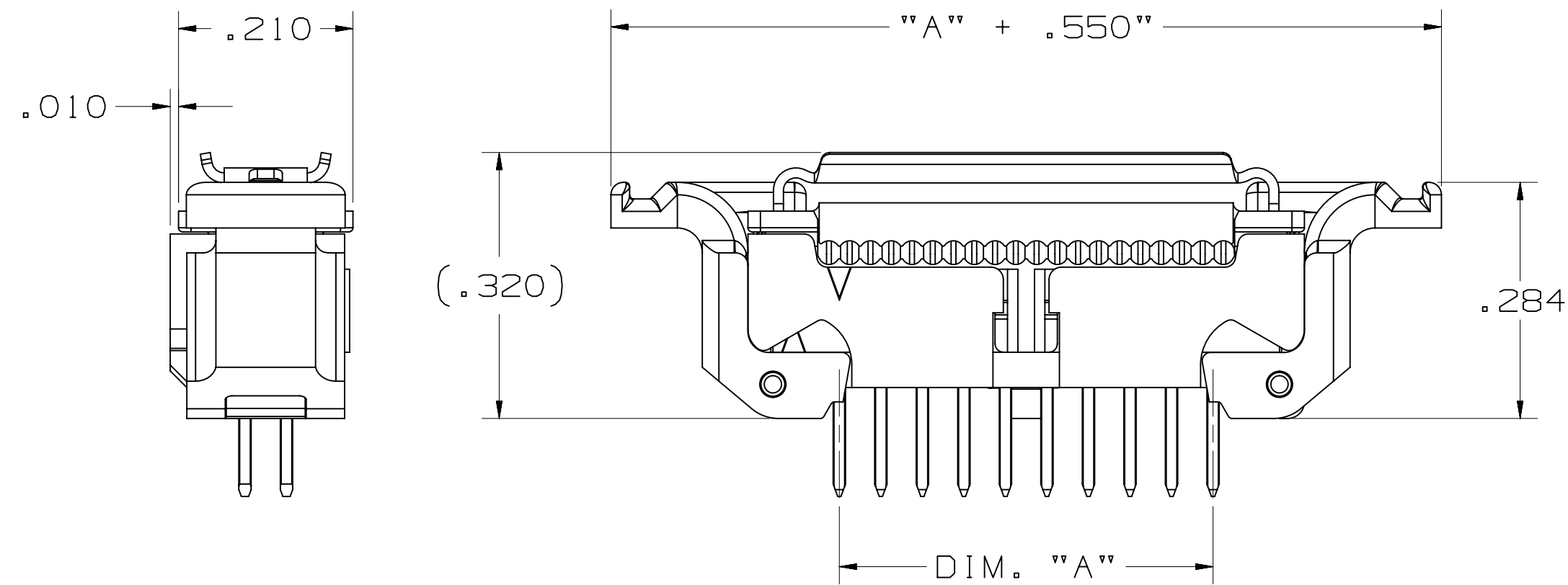
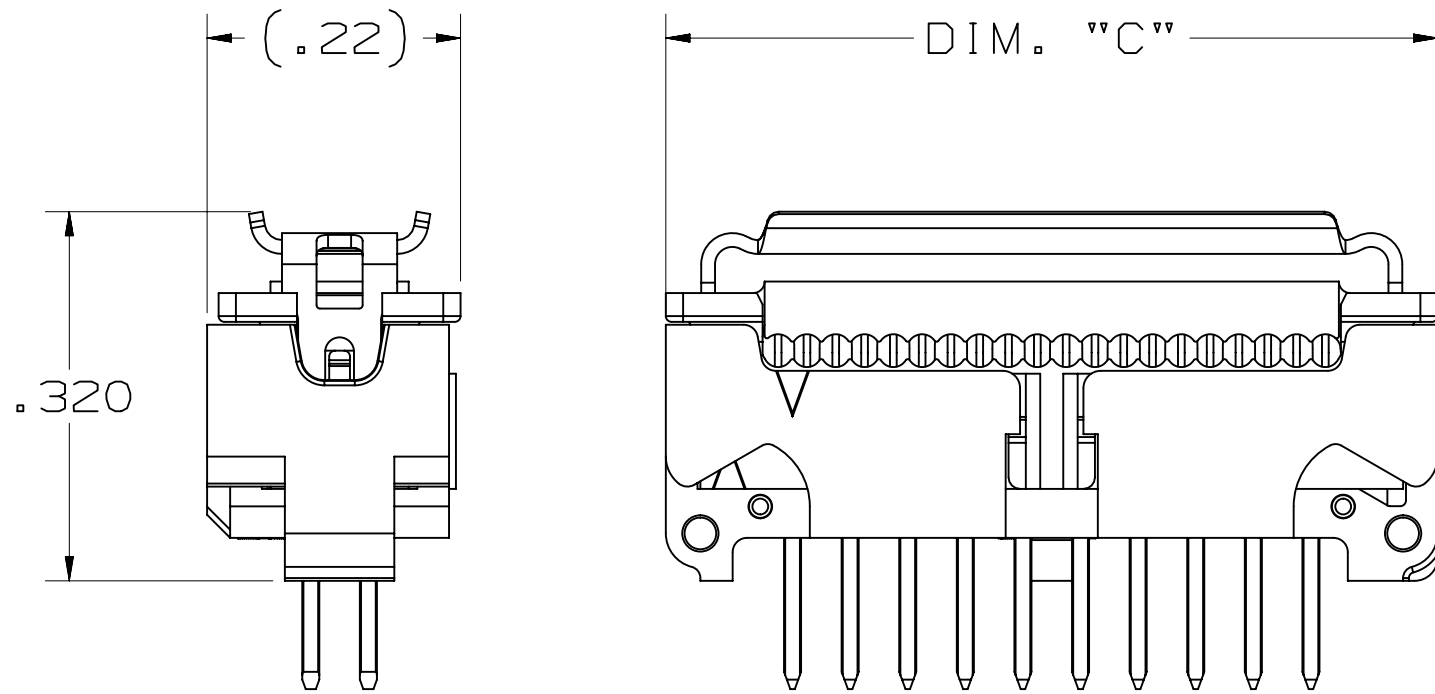


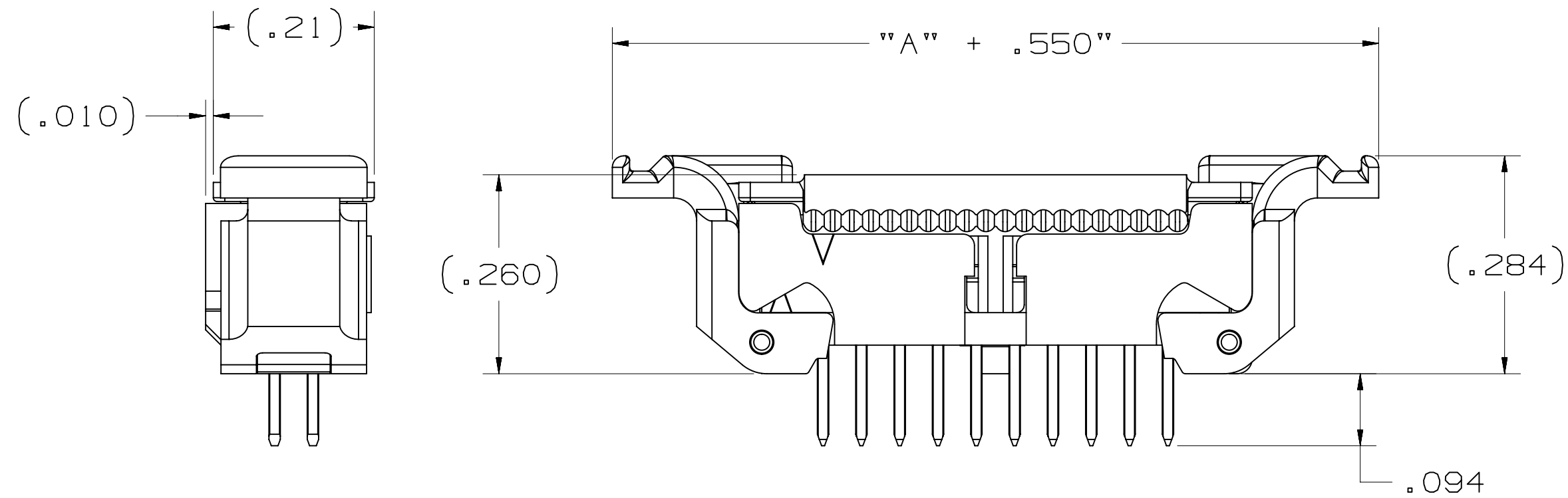
3M<sup>TH</sup> SHROUDED BOARDMOUNT HEADER, .05" X .05" PITCH,  
LATCH AND EJECT, 452 SERIES



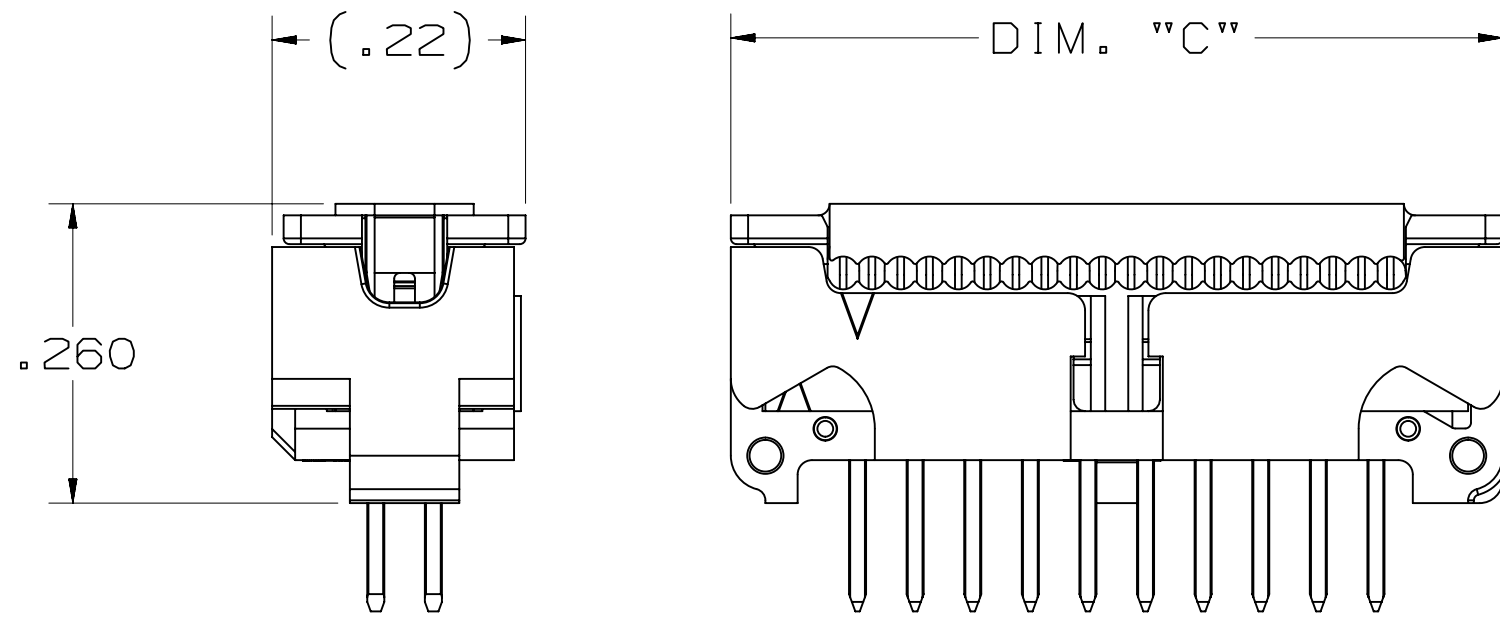
VERTICAL HEADER & SOCKET ASSEMBLY  
WITH LOW PROFILE LATCHES & STRAIN RELIEF



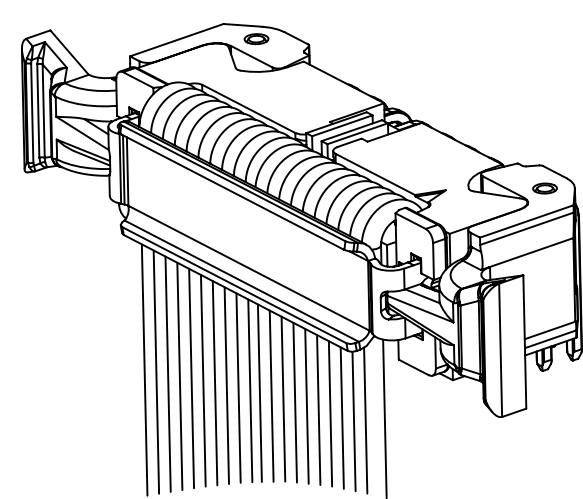
VERTICAL HEADER & SOCKET ASSEMBLY  
NO LATCHES WITH STRAIN RELIEF



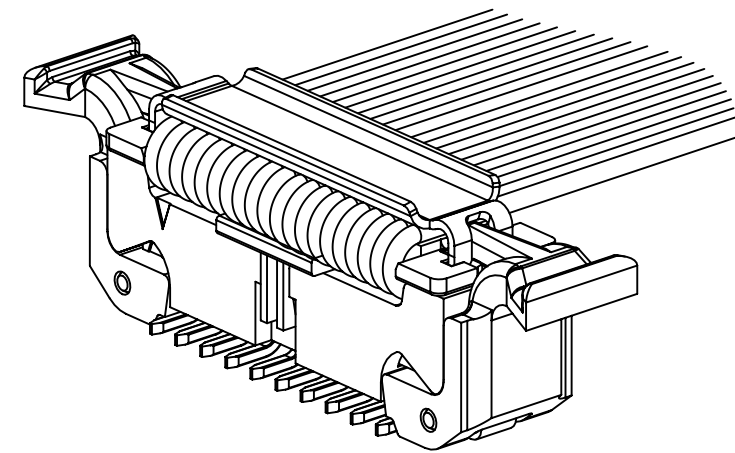
VERTICAL HEADER & SOCKET ASSEMBLY  
WITH LATCHES NO STRAIN RELIEF



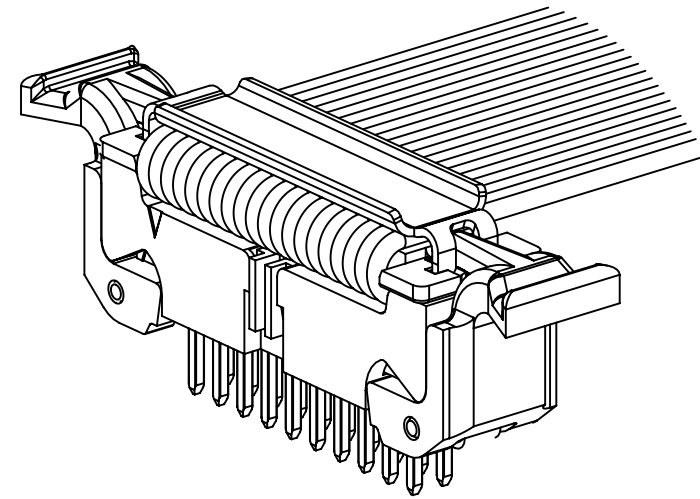
VERTICAL HEADER & SOCKET ASSEMBLY  
NO LATCHES NO STRAIN RELIEF



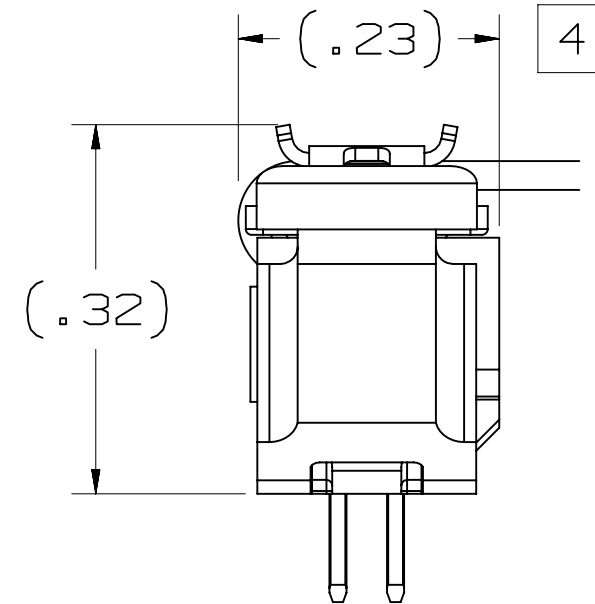
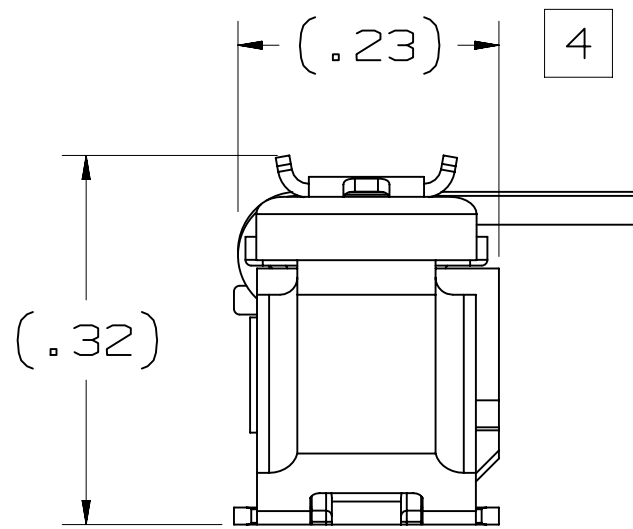
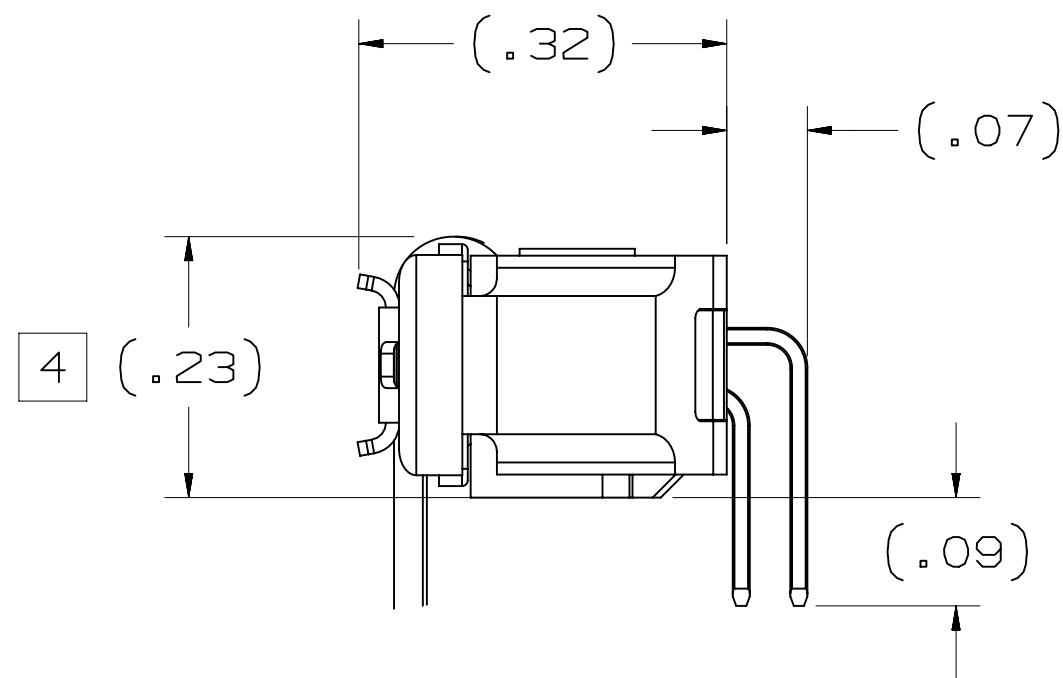
RA ASSEMBLY



SMT ASSEMBLY



VERTICAL ASSEMBLY



| No.<br>Positions | Dim<br>"A" | Dim<br>"C" |
|------------------|------------|------------|
| 4                | .050       | .270       |
| 6                | .100       | .320       |
| 8                | .150       | .370       |
| 10               | .200       | .420       |
| 12               | .250       | .470       |
| 14               | .300       | .520       |
| 16               | .350       | .570       |
| 20               | .450       | .670       |
| 30               | .700       | .920       |

- NOTES
1. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
  2. REGULATORY INFORMATION: ROHS COMPLIANT. SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "ROHS COMPLIANCE" SECTION OF WWW.3MCONNECTORS.COM FOR COMPLIANCE INFORMATION (RIA E1 & C1 APPLY)
  3. OTHER PIN COUNTS AVAILABLE UPON REQUEST. CONTACT 3M.
  4. DIMENSIONS IS TAKEN FROM EDGE OF CABLE TO SIDE OF CONNECTOR.

3M<sup>TM</sup> ELECTRONIC SOLUTIONS DIVISION  
INTERCONNECT SOLUTIONS  
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|                            |                                    |                                                                 |                                         |                                                                                                                                                                                                                                                                                                   |                |                                                     |
|----------------------------|------------------------------------|-----------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------|
| DESIGN REFERENCE           | NEXT ASSEMBLY                      | REV                                                             | ECO                                     | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                                                                                                        | DRFT           | CHKD                                                |
| ARM                        | ARM                                | FEB 11, 2011                                                    | MFG                                     | DATE                                                                                                                                                                                                                                                                                              | DATE           | DATE                                                |
| CHKD                       | DATE                               | APPRV                                                           | S. NEU                                  | DATE                                                                                                                                                                                                                                                                                              | FEB 11, 2011   | DATE                                                |
| DIVISION                   | Interconnect Solutions             | DIVISION CODE                                                   | ISD                                     | © 3M COPYR[IGHT] 2013<br>3M Center<br>St. Paul,<br>MN 55144<br>This document and the information it contains are<br>3M property and may not be reproduced or further<br>distributed without 3M permission, or used or<br>disclosed other than for 3M authorized purposes.<br>All rights reserved. | TITLE          | CONNECTOR SYSTEM,<br>.05 X .05, MATED<br>DIMENSIONS |
| DO NOT<br>SCALE<br>DRAWING | SCALE<br>6<br>1                    | TOLERANCES<br>EXCEPT AS<br>NOTED                                | INCHES<br>±.1<br>±.02<br>±.010<br>±.005 | MILLIMETERS<br>0<br>±<br>0<br>±<br>0.00<br>±<br>0.00<br>±<br>0.00                                                                                                                                                                                                                                 | CAGE<br>NUMBER | D 78-5100-2396-9                                    |
| THIRD ANGLE PROJECTION     | INTERPRET PER<br>ASME Y14.5 - 1994 | MAX SURFACE ROUGHNESS<br>R <sub>A</sub> SURFACES<br>MARKED ONLY | ANGLES                                  | MODEL                                                                                                                                                                                                                                                                                             | 452            | REV.<br>B                                           |
| LISTS                      | YES                                | NO                                                              | SHT                                     | 1                                                                                                                                                                                                                                                                                                 | OF             | 1                                                   |