

[illegible]

1. MATERIAL:  
CONTACT MATERIAL: PHOSPHOR BRONZE  
INSULATOR MATERIAL: POLYESTER NYLON-6T  
UL 94V-0

0.08[3] MIN Au FEMALE CONTACTS  
0.08[3] MIN Au MALE CONTACTS  
1.27[50] MIN Ni UNDERCOAT

0.38[15] MIN Au FEMALE CONTACTS  
0.08[3] MIN Au MALE CONTACTS  
1.27[50] MIN Ni UNDERCOAT

0.38[15] MIN Au FEMALE CONTACTS  
2.54[100] MIN Sn NON-STACK-THRU TAILS  
1.27[50] MIN Ni UNDERCOAT

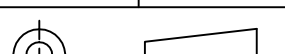
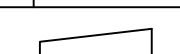
INSULATOR RESISTANCE: 5000 MEGA OHMS MIN  
CONTACT RESISTANCE: 20 MILLIOHMS MAX  
DIELECTRIC WITHSTAND: 500 VAC  
OPERATING TEMPERATURE: -40°C TO +105°C  
MAX PROCESSING TEMPERATURE; 230°C FOR 60  
260°C FOR 10 S

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

7. PART NO:

| TYPE                     | PART NO.     | DIM "A" | MIN STANDOFF | MAX STANDOFF |
|--------------------------|--------------|---------|--------------|--------------|
| STACK-THRU PRESS-FIT     | 5P03-2021-XX | 12.40   | 14.5         | 18.4         |
| NON-STACK-THRU SOLDER    | 5P03-2012-XX | 2.80    | 9.5          |              |
| NON-STACK-THRU PRESS-FIT | 5P03-2011-XX | 2.80    | 9.5          |              |

-XX IS PLATING TYPE

|                                                                                          |  |                                                                                       |  |                                                                                          |  |                                                                                  |  |                                                                                                                                                                  |  |                                 |  |                                                                                                                                                                                                  |  |      |  |                                                                                          |  |  |  |                                                                                       |  |
|------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|--|------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------|--|
| DESIGN REFERENCE                                                                         |  |                                                                                       |  | NEXT ASSEMBLY                                                                            |  |                                                                                  |  | B   3766                                                                                                                                                         |  | REMOVE 5P03-2002--XX FROM TABLE |  |                                                                                                                                                                                                  |  | MWL  |  | TS                                                                                       |  |  |  |                                                                                       |  |
| DISTRIBUTION CODES                                                                       |  |                                                                                       |  | ECO                                                                                      |  |                                                                                  |  | REV                                                                                                                                                              |  | ISSUE DATE AND DESCRIPTION      |  |                                                                                                                                                                                                  |  | DRFT |  | CHKD                                                                                     |  |  |  |                                                                                       |  |
|                                                                                          |  |                                                                                       |  | ECO                                                                                      |  |                                                                                  |  | DRFT                                                                                                                                                             |  | MWL                             |  |                                                                                                                                                                                                  |  | DATE |  | DATE                                                                                     |  |  |  |                                                                                       |  |
|                                                                                          |  |                                                                                       |  |                                                                                          |  |                                                                                  |  | CHKD                                                                                                                                                             |  | TS                              |  |                                                                                                                                                                                                  |  | DATE |  | APPVL                                                                                    |  |  |  |                                                                                       |  |
| DIVISION                                                                                 |  |                                                                                       |  | DIVISION CODE                                                                            |  |                                                                                  |  |  <div> <div>3M Center</div> <div>St. Paul,</div> <div>MN 55144</div> </div> |  |                                 |  | <p>© 3M COPYRIGHT.</p> <p>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.</p> |  |      |  |                                                                                          |  |  |  |                                                                                       |  |
| DO NOT SCALE DRAWING                                                                     |  | SCALE                                                                                 |  | TOLERANCES EXCEPT AS NOTED                                                               |  | INCHES                                                                           |  | <p>TITLE</p> <p>5P03-20XX-XX PC104 PLUS COMPLIANT, 120-PIN, CONNECTOR</p>                                                                                        |  |                                 |  |                                                                                                                                                                                                  |  |      |  |                                                                                          |  |  |  |                                                                                       |  |
|     |  |  |  | $\begin{matrix} .0 & \pm \\ .00 & \pm \\ .000 & \pm \\ .0000 & \pm \end{matrix}$         |  | $\begin{matrix} .0 & \pm \\ .00 & \pm \\ .000 & \pm \\ .0000 & \pm \end{matrix}$ |  |                                                                                                                                                                  |  |                                 |  |                                                                                                                                                                                                  |  |      |  |                                                                                          |  |  |  |                                                                                       |  |
| THIRD ANGLE PROJECTION                                                                   |  |                                                                                       |  |                                                                                          |  |                                                                                  |  |                                                                                                                                                                  |  |                                 |  |                                                                                                                                                                                                  |  |      |  |                                                                                          |  |  |  |                                                                                       |  |
| INTERPRET PER ASME Y14.5 - 1994                                                          |  |                                                                                       |  | MILLIMETERS                                                                              |  |                                                                                  |  | CAGE NUMBER                                                                                                                                                      |  |                                 |  | SIZE                                                                                                                                                                                             |  |      |  | DRAWING NO.                                                                              |  |  |  | REV.                                                                                  |  |
| MAX SURFACE ROUGHNESS                                                                    |  |                                                                                       |  | $\begin{matrix} .0 & \pm \\ .0 & \pm .3 \\ .0 & \pm .20 \\ .000 & \pm \end{matrix}$      |  |                                                                                  |  |                                                                             |  |                                 |  |                                                                                                             |  |      |  |     |  |  |  |  |  |
| <input type="checkbox"/> ALL SURFACES<br><input checked="" type="checkbox"/> MARKED ONLY |  |                                                                                       |  | <input type="checkbox"/> ALL SURFACES<br><input checked="" type="checkbox"/> MARKED ONLY |  |                                                                                  |  | <input type="checkbox"/> ALL SURFACES<br><input checked="" type="checkbox"/> MARKED ONLY                                                                         |  |                                 |  | <input type="checkbox"/> ALL SURFACES<br><input checked="" type="checkbox"/> MARKED ONLY                                                                                                         |  |      |  | <input type="checkbox"/> ALL SURFACES<br><input checked="" type="checkbox"/> MARKED ONLY |  |  |  |                                                                                       |  |
| ANGLES                                                                                   |  |                                                                                       |  | $\begin{matrix} .0 & \pm \\ .0 & \pm .3 \\ .0 & \pm .20 \\ .000 & \pm \end{matrix}$      |  |                                                                                  |  | MODEL                                                                                                                                                            |  |                                 |  | DET. YES NO SHT 1 OF 2                                                                                                                                                                           |  |      |  |                                                                                          |  |  |  |                                                                                       |  |

3M™ CONNECTOR FOR PC104 PLUS EMBEDDED SYSTEM  
APPLICATIONS, COMPLIANT

## PC104 PLUS CONNECTOR ORDERING GUIDE

5P 0 X - 2 0 X X - XX

PRODUCT FAMILY:  
PC104 PLUS

No. CONTACTS:  
3=120

PLATING OPTIONS:  $\mu\text{M}[\mu"]$

DA = 0.08[3] MIN Au ALL OVER  
1.27[50] MIN Ni ALL OVER

MG = 0.38[15] MIN Au FEMALE CONTACTS  
0.08[3] MIN Au TAIL AREA  
1.27[50] MIN Ni ALL UNDER

SL = 0.38[15] MIN Au FEMALE CONTACTS  
2.54[100] MIN MATTE Sn TAILS  
1.27[50] MIN Ni ALL UNDER  
(NON-STACK-THRU ONLY)

BODY  
HEIGHT:  
1=9.4  
2=9.4

TAIL  
LENGTH:  
2.8  
12.40

STANDOFF HEIGHT:  
[MIN-MAX]mm  
[9.5-]  
[14.5-18.4]

TAIL TYPE:  
1=PRESS-FIT  
2=SOLDER

NOTE: STANDOFF HEIGHT, 15mm = COMPLIANT,  
OTHERS = BUS COMPATIBLE  
TAIL LENGHT, > 4.3mm = STACK-THRU  
< 4.2mm = NON-STACK-THEU

|                        |  |                                 |  |                            |       |                                                                                                                                                                                      |          |      |      |
|------------------------|--|---------------------------------|--|----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|
| DESIGN REFERENCE       |  | NEXT ASSEMBLY                   |  | B                          | 33766 | REMOVE 5P03-20022-XX FROM TABLE                                                                                                                                                      |          | MWL  | TS   |
| DISTRIBUTION CODES     |  |                                 |  | REV                        | ECO   | ISSUE DATE AND DESCRIPTION                                                                                                                                                           |          | DRFT | CHKD |
|                        |  |                                 |  | DRFT                       | MWL   | DATE                                                                                                                                                                                 | 02/02/11 | MFG  | DATE |
|                        |  |                                 |  | CHKD                       | TS    | DATE                                                                                                                                                                                 | 02/02/11 | APPL | DATE |
| DIVISION               |  | DIVISION CODE                   |  | 3M                         |       | 3M Center<br>St. Paul, MN 55144                                                                                                                                                      |          |      |      |
| DO NOT SCALE DRAWING   |  | SCALE                           |  | TOLERANCES EXCEPT AS NOTED |       | © 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. |          |      |      |
| THIRD ANGLE PROJECTION |  | INTERPRET PER ASME Y14.5 - 1994 |  | INCHES                     |       | TITLE                                                                                                                                                                                |          |      |      |
|                        |  |                                 |  | .0 ± .000                  |       | 5P03-20XX-XX PC104 PLUS COMPLIANT, 120-PIN, CONNECTOR                                                                                                                                |          |      |      |
| MAX SURFACE ROUGHNESS  |  |                                 |  | MILLIMETERS                |       | CAGE NUMBER                                                                                                                                                                          |          |      |      |
| □ ALL SURFACES         |  |                                 |  | 0 ± .000                   |       | SIZE                                                                                                                                                                                 |          |      |      |
| ✓ □ MARKED ONLY        |  |                                 |  | .00 ± .000                 |       | DRAWING NO.                                                                                                                                                                          |          |      |      |
|                        |  |                                 |  | ANGLES ±                   |       | 78-5100-2391-0                                                                                                                                                                       |          |      |      |
|                        |  |                                 |  |                            |       | REV.                                                                                                                                                                                 |          |      |      |
|                        |  |                                 |  |                            |       | B                                                                                                                                                                                    |          |      |      |
|                        |  |                                 |  |                            |       | MODEL                                                                                                                                                                                |          |      |      |
|                        |  |                                 |  |                            |       | DET. LISTS                                                                                                                                                                           |          |      |      |
|                        |  |                                 |  |                            |       | YES NO SHT 2 OF 2                                                                                                                                                                    |          |      |      |