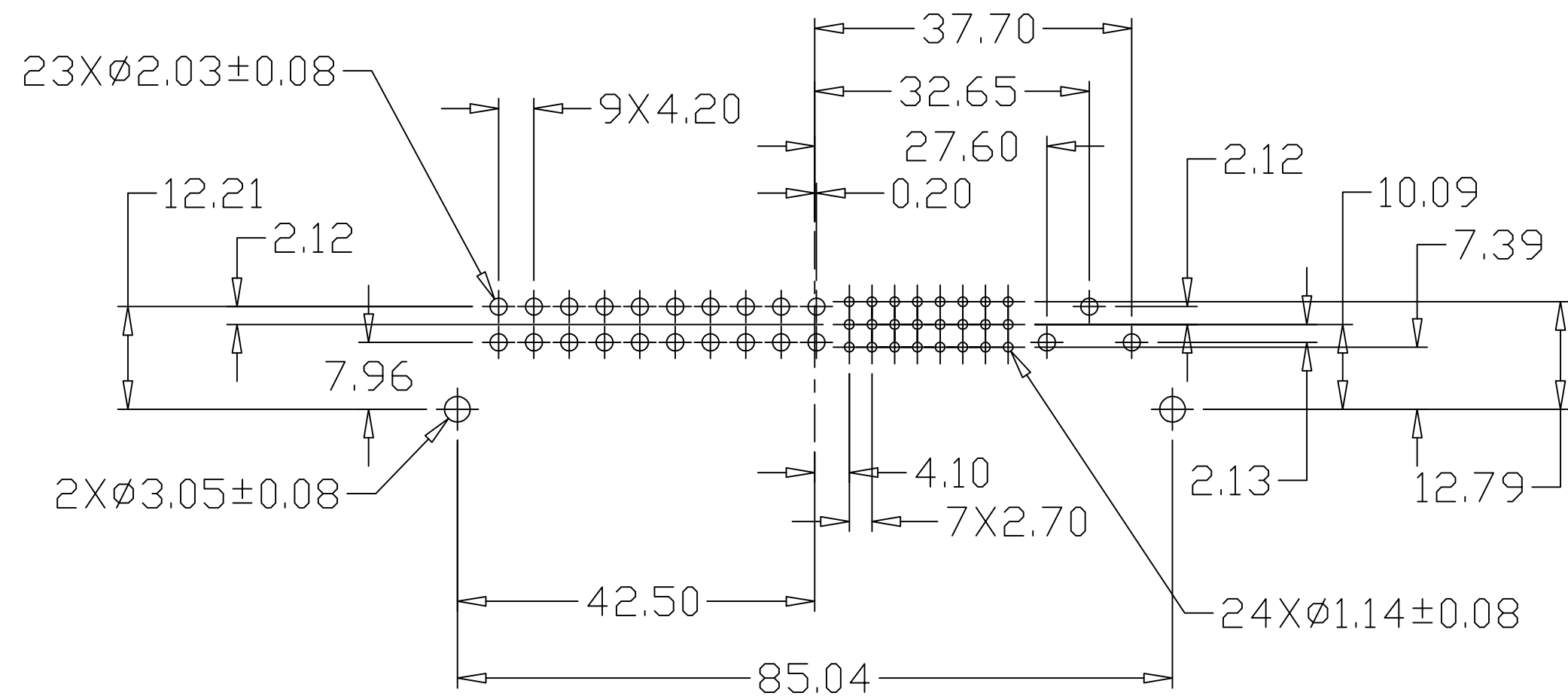
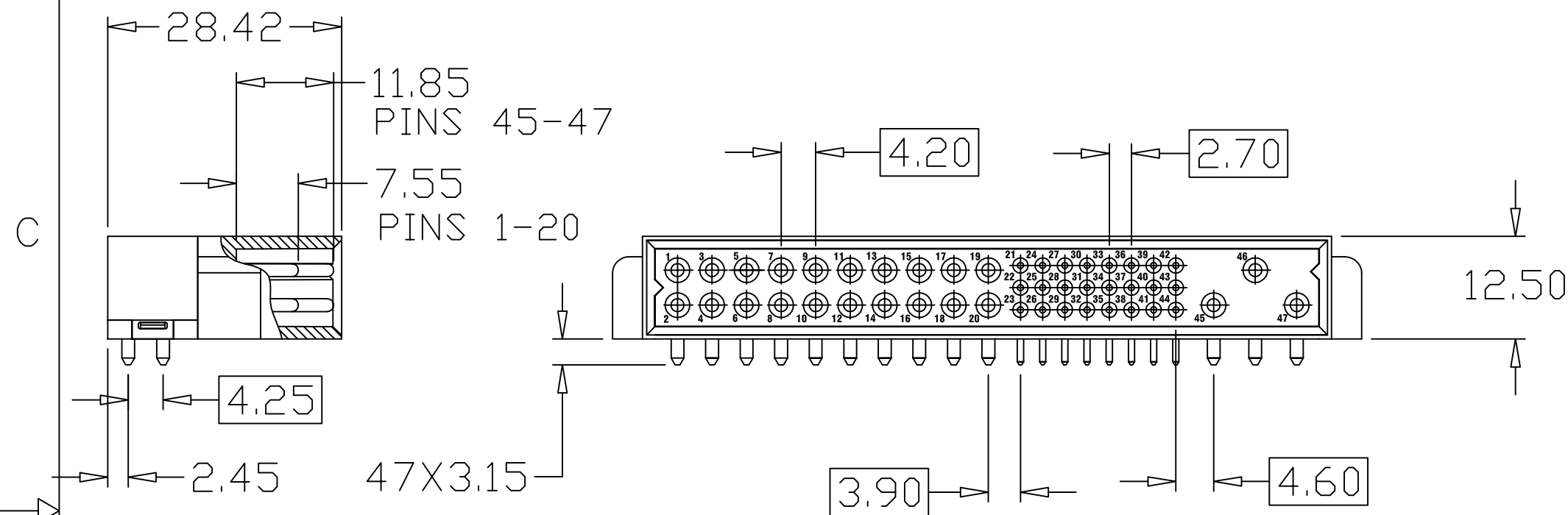
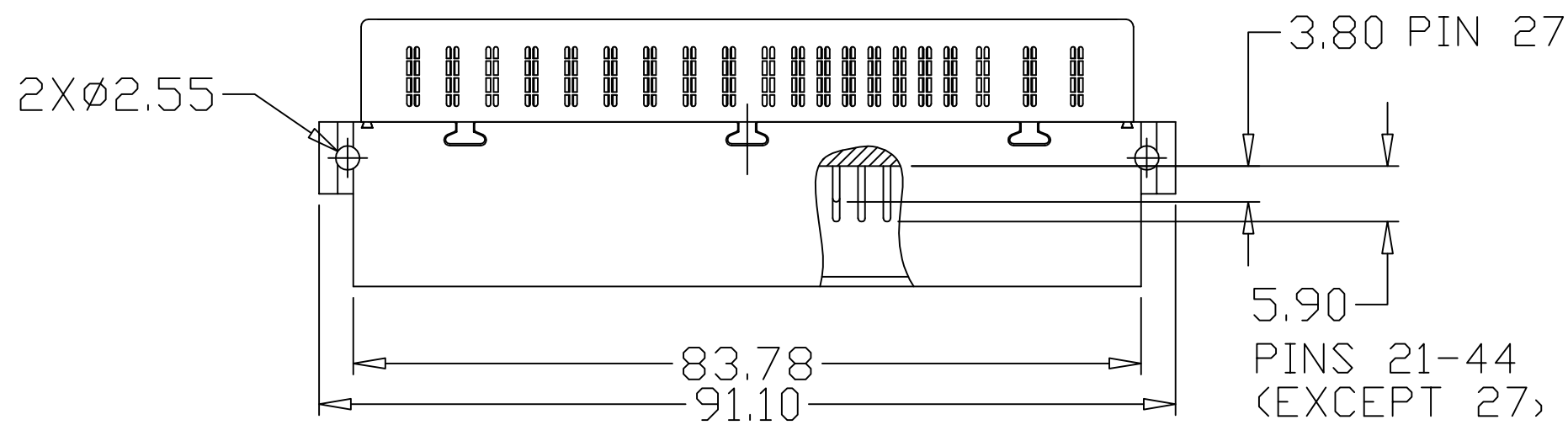
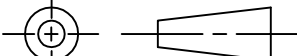


3M™ POWER RIGHT ANGLE MALE CONNECTOR  
FOR CPCI APPLICATIONS, 47 POSITION



RECOMMENDED PC BOARD REQUIREMENTS  
(COMPONENT SIDE OF BOARD SHOWN)

- NOTES:
- MATERIALS:
    - A: HOUSING: GLASS FILLED POYESTER (PBT), UL 94V-0  
COLOR BLACK
    - B: CONTACT: COPPER ALLOY, GOLD PLATING
  - PLATING: -ES  
FINISH: 0.76µm MIN Au  
UNDERCOAT: 1.27µm MIN Ni
  - G  
FINISH: 0.25µm MIN Au  
UNDERCOAT: 1.27µm MIN Ni
  - DA  
FINISH: 0.08µm MIN Au  
UNDERCOAT: 1.27µm MIN Ni
  - ELECTRICAL CHARACTERISTICS  
ELECTRICAL FEATURES:
    - INSULATION RESISTANCE ----- 10<sup>10</sup> OHMS
    - INITIAL CONTACT RESISTANCE:
      - POWER CONTACT ----- 0.7 MILLIOHMS MAX
      - SIGNAL CONTACT ----- 4.0 MILLIOHMS MAX
    - VOLTAGE PROOF:
      - POWER 1 THRU 20 ----- 1500 VRMS
      - POWER 45,46,47 ----- 3000 VRMS
      - POWER 21 THRU 44 ----- 1000 VRMS
    - CURRENT RATING:
      - DC OUTPUT POWER 1 THRU 20 ----- 16 AMPS
      - INPUT POWER 45,46,47 ----- 23 AMPS
      - SIGNAL CONTACTS ----- 2 AMPS
      - MINIMUM CREEPAGE DISTANCE [MM]
        - POWER 47 TO 45 ----- 3.2
        - POWER 46 TO 45 ----- 3.2
        - POWER 47 TO SIGNAL ----- 6.4
        - POWER 46 TO SIGNAL ----- 6.4
        - POWER 47 TO 46 ----- 2.5
        - POWER 45 TO SIGNAL ----- 2.0
  - SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "RoHS COMPLIANCE" SECTION OF: WWW.3MCONNECTOR.COM FOR COMPLIANCE INFORMATION (RIA E1 & C1 APPLY).
  - TEMPERATURE RATING: -55 TO +125C
  - IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPEC., THE PRODUCT SPEC. TAKES PRECEDENT.
  - PART No.: 3P01-2002-XX  
-XX IS PLATING TYPE
  - FOR MATING PRODUCT USE:  
3P02-200X-XX CPCI POWER BACKPLANE  
FEMALE CONNECTOR 47 POSITIONS
  - PC BOARD THICKNESS:  
MINIMUM: 1.60mm MAXIMUM: 3.00mm

| DESIGN REFERENCE                                                                      |  |       |  | NEXT ASSEMBLY              |  |  |  | REV                                                                                                                                                                                                                                                                       |    | ECO        |      | ISSUE DATE AND DESCRIPTION                               |  | DRFT       |      | CHKD |  |
|---------------------------------------------------------------------------------------|--|-------|--|----------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------|------|----------------------------------------------------------|--|------------|------|------|--|
| DISTRIBUTION CODES                                                                    |  |       |  |                            |  |  |  | DRFT                                                                                                                                                                                                                                                                      | ML |            | DATE | 12/16/10                                                 |  | MPG        | DATE |      |  |
|                                                                                       |  |       |  |                            |  |  |  | CHKD                                                                                                                                                                                                                                                                      | TS |            | DATE | 12/16/10                                                 |  | APPL       | DATE |      |  |
| DIVISION                                                                              |  |       |  | DIVISION CODE              |  |  |  | <div><div>3M</div><div>3M Center<br/>St. Paul,<br/>MN 55144</div></div> <div>© 3M COPYRIGHT.<br/>This document is the copyrighted property of the 3M Company and may not be reproduced without 3M written permission or used for other than 3M authorized purposes.</div> |    |            |      |                                                          |  |            |      |      |  |
| DO NOT SCALE DRAWING                                                                  |  | SCALE |  | TOLERANCES EXCEPT AS NOTED |  |  |  |                                                                                                                                                                                                                                                                           |    |            |      |                                                          |  |            |      |      |  |
|  |  |       |  | INCHES                     |  |  |  | TITLE<br><br>3P01-2002-XX CPCI POWER RIGHT<br>ANGLE MALE CONNECTOR 47 POSITIONS                                                                                                                                                                                           |    |            |      |                                                          |  |            |      |      |  |
|                                                                                       |  |       |  | .0 ± *                     |  |  |  |                                                                                                                                                                                                                                                                           |    |            |      |                                                          |  |            |      |      |  |
| .00 ± *                                                                               |  |       |  |                            |  |  |  |                                                                                                                                                                                                                                                                           |    |            |      |                                                          |  |            |      |      |  |
| .000 ± *                                                                              |  |       |  |                            |  |  |  |                                                                                                                                                                                                                                                                           |    |            |      |                                                          |  |            |      |      |  |
| .0000 ± *                                                                             |  |       |  |                            |  |  |  |                                                                                                                                                                                                                                                                           |    |            |      |                                                          |  |            |      |      |  |
| THIRD ANGLE PROJECTION                                                                |  |       |  | MILLIMETERS                |  |  |  | CAGE NUMBER <div>C</div> SIZE<br>DRAWING NO. 78-5100-2374-6REV. C                                                                                                                                                                                                         |    |            |      |                                                          |  |            |      |      |  |
| INTERPRET PER ASME Y14.5 - 1994                                                       |  |       |  | 0 ± *                      |  |  |  |                                                                                                                                                                                                                                                                           |    |            |      |                                                          |  |            |      |      |  |
| MAX SURFACE ROUGHNESS                                                                 |  |       |  | .0 ± 0.30                  |  |  |  |                                                                                                                                                                                                                                                                           |    |            |      |                                                          |  |            |      |      |  |
| <input type="checkbox"/> ALL SURFACES                                                 |  |       |  | .00 ± 0.20                 |  |  |  |                                                                                                                                                                                                                                                                           |    |            |      |                                                          |  |            |      |      |  |
| <input checked="" type="checkbox"/> MARKED ONLY                                       |  |       |  | .000 ± 0.10                |  |  |  | MODEL                                                                                                                                                                                                                                                                     |    |            |      |                                                          |  |            |      |      |  |
| ANGLES ± 1°                                                                           |  |       |  |                            |  |  |  |                                                                                                                                                                                                                                                                           |    |            |      |                                                          |  |            |      |      |  |
|                                                                                       |  |       |  |                            |  |  |  |                                                                                                                                                                                                                                                                           |    | DET. LISTS |      | <input type="checkbox"/> YES <input type="checkbox"/> NO |  | SHT 1 OF 1 |      |      |  |