

D

C

B

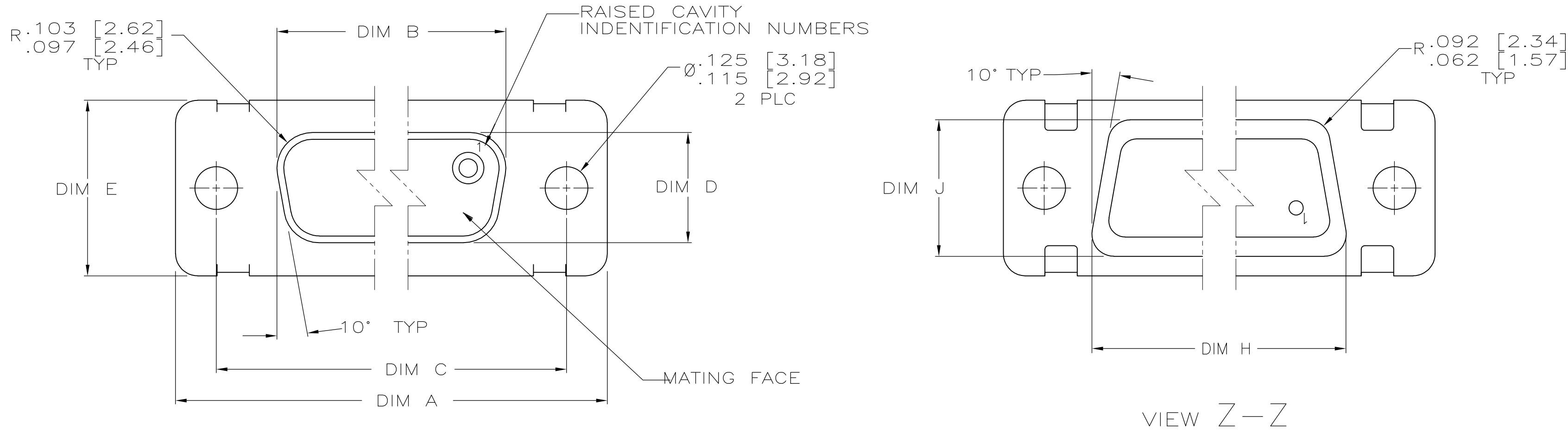
A

D

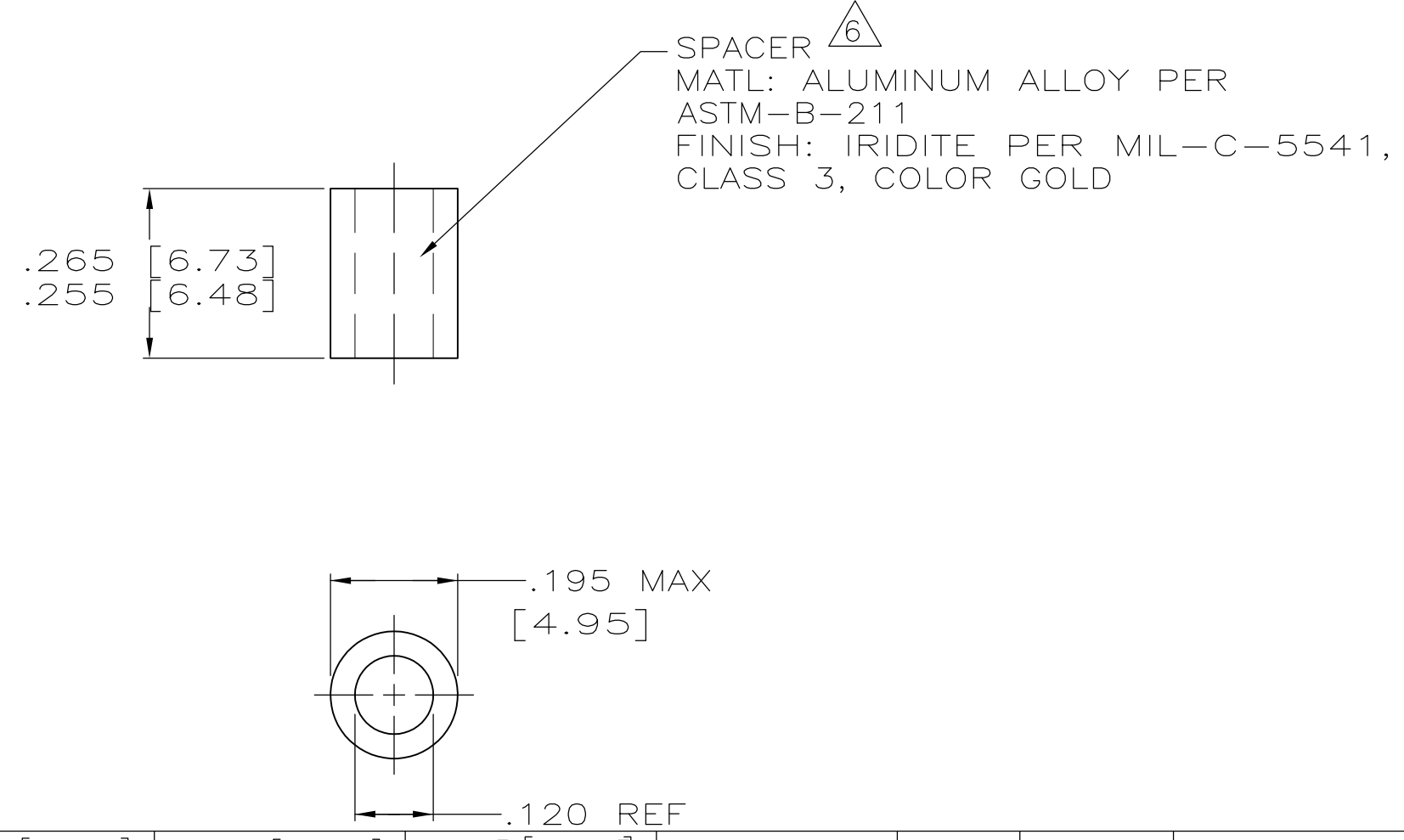
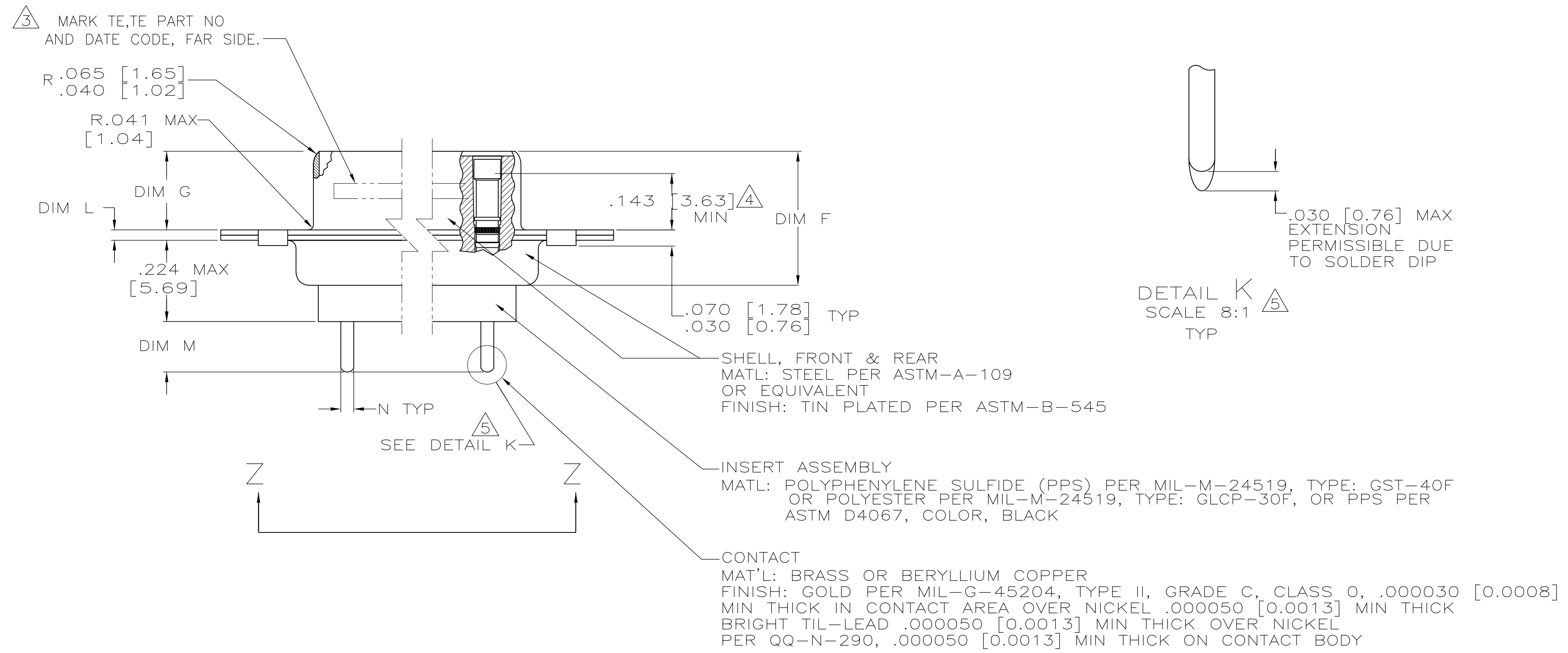
C

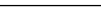
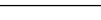
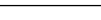
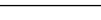
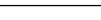
B

A



- SEE SHEET 2 FOR RECOMMENDED P.C. BOARD LAYOUT. TRUE POSITION TOLERANCE FOR P.C.BOARD LAYOUT IS .010 [0.25] AT MAX MATERIAL CONDITION. SUGGESTED BOARD THICKNESS IS .125 [3.18]
- THE CONNECTORS DESCRIBED IN THIS DOCUMENT WILL MATE WITH ANY PLUG CONNECTOR WITH THE SAME INSERT ARRANGEMENT.
- MARKED WITH .047 [1.19]-.062 [1.57] HIGH CHARACTERS. FAR SIDE REFERS TO THE WIDE SIDE OF THE KEYSTONE. NEAR SIDE REFERS TO THE NARROW SIDE OF THE KEYSTONE. IF THE FRONT SHELL IS TOO SMALL FOR "TE", TE PART NUMBER AND DATE CODE, THEN SPLIT AS FOLLOWS:  
A. TE PART NUMBER ON REAR SHELL, NEAR SIDE.  
B. "TE" AND DATE CODE ON FRONT SHELL, NEAR SIDE.
- POINT OF ELECTRICAL ENGAGEMENT - AS MEASURED WITH A .0390 [0.991]-.0393 [0.998] DIA SQUARE ENDED TEST PIN.
- SOLDER DIPPED PER MIL-STD-2000 COMPOSITION Sn63 CONFORMING TO QQ-S-571. COVERAGE SHALL BE COMPLETE TO A DISTANCE .020 [0.51] MAX FROM INSERT ASSEMBLY.
- SPACERS (QTY 2) ARE SUPPLIED WITH CONNECTORS (NOT ATTACHED TO THE CONNECTOR).
7. DIMENSIONS APPLY PRIOR TO SOLDER DIPPING.

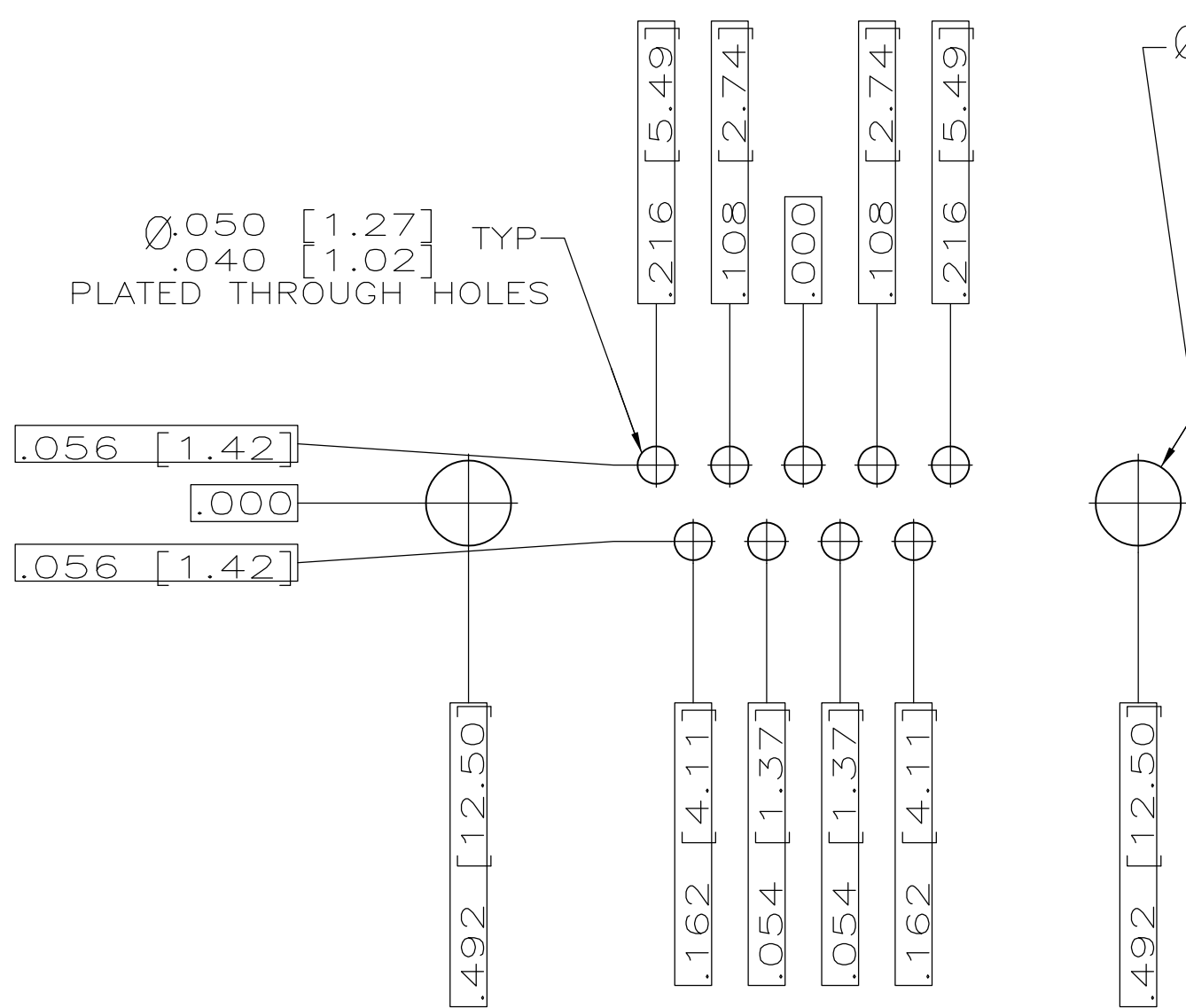


|              |                  |              |                  |              |                  |              |                    |                |                    |              |                  |              |                    |              |                    |              |                    |                |                    |                |                    |                |                    |                       |              |               |                       |             |                                                                                       |
|--------------|------------------|--------------|------------------|--------------|------------------|--------------|--------------------|----------------|--------------------|--------------|------------------|--------------|--------------------|--------------|--------------------|--------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|-----------------------|--------------|---------------|-----------------------|-------------|---------------------------------------------------------------------------------------|
| .033<br>.027 | [0.84]<br>[0.69] | .176<br>.136 | [4.47]<br>[3.45] | .040<br>.020 | [1.02]<br>[0.51] | .544<br>.524 | [13.82]<br>[13.31] | 2.188<br>2.168 | [55.58]<br>[55.07] | .248<br>.238 | [6.30]<br>[6.05] | .439<br>.419 | [11.15]<br>[10.64] | .620<br>.590 | [15.75]<br>[14.99] | .428<br>.418 | [10.87]<br>[10.62] | 2.411<br>2.401 | [61.24]<br>[60.99] | 2.069<br>2.059 | [52.55]<br>[52.30] | 2.650<br>2.620 | [67.31]<br>[66.55] | MS18277-1             | 50           | 5             | 1218293-5             | 1-1218293-0 |  |
| .033<br>.027 | [0.84]<br>[0.69] | .176<br>.136 | [4.47]<br>[3.45] | .040<br>.020 | [1.02]<br>[0.51] | .432<br>.412 | [10.97]<br>[10.46] | 2.282<br>2.262 | [57.96]<br>[57.45] | .248<br>.238 | [6.30]<br>[6.05] | .439<br>.419 | [11.15]<br>[10.64] | .509<br>.479 | [12.93]<br>[12.17] | .316<br>.306 | [8.03]<br>[7.77]   | 2.505<br>2.495 | [63.63]<br>[63.37] | 2.164<br>2.154 | [54.97]<br>[54.71] | 2.744<br>2.714 | [69.70]<br>[68.94] | MS18276-1             | 37           | 4             | 1218293-4             | 1218293-9   |  |
| .033<br>.027 | [0.84]<br>[0.69] | .176<br>.136 | [4.47]<br>[3.45] | .040<br>.020 | [1.02]<br>[0.51] | .432<br>.412 | [10.97]<br>[10.46] | 1.635<br>1.615 | [41.53]<br>[41.02] | .248<br>.238 | [6.30]<br>[6.05] | .439<br>.419 | [11.15]<br>[10.64] | .509<br>.479 | [12.93]<br>[12.17] | .316<br>.306 | [8.03]<br>[7.77]   | 1.857<br>1.847 | [47.17]<br>[46.91] | 1.516<br>1.506 | [38.51]<br>[38.25] | 2.103<br>2.073 | [53.42]<br>[52.65] | MS18275-1             | 25           | 3             | 1218293-3             | 1218293-8   |  |
| .033<br>.027 | [0.84]<br>[0.69] | .176<br>.136 | [4.47]<br>[3.45] | .040<br>.020 | [1.02]<br>[0.51] | .432<br>.412 | [10.97]<br>[10.46] | 1.093<br>1.073 | [27.76]<br>[27.25] | .248<br>.238 | [6.30]<br>[6.05] | .439<br>.419 | [11.15]<br>[10.64] | .509<br>.479 | [12.93]<br>[12.17] | .316<br>.306 | [8.03]<br>[7.77]   | 1.317<br>1.307 | [33.45]<br>[33.20] | .976<br>.966   | [24.79]<br>[24.54] | 1.556<br>1.526 | [39.52]<br>[38.76] | MS18274-1             | 15           | 2             | 1218293-2             | 1218293-7   |  |
| .033<br>.027 | [0.84]<br>[0.69] | .176<br>.136 | [4.47]<br>[3.45] | .040<br>.020 | [1.02]<br>[0.51] | .432<br>.412 | [10.97]<br>[10.46] | .769<br>.749   | [19.53]<br>[19.02] | .248<br>.238 | [6.30]<br>[6.05] | .439<br>.419 | [11.15]<br>[10.64] | .509<br>.479 | [12.93]<br>[12.17] | .316<br>.306 | [8.03]<br>[7.77]   | .989<br>.979   | [25.12]<br>[24.87] | .648<br>.638   | [16.46]<br>[16.21] | 1.228<br>1.198 | [31.19]<br>[30.43] | MS18273-1             | 9            | 1             | 1218293-1             | 1218293-6   |  |
| .033<br>.027 | [0.84]<br>[0.69] | .176<br>.136 | [4.47]<br>[3.45] | .040<br>.020 | [1.02]<br>[0.51] | .544<br>.524 | [13.82]<br>[13.31] | 2.188<br>2.168 | [55.58]<br>[55.07] | .248<br>.238 | [6.30]<br>[6.05] | .439<br>.419 | [11.15]<br>[10.64] | .620<br>.590 | [15.75]<br>[14.99] | .428<br>.418 | [10.87]<br>[10.62] | 2.411<br>2.401 | [61.24]<br>[60.99] | 2.069<br>2.059 | [52.55]<br>[52.30] | 2.650<br>2.620 | [67.31]<br>[66.55] | MS18277-1             | 50           | 5             | 1218293-5             | 1218293-5   |                                                                                       |
| .033<br>.027 | [0.84]<br>[0.69] | .176<br>.136 | [4.47]<br>[3.45] | .040<br>.020 | [1.02]<br>[0.51] | .432<br>.412 | [10.97]<br>[10.46] | 2.282<br>2.262 | [57.96]<br>[57.45] | .248<br>.238 | [6.30]<br>[6.05] | .439<br>.419 | [11.15]<br>[10.64] | .509<br>.479 | [12.93]<br>[12.17] | .316<br>.306 | [8.03]<br>[7.77]   | 2.505<br>2.495 | [63.63]<br>[63.37] | 2.164<br>2.154 | [54.97]<br>[54.71] | 2.744<br>2.714 | [69.70]<br>[68.94] | MS18276-1             | 37           | 4             | 1218293-4             | 1218293-4   |                                                                                       |
| .033<br>.027 | [0.84]<br>[0.69] | .176<br>.136 | [4.47]<br>[3.45] | .040<br>.020 | [1.02]<br>[0.51] | .432<br>.412 | [10.97]<br>[10.46] | 1.635<br>1.615 | [41.53]<br>[41.02] | .248<br>.238 | [6.30]<br>[6.05] | .439<br>.419 | [11.15]<br>[10.64] | .509<br>.479 | [12.93]<br>[12.17] | .316<br>.306 | [8.03]<br>[7.77]   | 1.857<br>1.847 | [47.17]<br>[46.91] | 1.516<br>1.506 | [38.51]<br>[38.25] | 2.103<br>2.073 | [53.42]<br>[52.65] | MS18275-1             | 25           | 3             | 1218293-3             | 1218293-3   |                                                                                       |
| .033<br>.027 | [0.84]<br>[0.69] | .176<br>.136 | [4.47]<br>[3.45] | .040<br>.020 | [1.02]<br>[0.51] | .432<br>.412 | [10.97]<br>[10.46] | 1.093<br>1.073 | [27.76]<br>[27.25] | .248<br>.238 | [6.30]<br>[6.05] | .439<br>.419 | [11.15]<br>[10.64] | .509<br>.479 | [12.93]<br>[12.17] | .316<br>.306 | [8.03]<br>[7.77]   | 1.317<br>1.307 | [33.45]<br>[33.20] | .976<br>.966   | [24.79]<br>[24.54] | 1.556<br>1.526 | [39.52]<br>[38.76] | MS18274-1             | 15           | 2             | 1218293-2             | 1218293-2   |                                                                                       |
| .033<br>.027 | [0.84]<br>[0.69] | .176<br>.136 | [4.47]<br>[3.45] | .040<br>.020 | [1.02]<br>[0.51] | .432<br>.412 | [10.97]<br>[10.46] | .769<br>.749   | [19.53]<br>[19.02] | .248<br>.238 | [6.30]<br>[6.05] | .439<br>.419 | [11.15]<br>[10.64] | .509<br>.479 | [12.93]<br>[12.17] | .316<br>.306 | [8.03]<br>[7.77]   | .989<br>.979   | [25.12]<br>[24.87] | .648<br>.638   | [16.46]<br>[16.21] | 1.228<br>1.198 | [31.19]<br>[30.43] | MS18273-1             | 9            | 1             | 1218293-1             | 1218293-1   |                                                                                       |
| N            | M                |              |                  | L            |                  | J            |                    | H              |                    | G            |                  | F            |                    | E            |                    | D            |                    | C              |                    | B              |                    | A              |                    | INSERT<br>ARRANGEMENT | NO OF<br>POS | SHELL<br>SIZE | TE PN<br>ON CONNECTOR | PART NUMBER |                                                                                       |

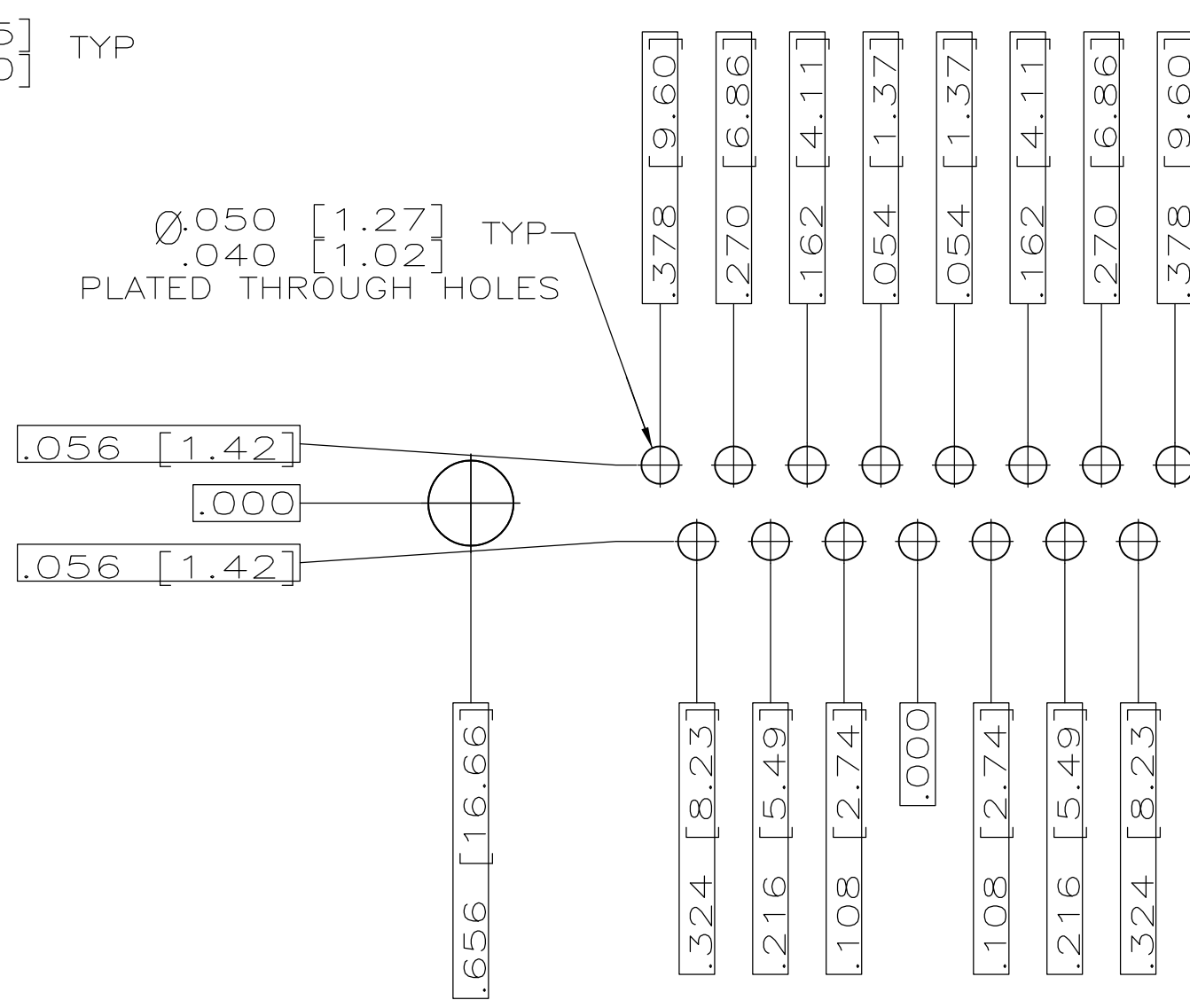
|                                        |  |                        |                                                           |                              |
|----------------------------------------|--|------------------------|-----------------------------------------------------------|------------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN C.C.THOMAS 140CT99 | Tyco Electronics Corporation<br>Harrisburg, PA 17105-3608 |                              |
| DIMENSIONS: INCHES                     |  | CHK D.HOFFMAN 180CT99  | NAME                                                      |                              |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |  | APVD D.HOFFMAN 180CT99 | PRODUCT SPEC                                              |                              |
| 0 PLC ± .005                           |  | APPLICATION SPEC       |                                                           |                              |
| 1 PLC ± .005                           |  | SIZE                   |                                                           |                              |
| 2 PLC ± .005                           |  | CAGE CODE              |                                                           |                              |
| 3 PLC ± .005                           |  | DRAWING NO             |                                                           |                              |
| 4 PLC ± .005                           |  | RESTRICTED TO          |                                                           |                              |
| MATERIAL SEE CALLOUTS                  |  | FINISH SEE CALLOUTS    |                                                           | WEIGHT                       |
|                                        |  | CUSTOMER DRAWING       |                                                           | SCALE 1:1 SHEET 1 OF 2 REV C |

| LOC |   | DIST |     | REVISIONS   |      |     |      |  |
|-----|---|------|-----|-------------|------|-----|------|--|
| —   | — | P    | LTR | DESCRIPTION | DATE | DWN | APVD |  |
|     |   |      | —   | SEE SHEET 1 | —    | —   | —    |  |

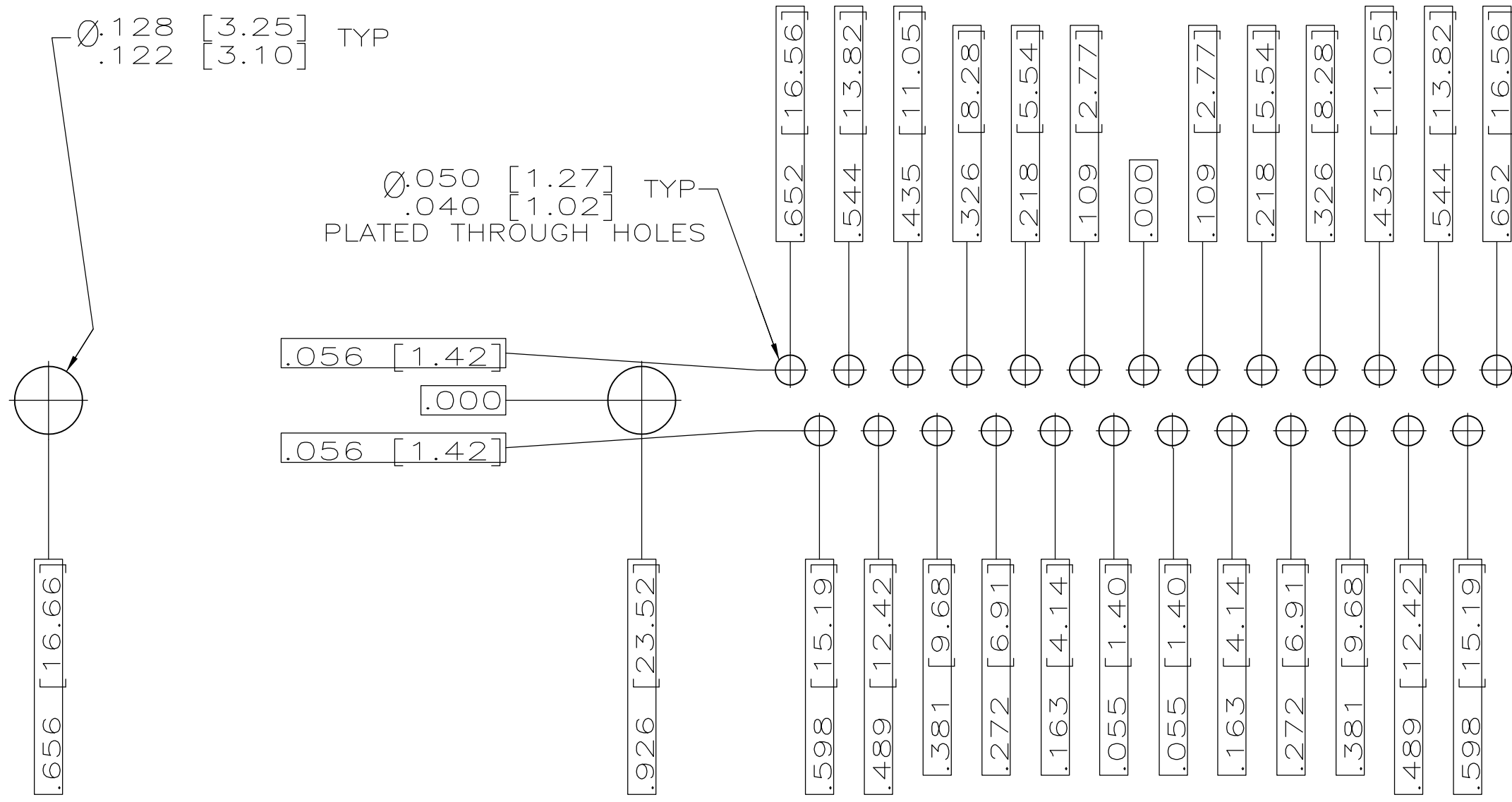
D



RECOMMENDED P.C. BOARD LAYOUT  
SHELL SIZE 1 (9 POSITION) ⚠

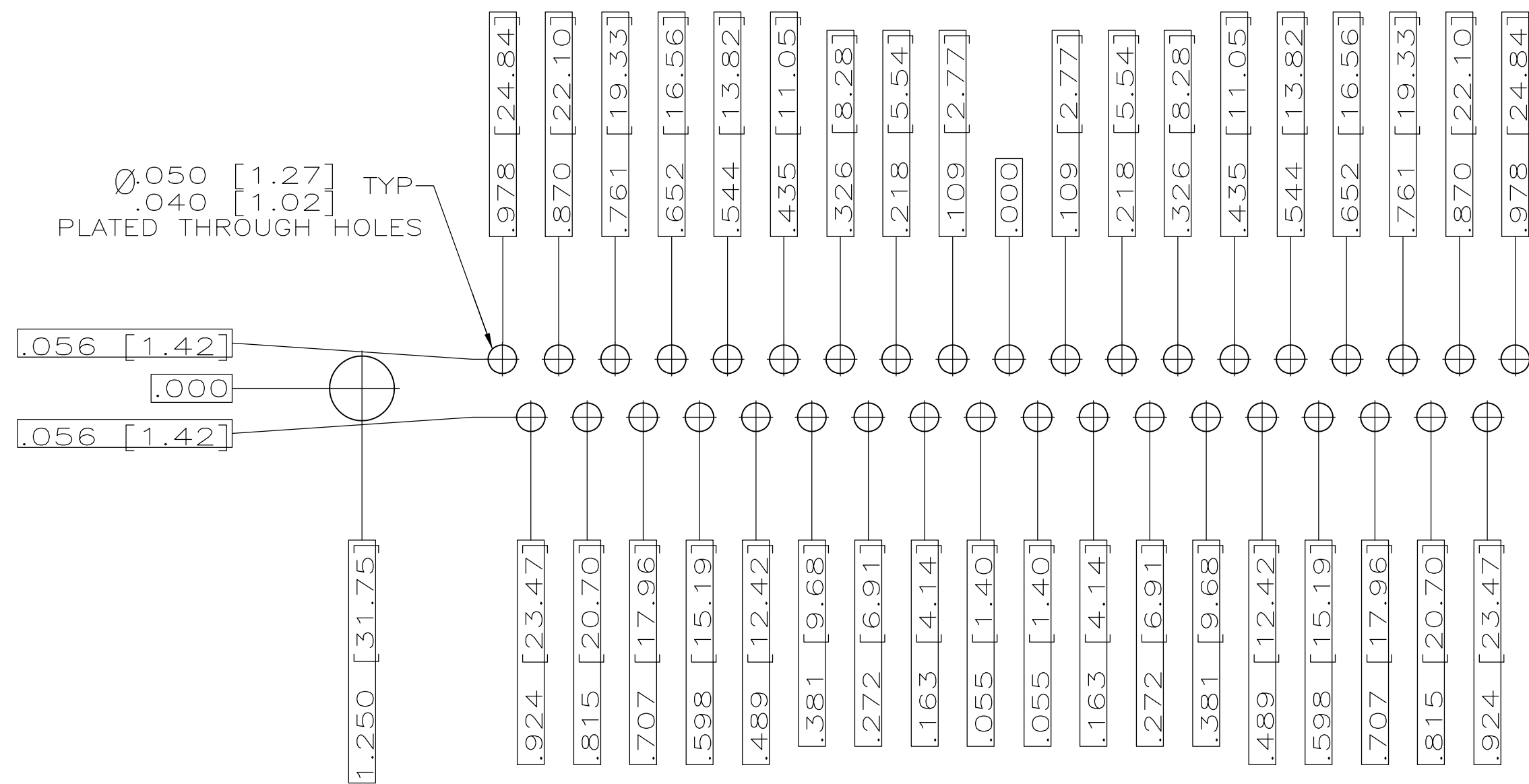


RECOMMENDED P.C. BOARD LAYOUT  
SHELL SIZE 2 (15 POSITION) ⚠

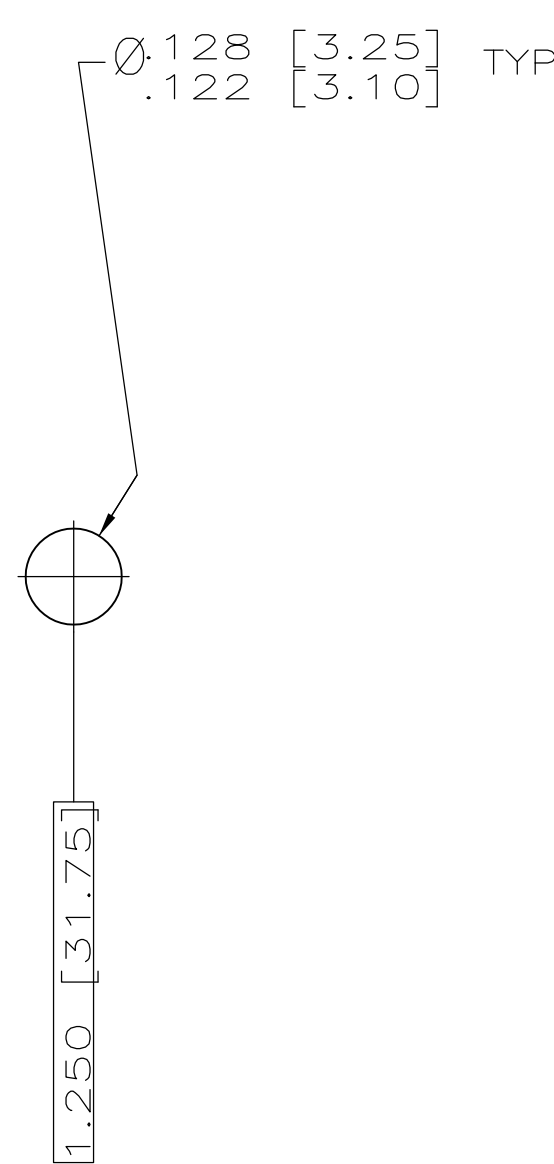


RECOMMENDED P.C. BOARD LAYOUT  
SHELL SIZE 3 (25 POSITION) ⚠

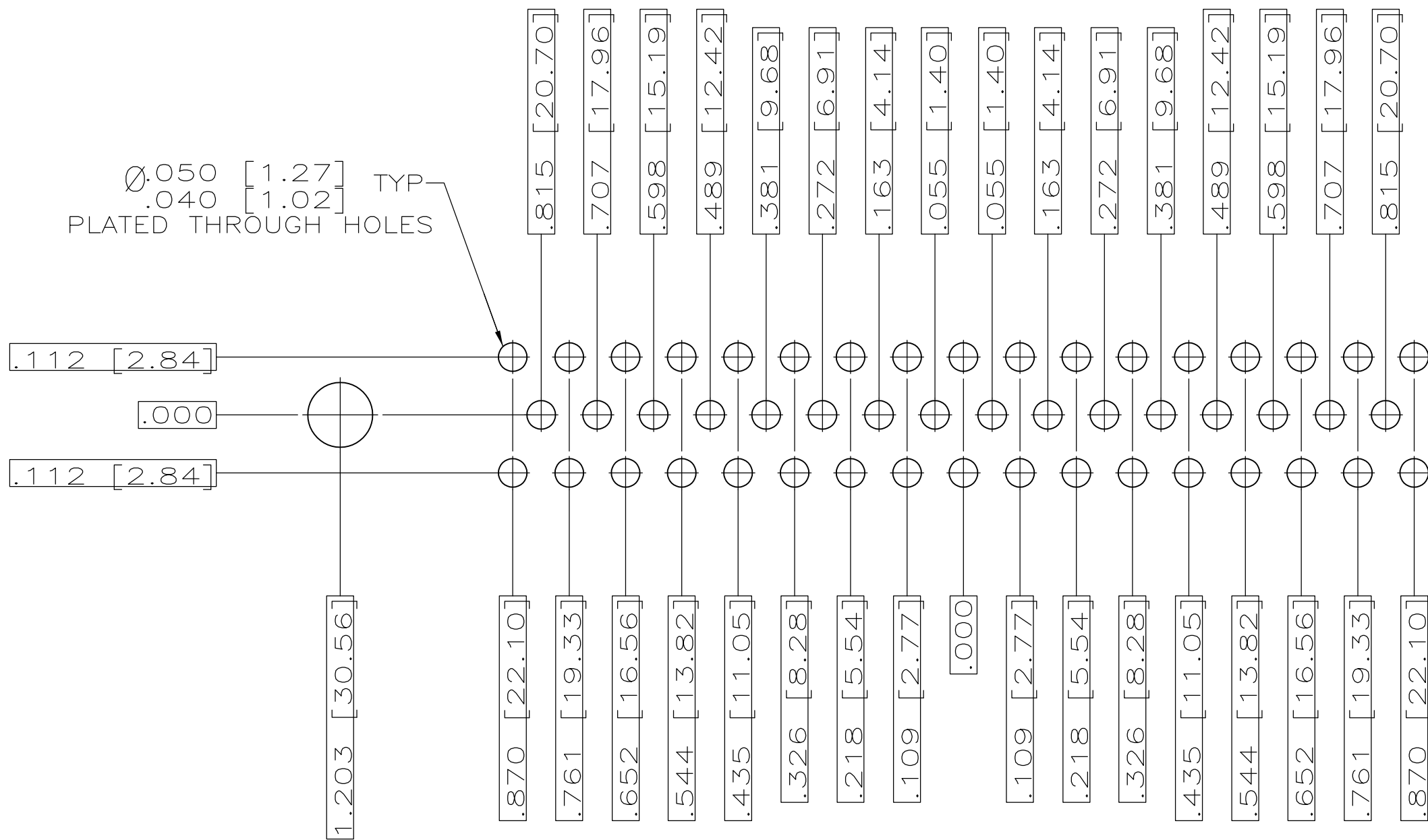
B



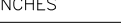
RECOMMENDED P.C. BOARD LAYOUT  
SHELL SIZE 4 (37 POSITION) ⚠



RECOMMENDED P.C. BOARD LAYOUT  
SHELL SIZE 5 (50 POSITION) ⚠



A

|                                                                                       |                                                                                                                             |                               |                                                                                                                                                 |           |            |               |    |   |     |   |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------------|----|---|-----|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |                                                                                                                             | DWN<br>C.C. THOMAS<br>14OCT99 |  Tyco Electronics Corporation<br>Harrisburg, PA 17105-3608 |           |            |               |    |   |     |   |
| DIMENSIONS:<br>INCHES                                                                 |                                                                                                                             | CHK<br>D. HOFFMAN<br>18OCT99  |                                                                                                                                                 |           |            |               |    |   |     |   |
|  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ± .1<br>1 PLC ± .1<br>2 PLC ± .1<br>3 PLC ± .1<br>4 PLC ± .1<br>ANGLES ± .1 | APVD<br>D. HOFFMAN<br>18OCT99 | NAME                                                                                                                                            |           |            |               |    |   |     |   |
|                                                                                       |                                                                                                                             | PRODUCT SPEC                  | AMPLIMITE RECEPTACLE ASSY, LOW PROFILE                                                                                                          |           |            |               |    |   |     |   |
|                                                                                       |                                                                                                                             | APPLICATION SPEC              | SIZE 20 POSTED CONTACTS                                                                                                                         |           |            |               |    |   |     |   |
|                                                                                       |                                                                                                                             | SERIES 109, SIZE 1 THRU 5     |                                                                                                                                                 |           |            |               |    |   |     |   |
|                                                                                       |                                                                                                                             | SIZE                          |                                                                                                                                                 | CAGE CODE | DRAWING NO | RESTRICTED TO |    |   |     |   |
|                                                                                       |                                                                                                                             | A1                            |                                                                                                                                                 | 00779     | C1218293   |               |    |   |     |   |
| MATERIAL<br>SEE CALLOUTS                                                              | FINISH<br>SEE CALLOUTS                                                                                                      | WEIGHT<br>—                   | —                                                                                                                                               |           |            |               |    |   |     |   |
| CUSTOMER DRAWING                                                                      |                                                                                                                             |                               | SCALE                                                                                                                                           | 1:1       | SHEET      | 2             | OF | 2 | REV | C |