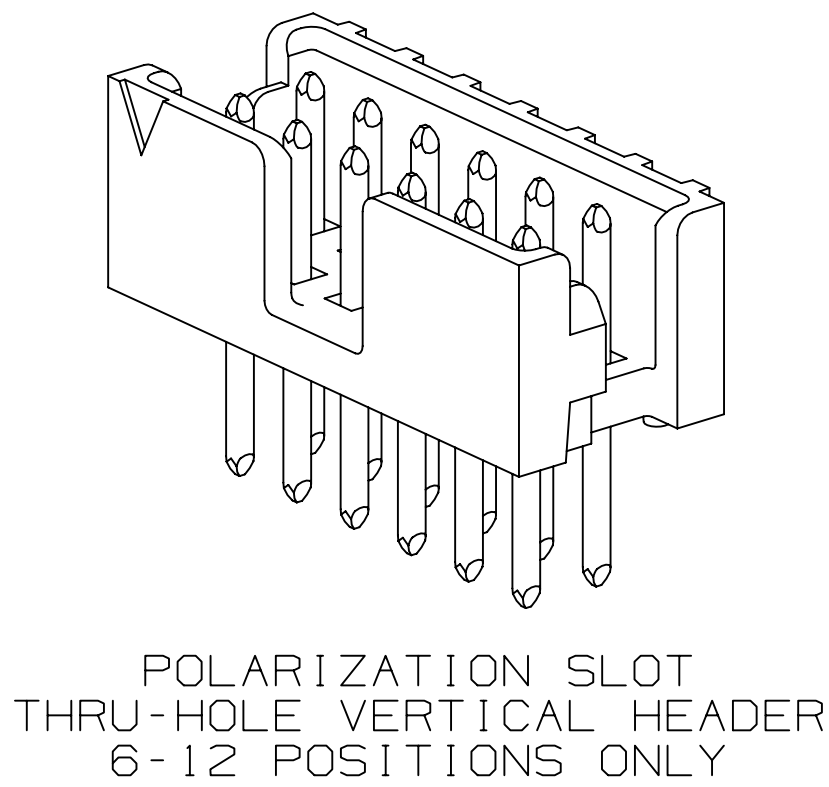


3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length [3] and Extended Length [4]



RECOMMENDED PCB HOLE PATTERN  
TOLERANCE = 0.05 [ .002 ]



| PERFORMANCE [5][7]          |                                      |
|-----------------------------|--------------------------------------|
| CURRENT:                    | 1A, 6 LINES ENERGIZED                |
| INSULATION RESISTANCE:      | >1 X 10 <sup>9</sup> OHMS AT 500 VDC |
| WITHSTANDING VOLTAGE:       | 500 VACrms AT SEA LEVEL              |
| TEMPERATURE RATING:         | -55° C TO +105° C                    |
| SOLDER PROCESS TEMPERATURE: | 260° C MAX PER IPC/JEDEC J-STD-020D  |

REFERENCE TABLE ON SHEET 4  
FOR AVAILABLE POSITIONS AND  
SOLDER TAIL LENGTHS

METRIC [ ENGLISH ]

- NOTES
- 1

MATERIAL:  
BODY: HIGH TEMPERATURE  
GLASS FILLED LCP, BLACK  
UL94V-0  
CONTACTS: COPPER ALLOY
- 2

PLATING:  
2.03-3.81  $\mu$ m [80-150  $\mu$ in]  
NICKEL UNDERPLATE.  
0.38  $\mu$ m [15  $\mu$ in] OR  
0.76  $\mu$ m [30 $\mu$ in] AVG GOLD  
ON WIPING AREA.  
5.08  $\mu$ m [200  $\mu$ in] MIN  
MATTE TIN ON SOLDER TAILS.
- 3

STANDARD LENGTH HEADERS  
MATE WITH 3M™ SOCKETS,  
158 SERIES (REFERENCE 3M  
DRAWING 78-5100-2358-9).
- 4

EXTENDED LENGTH HEADERS  
MATE WITH 3M™ SOCKETS,  
870 SERIES.
- 5

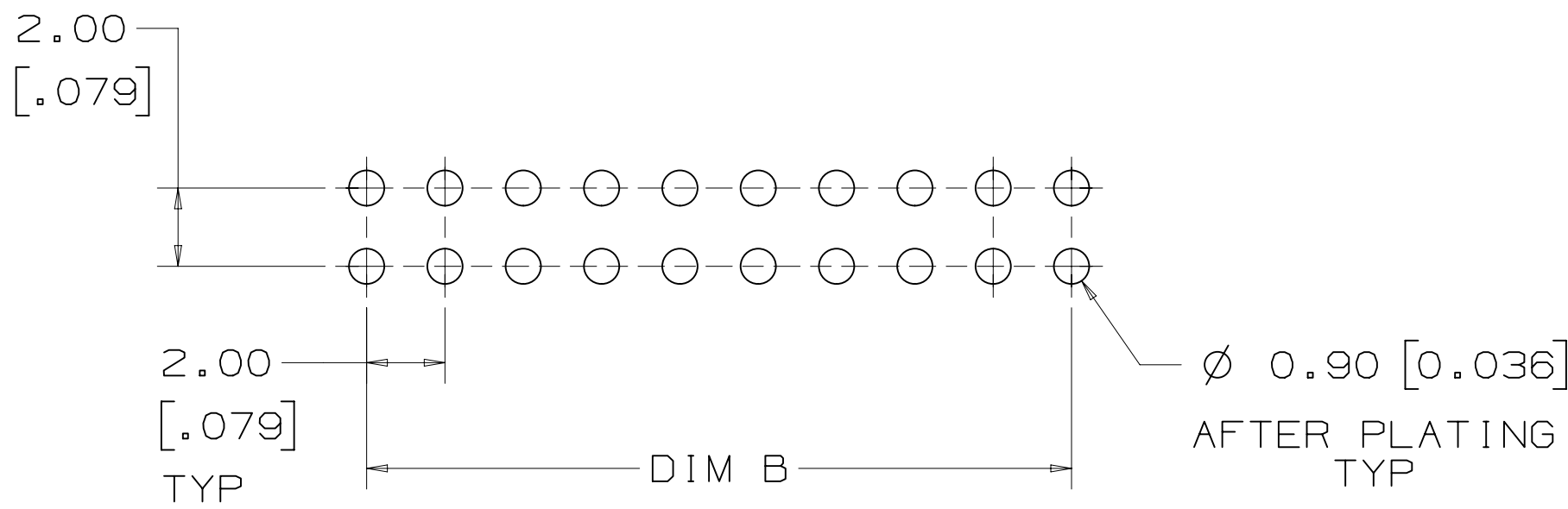
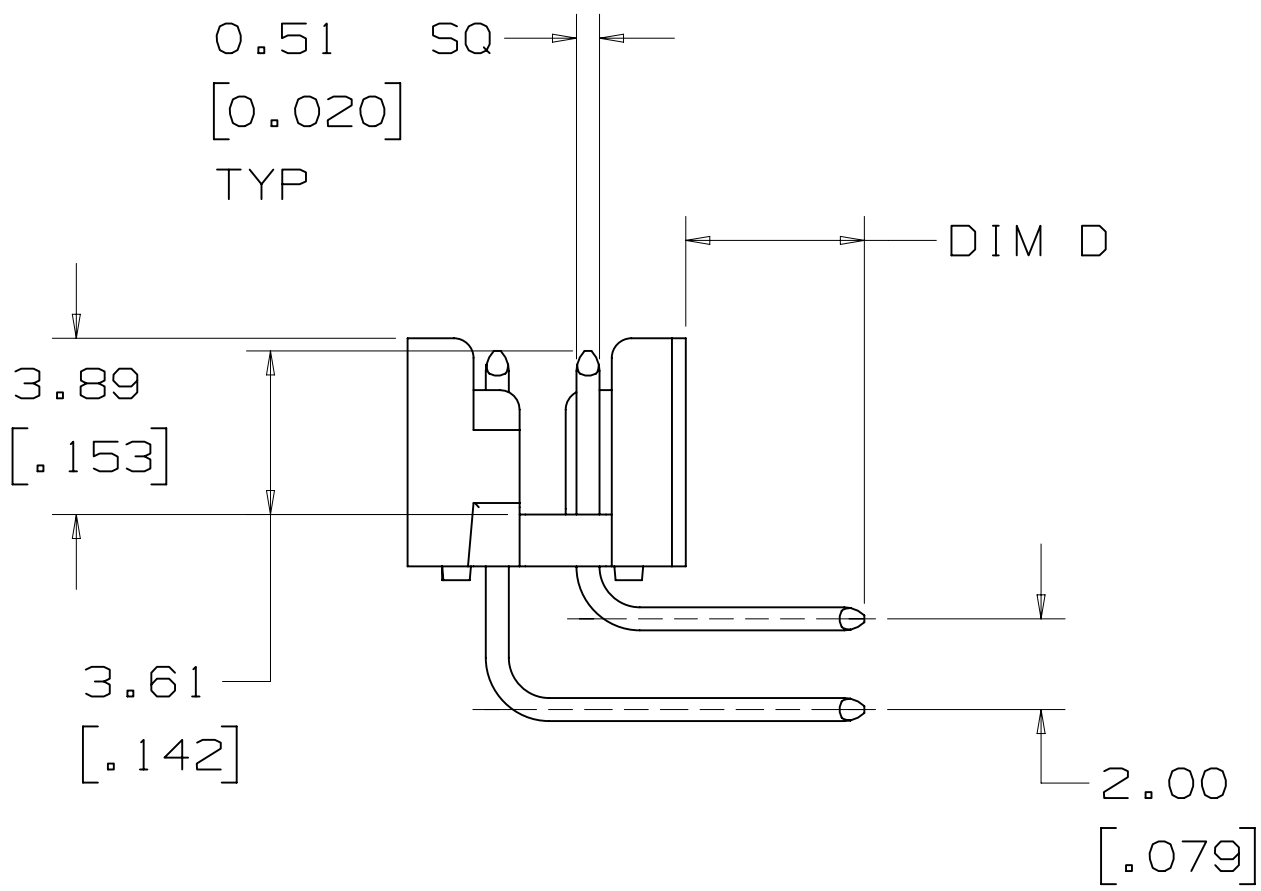
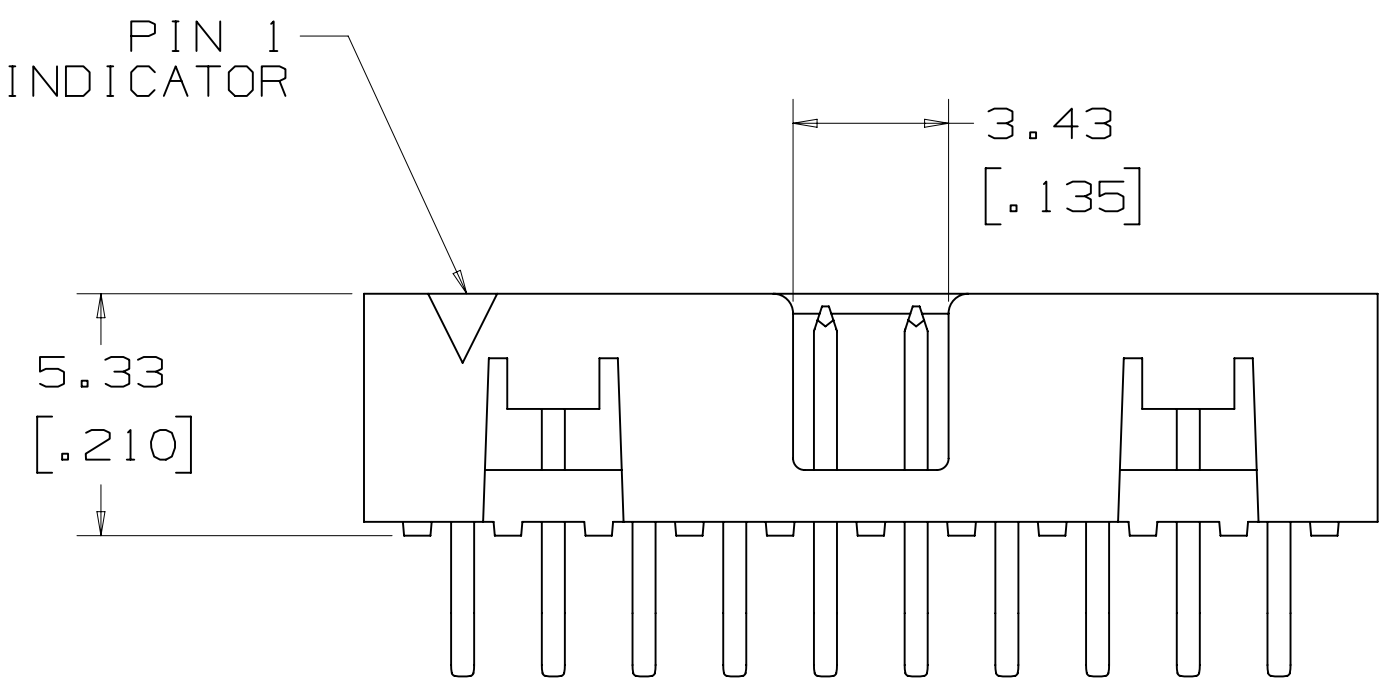
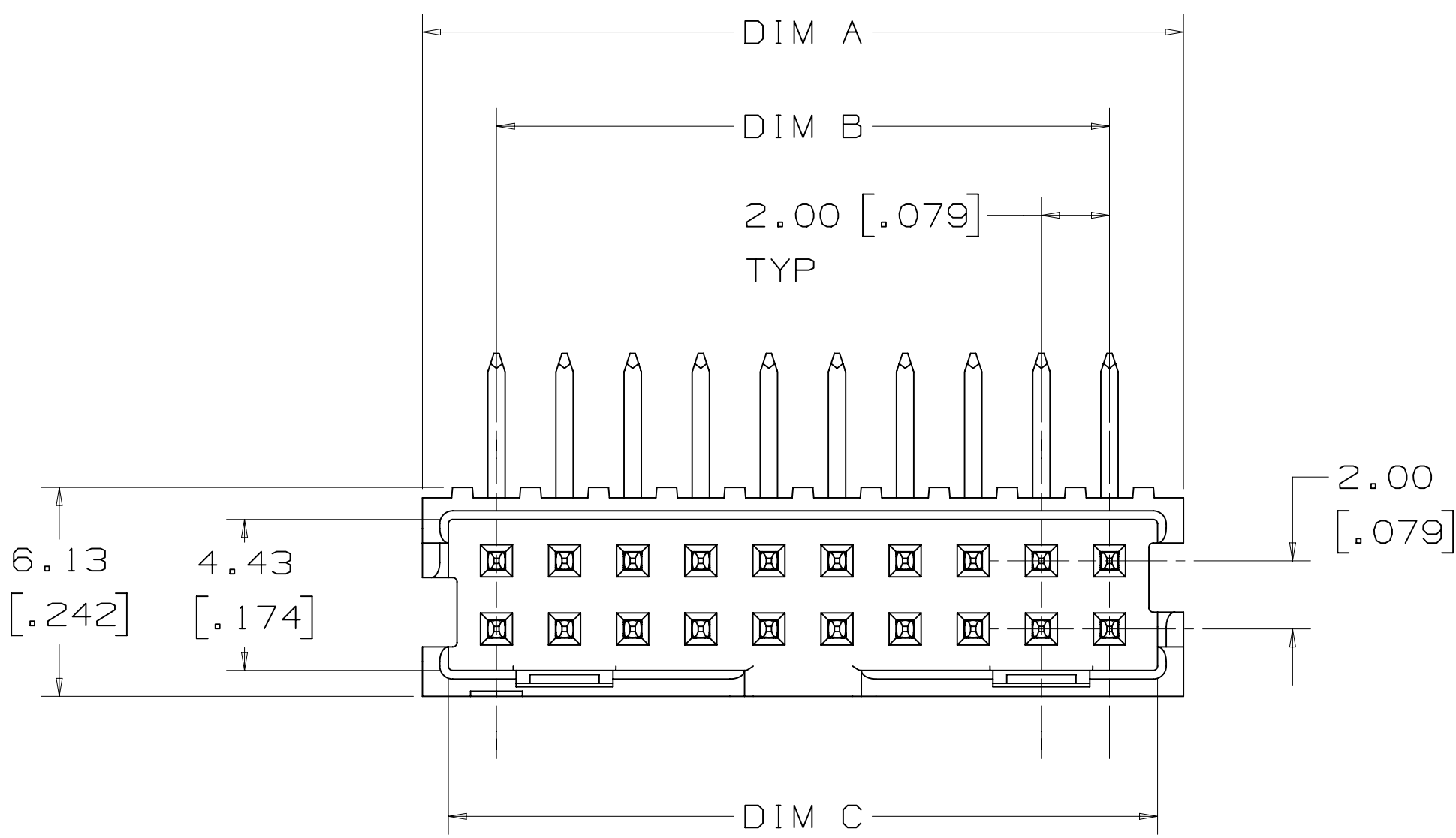
FOR PRODUCT  
SPECIFICATIONS AND  
WARRANTY INFORMATION SEE  
3M 78-5102-0078-1.
- 6

SEE THE REGULATORY  
INFORMATION APPENDIX (RIA)  
IN THE "RoHS COMPLIANCE"  
SECTION OF  
WWW.3MCONNECTOR.COM FOR  
COMPLIANCE INFORMATION  
(RIA E1 & C1 APPLY).
- 7

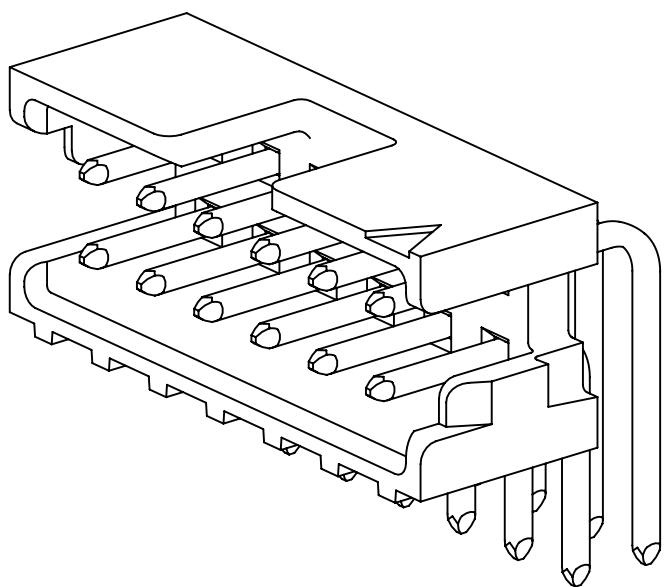
IN THE EVENT OF CONFLICT  
BETWEEN THIS DATA AND  
THAT CONTAINED IN THE  
PRODUCT SPECIFICATION,  
THE PRODUCT SPECIFICATION  
TAKES PRECEDENT.

|                                 |  |                            |  |                                                             |                 |             |  |                |    |
|---------------------------------|--|----------------------------|--|-------------------------------------------------------------|-----------------|-------------|--|----------------|----|
| DESIGN REFERENCE                |  | NEXT ASSEMBLY              |  | A 30741                                                     |                 | OCT 28,2010 |  | LDS            | SF |
| DISTRIBUTION CODES              |  | REV                        |  | ECO                                                         | INITIAL RELEASE |             |  |                |    |
| DIVISION                        |  | DATE                       |  | DATE                                                        |                 | DATE        |  | DATE           |    |
| DO NOT SCALE DRAWING            |  | L. SCHMIDT                 |  | JUL 29,2010                                                 |                 | MFG         |  | APPROVAL       |    |
| THIRD ANGLE PROJECTION          |  | CHKD                       |  | DATE                                                        |                 | S FELDMAN   |  | DATE           |    |
| INTERPRET PER ASME Y14.5 - 1994 |  | DIVISION CODE              |  | TOLERANCES EXCEPT AS NOTED                                  |                 | INCHES      |  | MILLIMETERS    |    |
| MAX SURFACE ROUGHNESS           |  | SCALE 6 1                  |  | 0.00                                                        |                 | 0.00        |  | 0              |    |
| 125 / ALL SURFACES              |  | TOLERANCES EXCEPT AS NOTED |  | 0.002 ±                                                     |                 | 0.002 ±     |  | 0 ±            |    |
| MARKED ONLY                     |  | TOLERANCES EXCEPT AS NOTED |  | 0.000 ±                                                     |                 | 0.000 ±     |  | 0 ±            |    |
| ANGLES ±1°                      |  | TOLERANCES EXCEPT AS NOTED |  | 0.000 ±                                                     |                 | 0.000 ±     |  | 0 ±            |    |
| CAGE NUMBER                     |  | TITLE                      |  | 3M SHROUDED BOARD MOUNT HEADER 2 MM X 2 MM PITCH 159 SERIES |                 | CAGE NUMBER |  | DRAWING NO.    |    |
| 125                             |  | 3M                         |  | 3M Center St. Paul, MN 55144                                |                 | D           |  | 78-5100-2359-7 |    |
| MODEL                           |  | REV.                       |  | A                                                           |                 | DET         |  | SHT 1 OF 4     |    |
|                                 |  |                            |  |                                                             |                 |             |  |                |    |

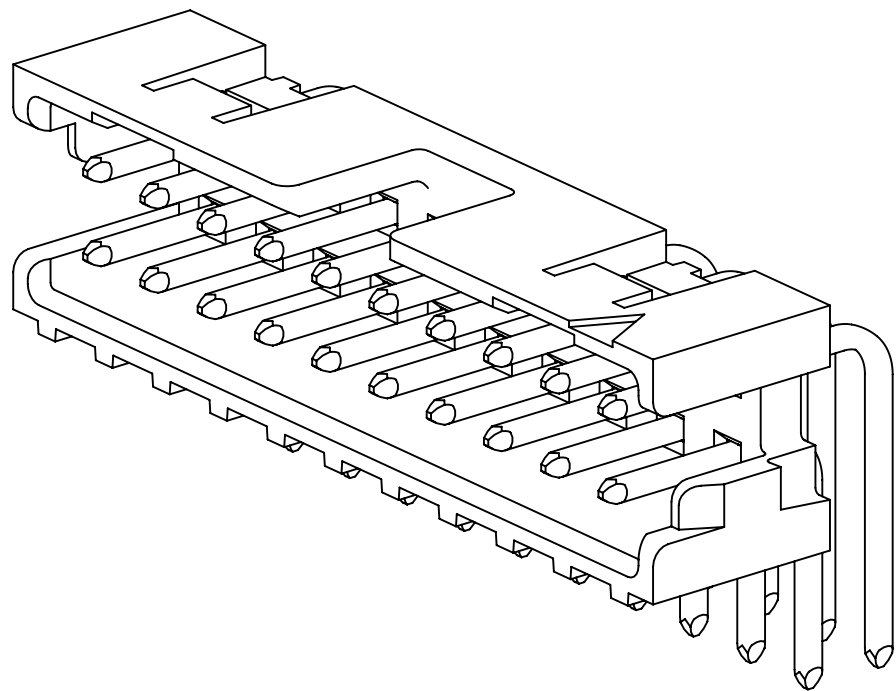
3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length [3] and Extended Length [4]



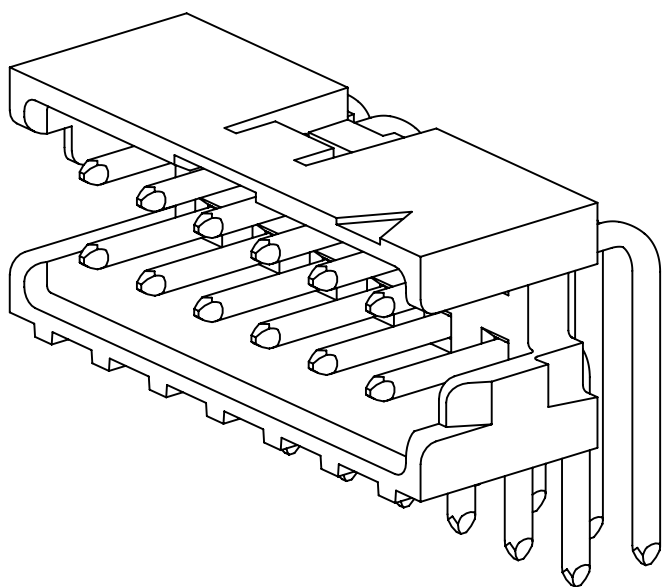
RECOMMENDED PCB HOLE PATTERN  
TOLERANCE = ±0.05 [ .002 ]



POLARIZATION SLOT  
RIGHT ANGLE HEADER  
6-12 POSITIONS ONLY



POLARIZATION SLOT AND  
DUAL FRICTION LATCHES  
RIGHT ANGLE HEADER  
14-50 POSITIONS



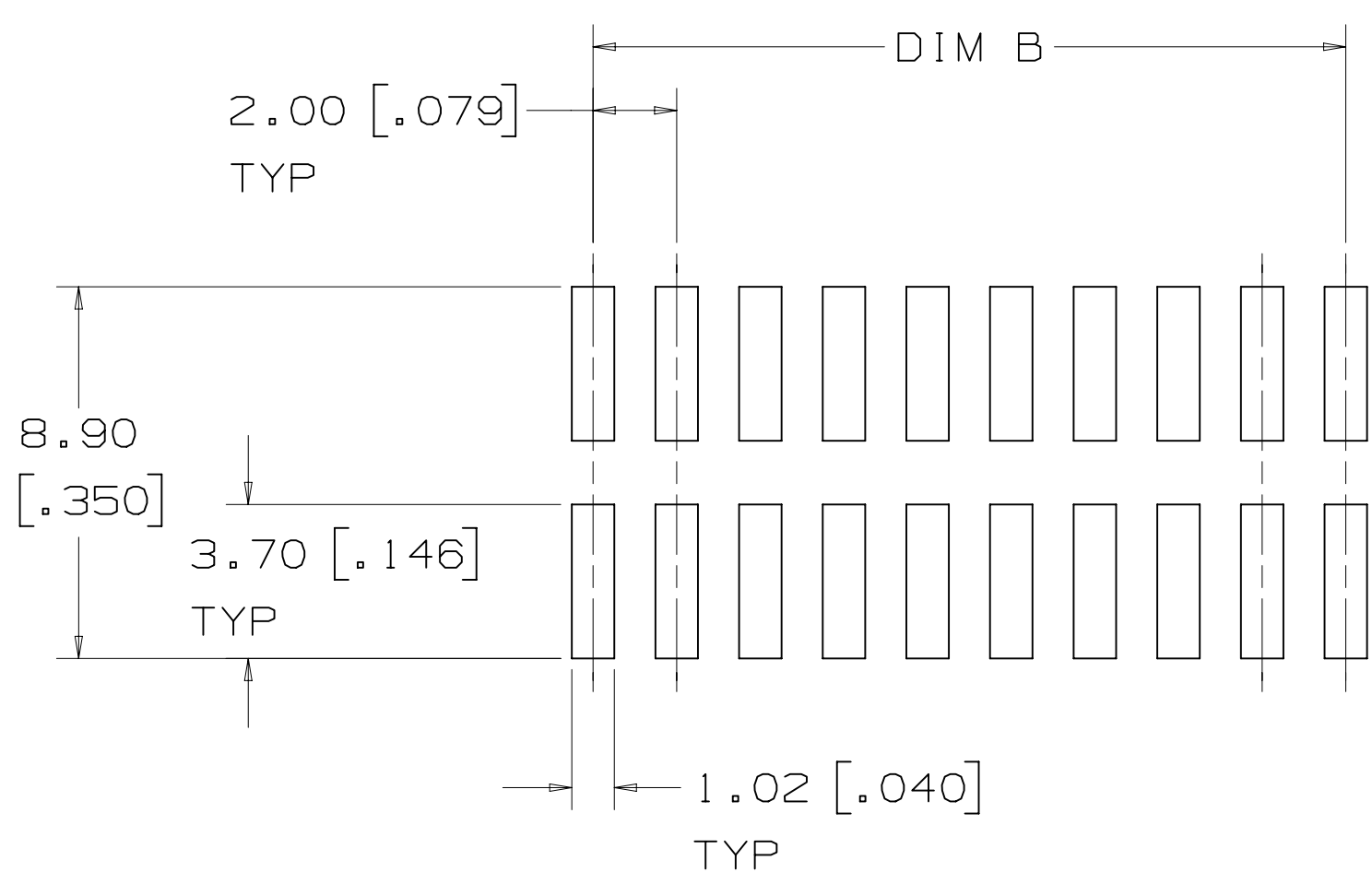
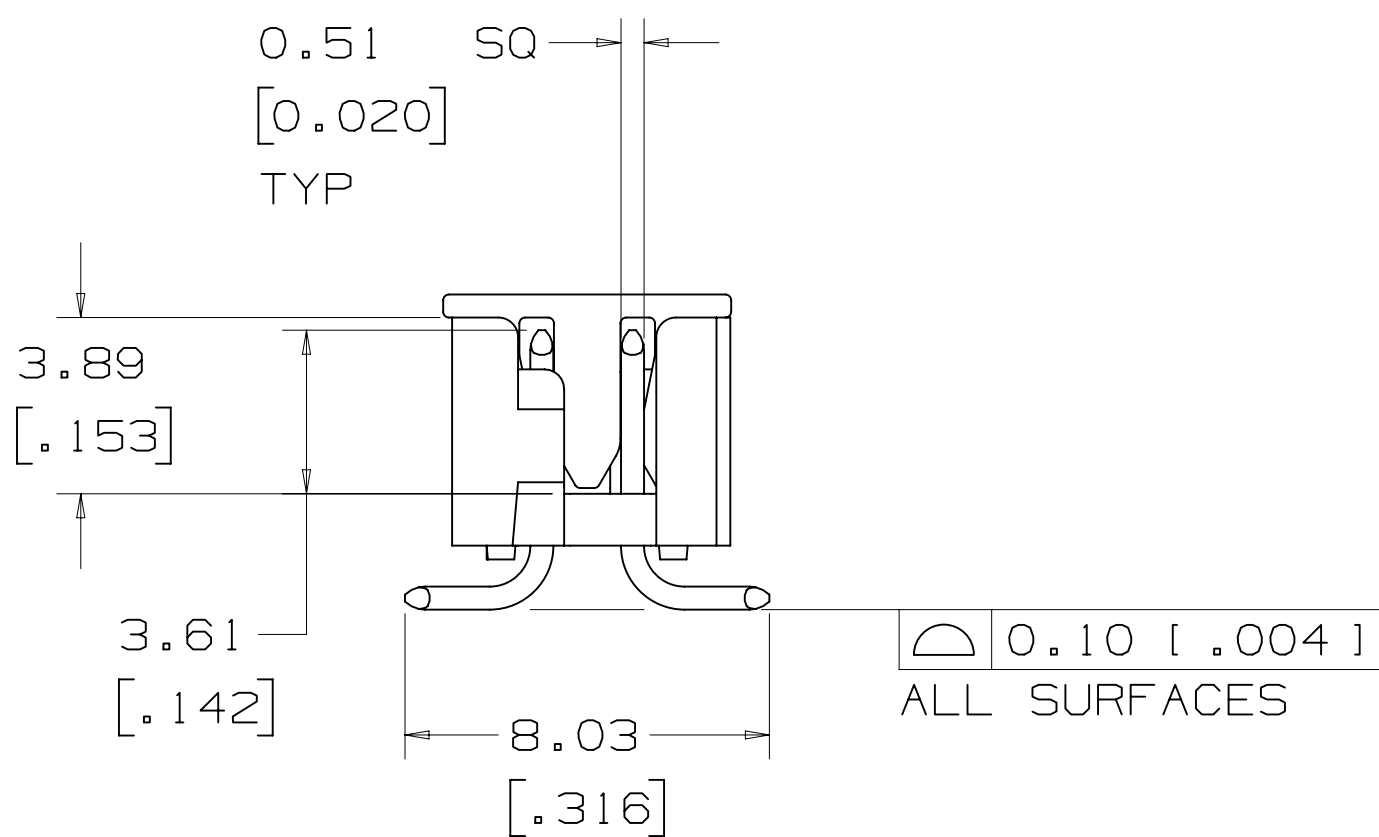
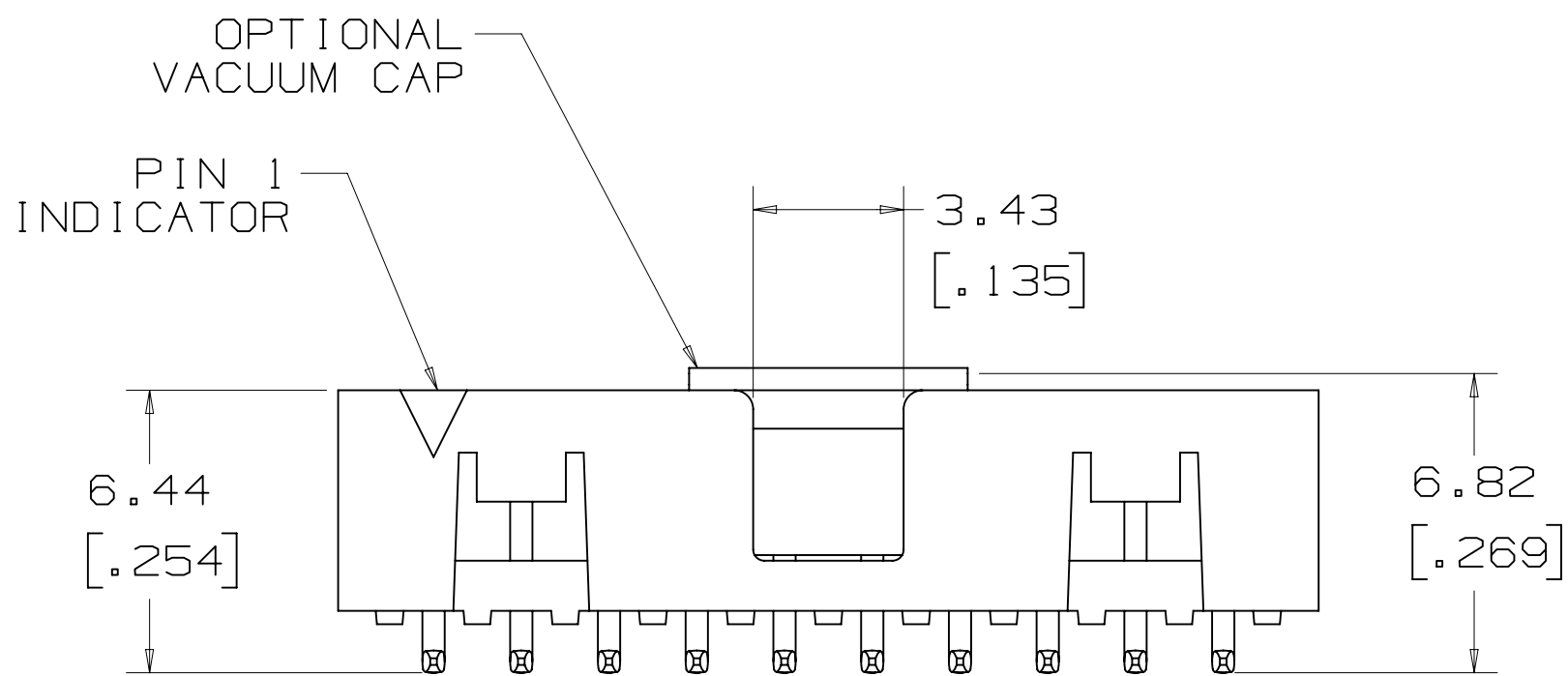
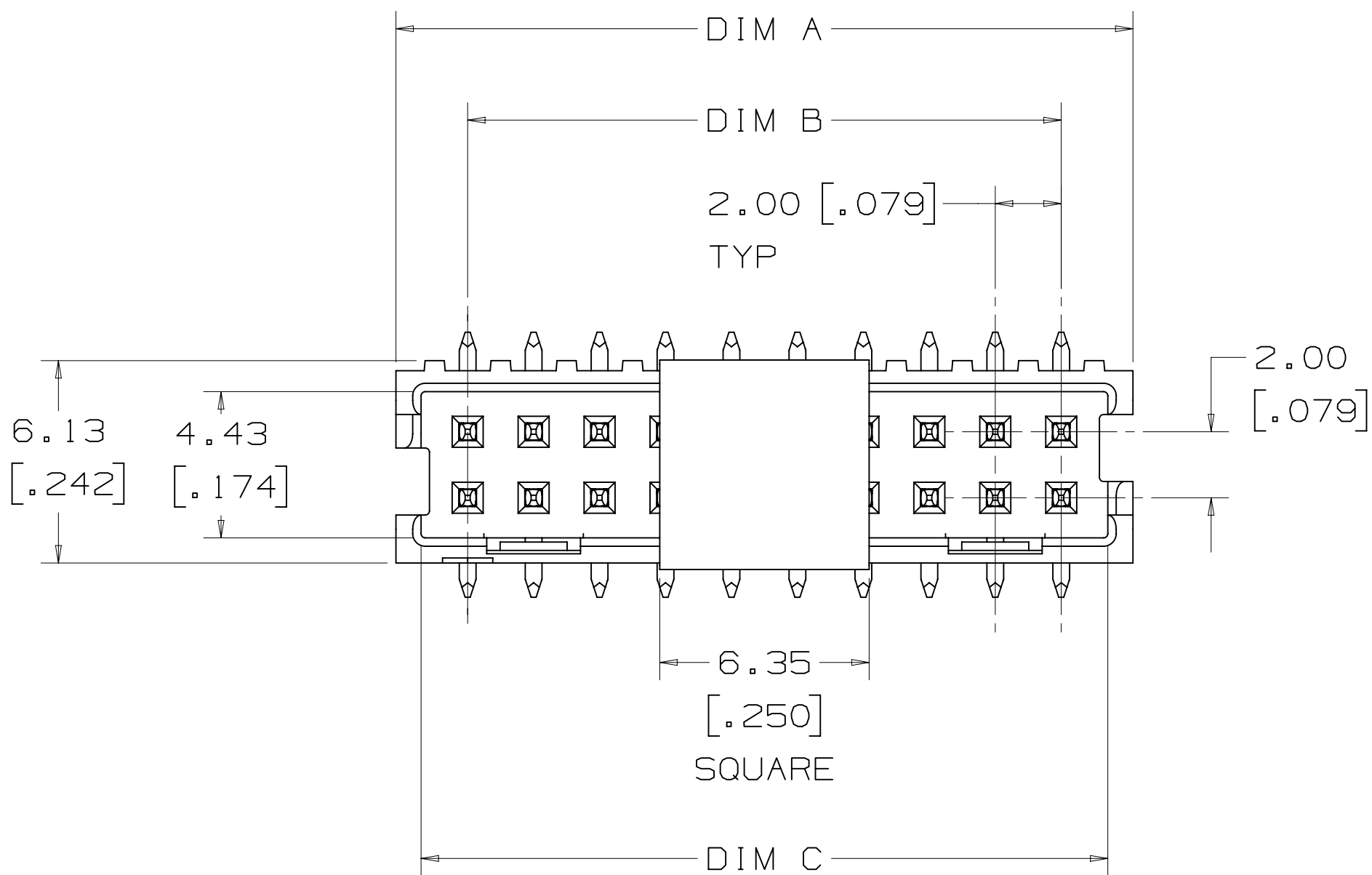
SINGLE FRICTION LATCH  
RIGHT ANGLE HEADER  
6-12 POSITIONS ONLY

REFERENCE TABLE ON SHEET 4  
FOR AVAILABLE POSITIONS AND  
SOLDER TAIL LENGTHS

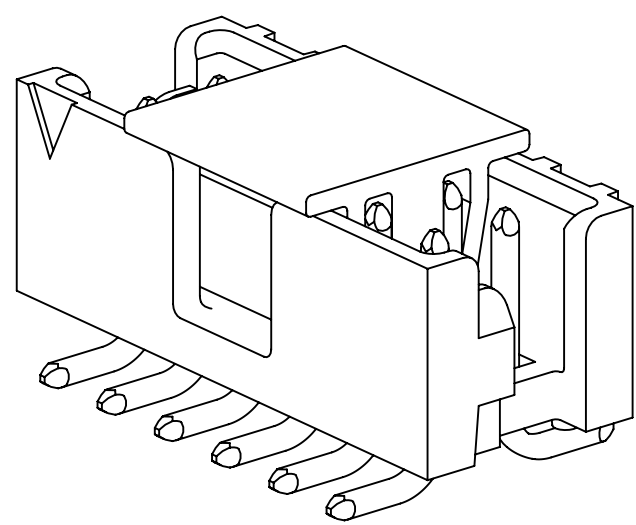
METRIC [ ENGLISH ]

|                        |  |                                 |  |                            |      |                            |        |      |      |
|------------------------|--|---------------------------------|--|----------------------------|------|----------------------------|--------|------|------|
| DESIGN REFERENCE       |  | NEXT ASSEMBLY                   |  | REV                        | ECO  | ISSUE DATE AND DESCRIPTION |        | DRFT | CHKD |
| DISTANCE               |  | CODES                           |  | L. SCHMIDT                 | DATE | JUL 29, 2010               | MFG    | DATE |      |
| DIVISION               |  | DIVISION CODE                   |  | CHKD                       | DATE |                            | APPROV | DATE |      |
| DO NOT SCALE DRAWING   |  | SCALE 4/1                       |  | TOLERANCES EXCEPT AS NOTED |      | INCHES                     |        |      |      |
| THIRD ANGLE PROJECTION |  | INTERPRET PER ASME Y14.5 - 1994 |  | MILLIMETERS                |      | MILLIMETERS                |        |      |      |
| MAX SURFACE ROUGHNESS  |  | 125 / ALL SURFACES              |  | ANGLES ±1°                 |      | CAGE NUMBER                |        |      |      |
|                        |  |                                 |  |                            |      | DRAWING NO.                |        |      |      |
|                        |  |                                 |  |                            |      | REV.                       |        |      |      |
|                        |  |                                 |  |                            |      | MODEL                      |        |      |      |
|                        |  |                                 |  |                            |      | SHT 2 OF 4                 |        |      |      |

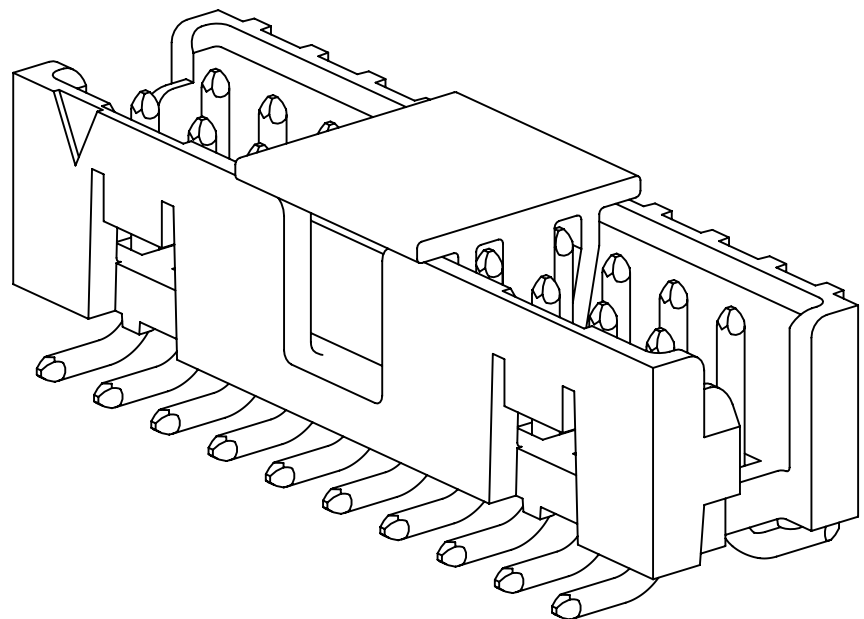
3M™ Shrouded Board Mount Header 2 mm X 2 mm Pitch 159 Series, Standard Length [3] and Extended Length [4]



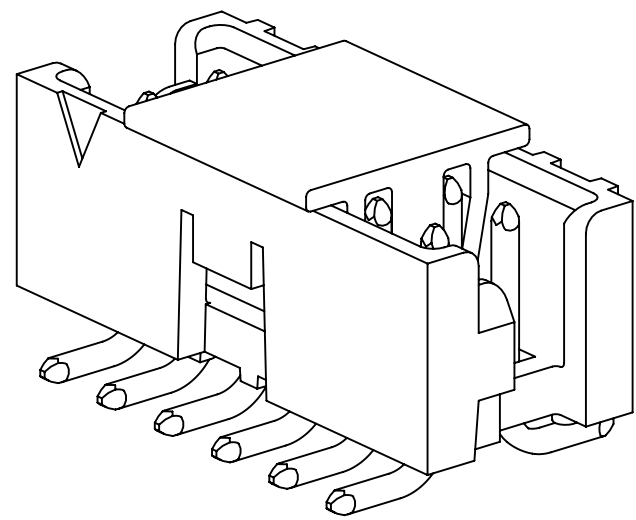
RECOMMENDED PCB PAD PATTERN  
TOLERANCE = ±0.08 [0.003]



POLARIZATION SLOT  
SURFACE MOUNT HEADER  
6-12 POSITIONS ONLY



POLARIZATION SLOT AND  
DUAL FRICTION LATCHES  
SURFACE MOUNT HEADER  
14-50 POSITIONS



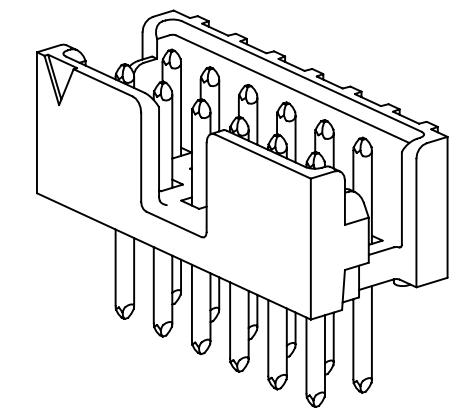
SINGLE FRICTION LATCH  
SURFACE MOUNT HEADER  
6-12 POSITIONS ONLY

REFERENCE TABLE ON SHEET 4  
FOR AVAILABLE POSITIONS

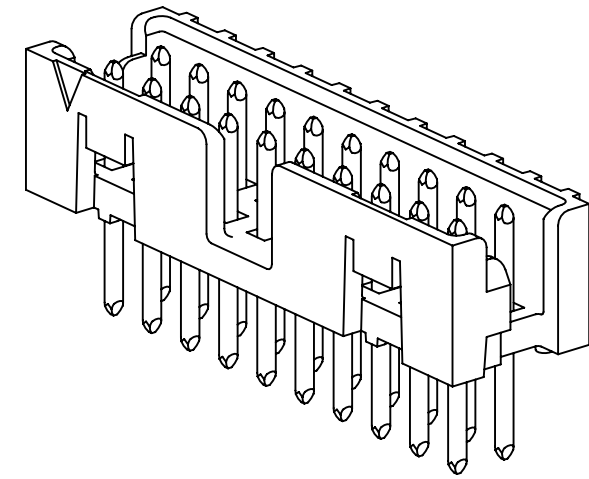
METRIC [ENGLISH]

|                        |  |                                 |  |                            |  |            |  |                            |  |             |  |        |  |
|------------------------|--|---------------------------------|--|----------------------------|--|------------|--|----------------------------|--|-------------|--|--------|--|
| DESIGN REFERENCE       |  | NEXT ASSEMBLY                   |  | REV                        |  | ECO        |  | ISSUE DATE AND DESCRIPTION |  | DRFT        |  | CHKD   |  |
| DISTANCE               |  | SCALE                           |  | L. SCHMIDT                 |  | DATE       |  | JUL 29, 2010               |  | MFG         |  | DATE   |  |
| DIVISION               |  | DIVISION CODE                   |  | S. FELDMAN                 |  | DATE       |  | AUG 09, 2010               |  | REV         |  | ECO    |  |
| DO NOT SCALE DRAWING   |  | SCALE 4/1                       |  | TOLERANCES EXCEPT AS NOTED |  | INCHES     |  | MILLIMETERS                |  | 0.00 ±      |  | 0.00 ± |  |
| THIRD ANGLE PROJECTION |  | INTERPRET PER ASME Y14.5 - 1994 |  | MAX SURFACE ROUGHNESS      |  | 0.00 ±     |  | 0.00 ±                     |  | 0.00 ±      |  | 0.00 ± |  |
| 125/                   |  | ALL SURFACES                    |  | MARKED ONLY                |  | ANGLES ±1° |  | CAGE NUMBER                |  | DRAWING NO. |  | REV.   |  |
| 125/                   |  | ALL SURFACES                    |  | MARKED ONLY                |  | ANGLES ±1° |  | CAGE NUMBER                |  | DRAWING NO. |  | REV.   |  |
| 125/                   |  | ALL SURFACES                    |  | MARKED ONLY                |  | ANGLES ±1° |  | CAGE NUMBER                |  | DRAWING NO. |  | REV.   |  |
| 125/                   |  | ALL SURFACES                    |  | MARKED ONLY                |  | ANGLES ±1° |  | CAGE NUMBER                |  | DRAWING NO. |  | REV.   |  |

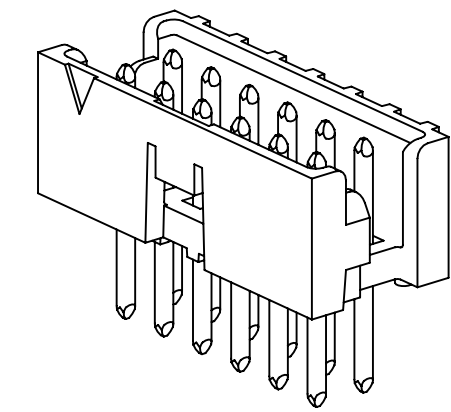
STANDARD LENGTH HEADERS  
ARE AVAILABLE



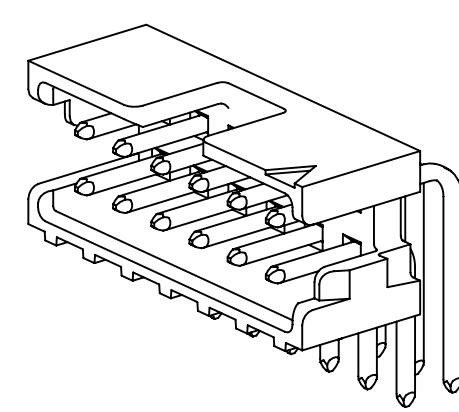
STANDARD LENGTH,  
POLARIZATION SLOT,  
VERTICAL HEADER  
6-12 POSITIONS ONLY



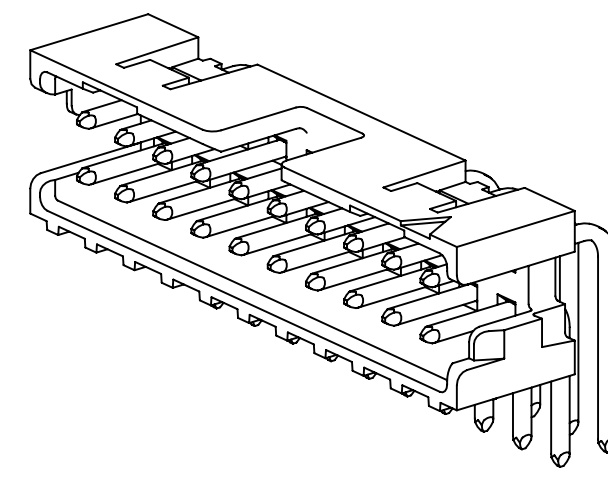
STANDARD LENGTH,  
POLARIZATION SLOT,  
DUAL FRICTION LATCHES,  
VERTICAL HEADER  
14-50 POSITIONS



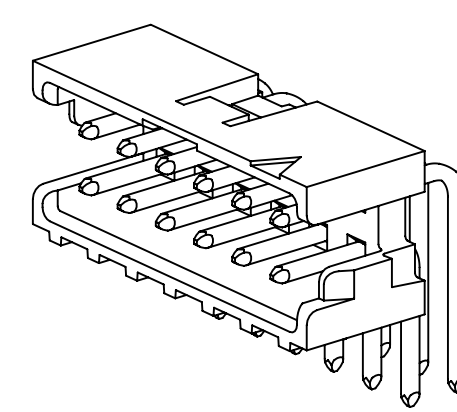
STANDARD LENGTH,  
SINGLE FRICTION LATCH,  
VERTICAL HEADER  
6-12 POSITIONS



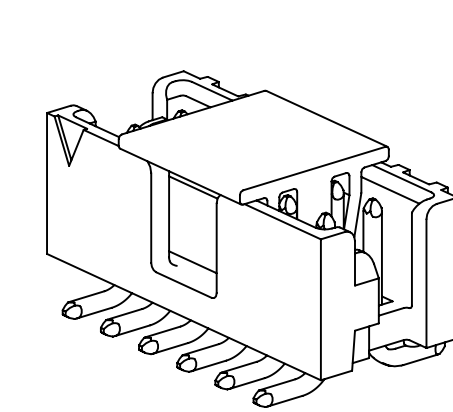
STANDARD LENGTH,  
POLARIZATION SLOT,  
RIGHT ANGLE HEADER  
6-12 POSITIONS



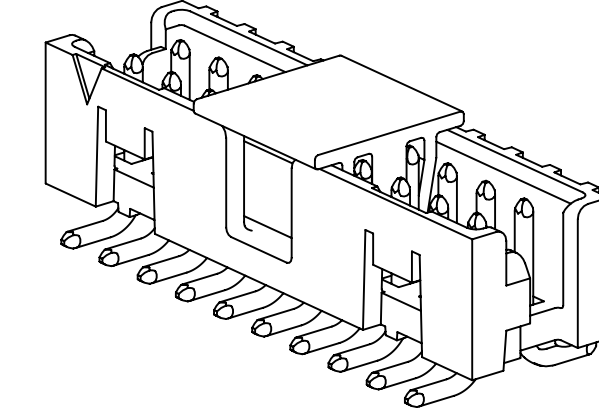
STANDARD LENGTH,  
POLARIZATION SLOT,  
DUAL FRICTION LATCHES,  
RIGHT ANGLE HEADER  
14-50 POSITIONS



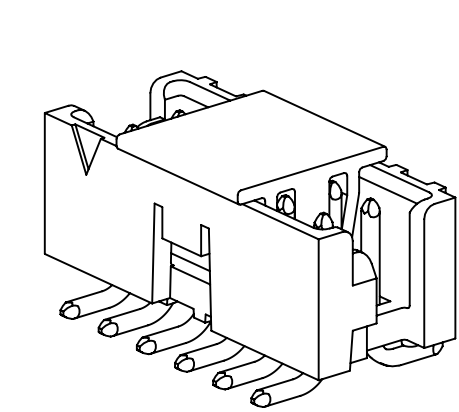
STANDARD LENGTH,  
SINGLE FRICTION LATCH,  
RIGHT ANGLE HEADER  
6-12 POSITIONS



STANDARD LENGTH,  
POLARIZATION SLOT,  
SURFACE MOUNT HEADER  
6-12 POSITIONS

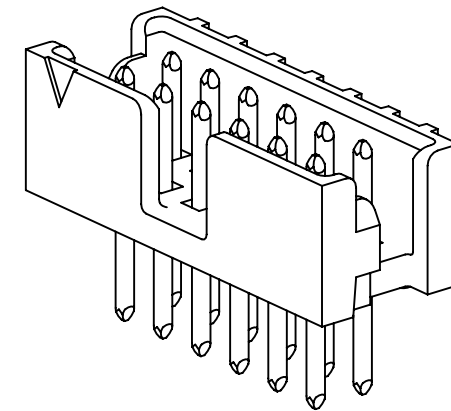


STANDARD LENGTH,  
POLARIZATION SLOT,  
DUAL FRICTION LATCHES,  
SURFACE MOUNT HEADER  
14-50 POSITIONS

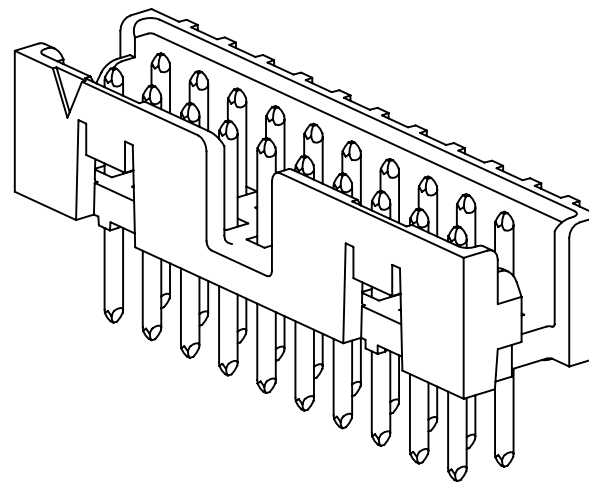


STANDARD LENGTH,  
SINGLE FRICTION LATCH,  
SURFACE MOUNT HEADER  
6-12 POSITIONS

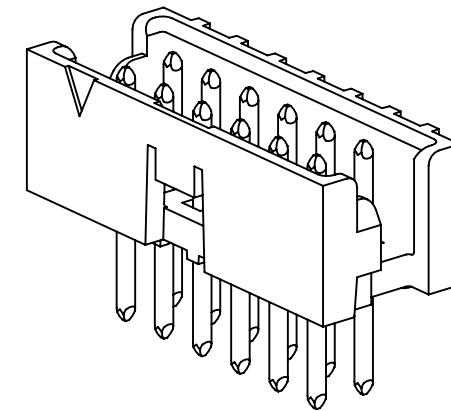
CALL 3M INTERCONNECT SOLUTIONS  
AT 800-225-5373 FOR AVAILABILITY  
OF EXTENDED LENGTH HEADERS



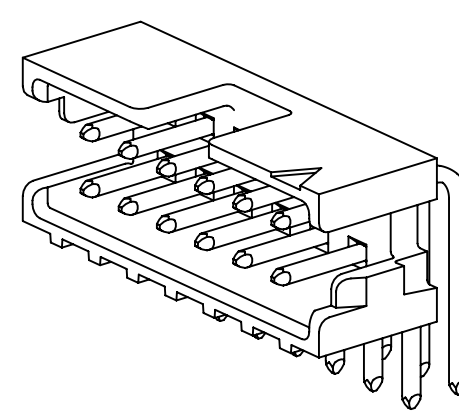
EXTENDED LENGTH,  
POLARIZATION SLOT,  
VERTICAL HEADER  
6-12 POSITIONS



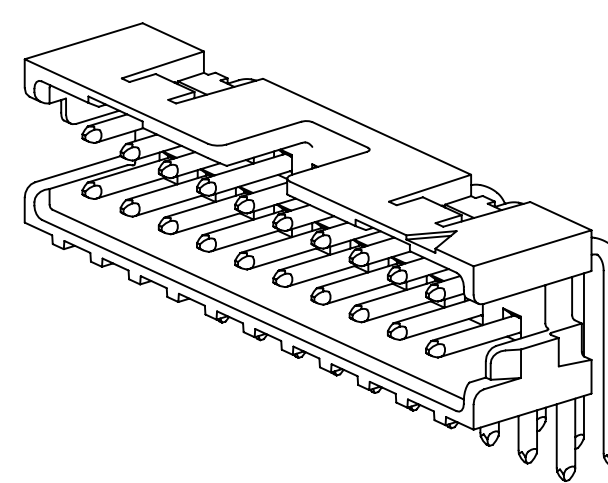
EXTENDED LENGTH,  
POLARIZATION SLOT,  
DUAL FRICTION LATCHES,  
VERTICAL HEADER  
14-50 POSITIONS



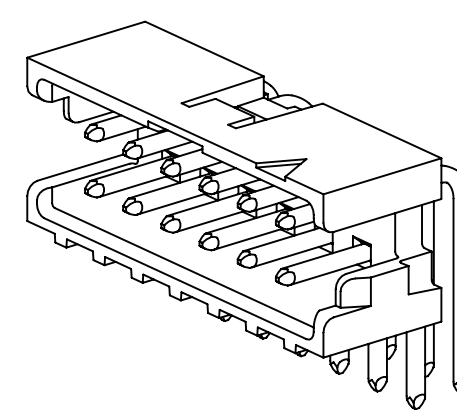
EXTENDED LENGTH,  
SINGLE FRICTION LATCH,  
VERTICAL HEADER  
6-12 POSITIONS



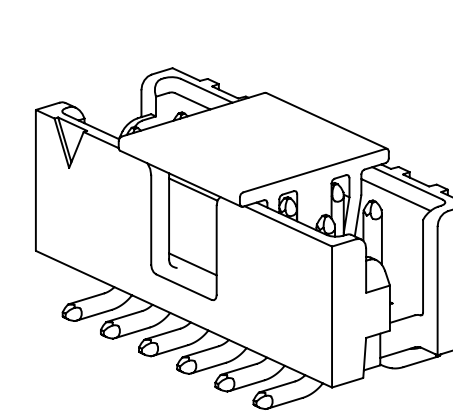
EXTENDED LENGTH,  
POLARIZATION SLOT,  
RIGHT ANGLE HEADER  
6-12 POSITIONS



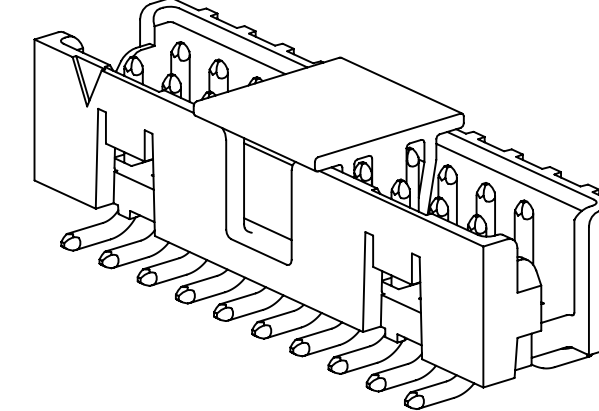
EXTENDED LENGTH,  
POLARIZATION SLOT,  
DUAL FRICTION LATCHES,  
RIGHT ANGLE HEADER  
14-50 POSITIONS



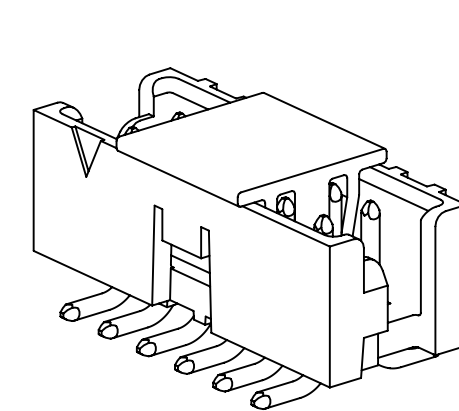
EXTENDED LENGTH,  
SINGLE FRICTION LATCH,  
RIGHT ANGLE HEADER  
6-12 POSITIONS



EXTENDED LENGTH,  
POLARIZATION SLOT,  
SURFACE MOUNT HEADER  
6-12 POSITIONS



EXTENDED LENGTH,  
POLARIZATION SLOT,  
DUAL FRICTION LATCHES,  
SURFACE MOUNT HEADER  
14-50 POSITIONS



EXTENDED LENGTH,  
SINGLE FRICTION LATCH,  
SURFACE MOUNT HEADER  
6-12 POSITIONS

TIER 2 - BETTER

TIER 2 - BETTER

1592XX-XXXX

TIER 2 = BETTER 0.38  $\mu$ m [ 15  $\mu$ in] GOLD

POSITION COUNT (SEE TABLE)

PART CONFIGURATION

2 = VERTICAL SMT

5 = RIGHT ANGLE THRU HOLE

6 = VERTICAL THRU HOLE

BODY LENGTH

0 = STANDARD LENGTH (MATES TO 158 SERIES)

1 = EXTENDED LENGTH (MATES TO 870 SERIES)

CONTACT TAIL LENGTH

2 = 2.84 mm [ .112 ]

3 = 3.94 mm [ .155 ]

POLARIZATION/LATCHING

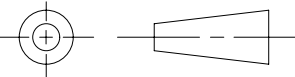
0 = POLARIZATION SLOT AND DUAL FRICTION LATCHES (14-50 POSITIONS ONLY)

1 = POLARIZATION SLOT (6-12 POSITIONS ONLY)

2 = SINGLE FRICTION LATCH (6-12 POSITIONS ONLY)

| NUMBER OF POSITIONS | SHROUDED BOX HEADER |                 |                 |                 |                 |               |               |
|---------------------|---------------------|-----------------|-----------------|-----------------|-----------------|---------------|---------------|
|                     | DIM A               |                 | DIM B           | DIM C           |                 | DIM D         |               |
|                     | STANDARD            | EXTENDED        |                 | STANDARD        | EXTENDED        |               |               |
| 6                   | 8.35 [ .329 ]       | 9.52 [ .375 ]   | 4.00 [ .157 ]   | 6.83 [ .269 ]   | 7.99 [ .315 ]   | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 8                   | 10.35 [ .407 ]      | 11.52 [ .453 ]  | 6.00 [ .236 ]   | 8.83 [ .347 ]   | 9.99 [ .393 ]   | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 10                  | 12.35 [ .486 ]      | 13.52 [ .532 ]  | 8.00 [ .315 ]   | 10.83 [ .426 ]  | 11.99 [ .472 ]  | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 12                  | 14.35 [ .565 ]      | 15.52 [ .611 ]  | 10.00 [ .394 ]  | 12.83 [ .505 ]  | 13.99 [ .551 ]  | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 14                  | 16.36 [ .644 ]      | 17.52 [ .690 ]  | 12.00 [ .472 ]  | 14.83 [ .584 ]  | 15.99 [ .630 ]  | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 16                  | 18.35 [ .722 ]      | 19.52 [ .768 ]  | 14.00 [ .551 ]  | 16.83 [ .662 ]  | 17.99 [ .708 ]  | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 20                  | 22.35 [ .880 ]      | 23.52 [ .926 ]  | 18.00 [ .709 ]  | 20.83 [ .820 ]  | 21.99 [ .866 ]  | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 22                  | 24.35 [ .959 ]      | 25.52 [ 1.005 ] | 20.00 [ .787 ]  | 22.83 [ .899 ]  | 23.99 [ .945 ]  | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 24                  | 26.35 [ 1.037 ]     | 27.52 [ 1.083 ] | 22.00 [ .866 ]  | 24.83 [ .977 ]  | 25.99 [ 1.023 ] | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 26                  | 28.35 [ 1.116 ]     | 29.52 [ 1.162 ] | 24.00 [ .945 ]  | 26.83 [ 1.056 ] | 27.99 [ 1.102 ] | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 30                  | 32.35 [ 1.274 ]     | 33.52 [ 1.320 ] | 28.00 [ 1.102 ] | 30.83 [ 1.214 ] | 31.99 [ 1.260 ] | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 34                  | 36.35 [ 1.431 ]     | 37.52 [ 1.477 ] | 32.00 [ 1.260 ] | 34.83 [ 1.371 ] | 35.99 [ 1.417 ] | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 40                  | 42.35 [ 1.667 ]     | 43.52 [ 1.713 ] | 38.00 [ 1.496 ] | 40.83 [ 1.607 ] | 41.99 [ 1.653 ] | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 44                  | 46.35 [ 1.825 ]     | 47.52 [ 1.871 ] | 42.00 [ 1.654 ] | 44.83 [ 1.765 ] | 45.99 [ 1.811 ] | 2.84 [ .112 ] | 3.94 [ .155 ] |
| 50                  | 52.35 [ 2.061 ]     | 53.52 [ 2.107 ] | 48.00 [ 1.890 ] | 50.83 [ 2.001 ] | 51.99 [ 2.047 ] | 2.84 [ .112 ] | 3.94 [ .155 ] |

METRIC [ ENGLISH ]

|                                                                                                                                      |  |                 |  |                                                                                                                                   |  |                  |  |                                                                                                                                                                                                                                                          |  |    |  |
|--------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|-----------------------------------------------------------------------------------------------------------------------------------|--|------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--|
| DESIGN REFERENCE                                                                                                                     |  | NEXT ASSEMBLY   |  | A 30741                                                                                                                           |  | OCT 28, 2010     |  | LDS                                                                                                                                                                                                                                                      |  | SF |  |
| REV                                                                                                                                  |  | ECO             |  | ISSUE DATE AND DESCRIPTION                                                                                                        |  | DRFT             |  | CHKD                                                                                                                                                                                                                                                     |  |    |  |
| DISTRIBUTION CODES                                                                                                                   |  | ENGR L. SCHMIDT |  | DATE JUL 29, 2010                                                                                                                 |  | MFG              |  | DATE                                                                                                                                                                                                                                                     |  |    |  |
|                                                                                                                                      |  | CHKD            |  | DATE                                                                                                                              |  | APPROV S FELDMAN |  | DATE AUG 09, 2010                                                                                                                                                                                                                                        |  |    |  |
| DIVISION                                                                                                                             |  |                 |  | DIVISION CODE                                                                                                                     |  |                  |  |                                                                                                                                                                                                                                                          |  |    |  |
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|  <p>THIRD ANGLE PROJECTION</p>                  |  |                 |  | <p>INCHES</p> <p>0.0 ±<br/>0.00 ±<br/>0.000 ±<br/>0.000 ±</p>                                                                     |  |                  |  | <p>TOLERANCES EXCEPT AS NOTED</p>                                                                                                                                                                                                                        |  |    |  |
| <p>INTERPRET PER ASME Y14.5 - 1994</p>                                                                                               |  |                 |  | <p>MILLIMETERS</p> <p>0 ±<br/>0.0 ±<br/>0.00 ±0.13<br/>0.000 ±</p>                                                                |  |                  |  | <p>TITLE</p> <p>3M SHROUDED BOARD MOUNT HEADER 2 MM X 2 MM PITCH 159 SERIES</p>                                                                                                                                                                          |  |    |  |
| <p>MAX SURFACE ROUGHNESS 125</p> <p><input type="checkbox"/> ALL SURFACES</p> <p><input checked="" type="checkbox"/> MARKED ONLY</p> |  |                 |  | <p>ANGLES ± 1°</p>                                                                                                                |  |                  |  | <p>CASE NUMBER</p> <p><b>D</b> 78-5100-2359-7</p>                                                                                                                                                                                                        |  |    |  |
|                                                                                                                                      |  |                 |  | <p>MODEL</p>                                                                                                                      |  |                  |  | <p>REV. A</p>                                                                                                                                                                                                                                            |  |    |  |
|                                                                                                                                      |  |                 |  | <p>DET. LJS</p>                                                                                                                   |  |                  |  | <p>YES <input type="checkbox"/> NO <input checked="" type="checkbox"/></p>                                                                                                                                                                               |  |    |  |
|                                                                                                                                      |  |                 |  | <p>SHT 4 OF 4</p>                                                                                                                 |  |                  |  |                                                                                                                                                                                                                                                          |  |    |  |

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