



- IF THE FRONT SHELL IS TOO SMALL FOR "AMP", PART NUMBER AND DATE CODE, THEN SPLIT AS FOLLOWS:

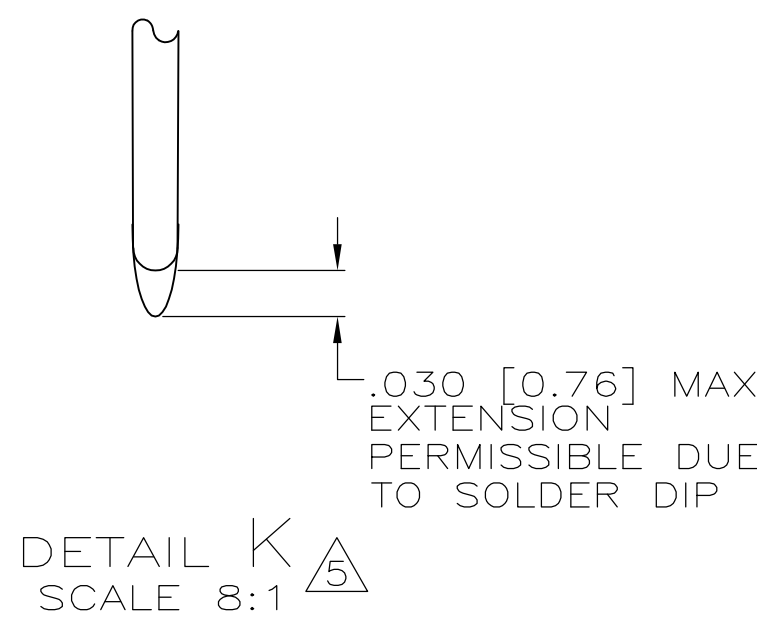
- ```
.159 [4.04] MIN, SHELL SIZES 1 AND 2.
.150 [3.81] MIN, SHELL SIZES 3, 4, AND 5.
```

6. THE SOLDER DIP PROCESS IS PERFORMED SUBSEQUENT TO THE COMPLETION OF PRODUCTION OF THE MILITARY QUALIFIED CONNECTOR. DIMENSIONS APPLY PRIOR TO SOLDER DIPPING.

- △ SPACERS (QTY 2) ARE SUPPLIED WITH CONNECTORS  
(NOT ATTACHED TO THE CONNECTOR).

8. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982.

9. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100.



SHELL, FRONT  
MATL: STEEL PER ASTM A 109  
OR EQUIVALENT  
FINISH: CADMIUM PER QQ-P-416,  
TYPE II, CLASS 2 OVER COPPER PER  
MIL-C-14550, CLASS 4

SHELL, REAR  
MATL: STEEL PER ASTM A 109  
OR EQUIVALENT  
FINISH: CADMIUM PER QQ-P-416,  
TYPE II, CLASS 2 OVER COPPER PER  
MIL-C-14550, CLASS 4

INSERT ASSEMBLY  
MATL: POLYPHENYLENE SULFIDE (PPS) PER MIL-M-24519, TYPE: GST-40F  
OR POLYESTER PER MIL-M-24519, TYPE: GLCP-30F OR PPS PER  
ASTM D4067, COLOR, BLACK

CONTACT  
MATL: BRASS ALLOY PER ASTM B 16, OR BERYLLIUM  
COPPER 173, 1/2 HARD PER ASTM-B-197.  
FINISH: GOLD PER MIL-G-45204, TYPE II,  
GRADE C, CLASS 1 OVER NICKEL PER  
QQ-N-290, .000050 MIN THICK

△<sub>3</sub> MARK AMP, PART NO  
AND DATE CODE, FAR SIDE:

△<sub>3</sub> MARK MILITARY PART NO  
FAR SIDE \_\_\_\_\_

SEE DETAIL 'K' TYPE

-SPACER   
MATL: ALUMINUM ALLOY PER  
ASTM B 211  
FINISH: IRIDITE PER MIL-C-5541,  
CLASS 3, COLOR GOLD

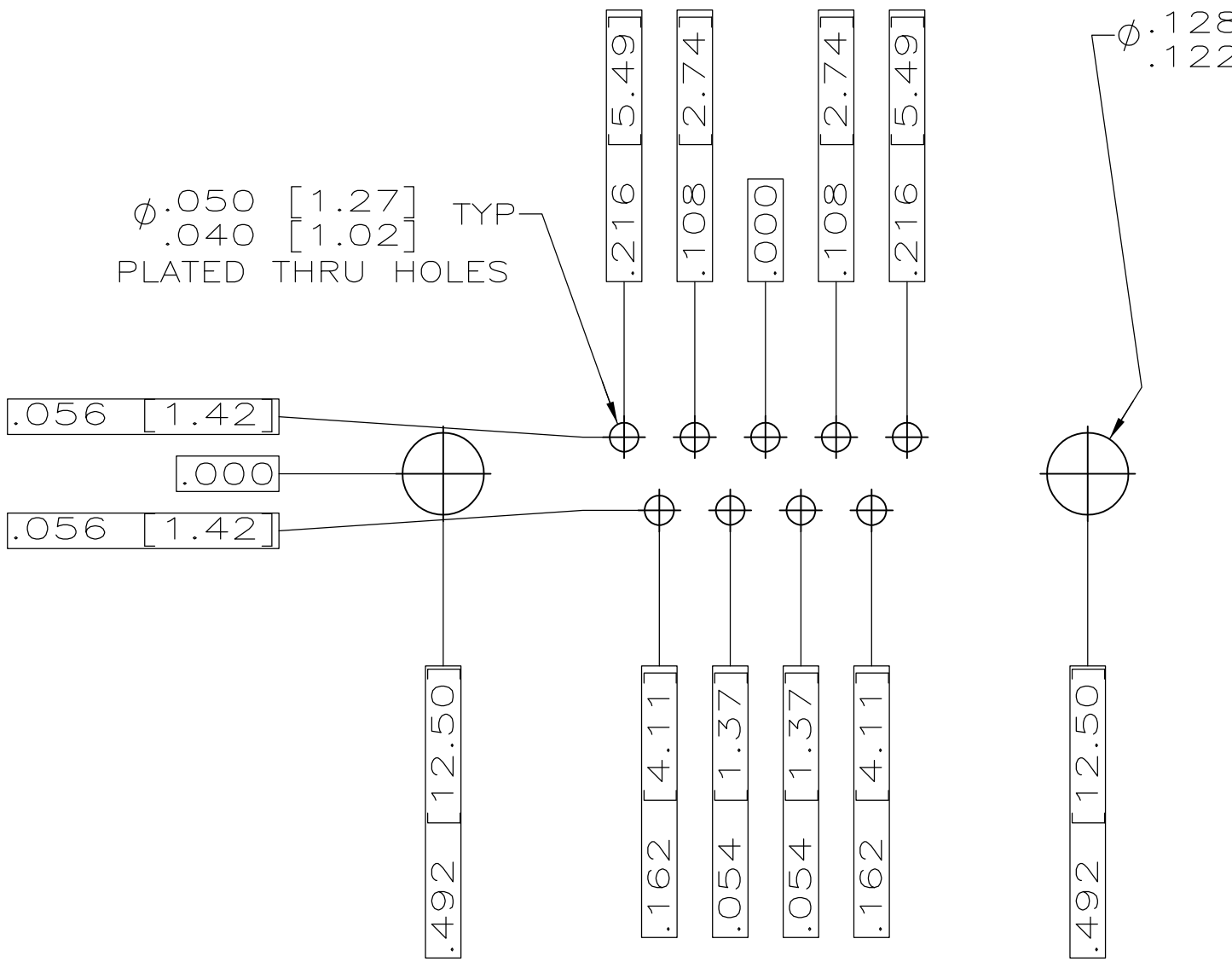
|                                 |                                  |                               |                                 |                                 |                                 |                                 |                                  |                                  |                                  |                                  |                                  |                      |              |                        |                              |                        |                          |
|---------------------------------|----------------------------------|-------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------|--------------|------------------------|------------------------------|------------------------|--------------------------|
| .033<br>.027<br>[ .84<br>0.69 ] | .176<br>.136<br>[ 4.47<br>3.45 ] | .049<br>.029 [ 1.24<br>0.74 ] | .544 [ 13.82<br>.524 [ 13.31 ]  | .2188- 55.58<br>.2168 [ 55.07 ] | .236 [ 5.99<br>.224 [ 5.69 ]    | .436 [ 11.07<br>.416 [ 10.57 ]  | .620 [ 15.75<br>.590 [ 14.99 ]   | .446 [ 11.33<br>.436 [ 11.07 ]   | .2411 [ 61.24<br>.2401 [ 60.99 ] | .2084 [ 52.93<br>.2074 [ 52.68 ] | .2650 [ 67.31<br>.2620 [ 66.55 ] | MS18277-1            | 50           | 5                      | M24308/24-5F                 | 1218124-5              | 1-1218124-0 <sup>5</sup> |
|                                 |                                  |                               | .282 [ 57.96<br>.2262 [ 57.45 ] | .2505- 63.63<br>.2495 [ 63.37 ] |                                 |                                 | .2187- 55.55<br>.2177 [ 55.30 ]  | .2744- 69.70<br>.2714 [ 68.94 ]  | MS18276-1                        | 37                               | 4                                | M24308/24-4F         | 1218124-4    | 1218124-9 <sup>5</sup> |                              |                        |                          |
|                                 |                                  |                               | .432 [ 10.97<br>.412 [ 10.46 ]  | .1635- 41.53<br>.1615 [ 41.02 ] |                                 |                                 | .1857- 47.17<br>.1847 [ 46.91 ]  | .1539- 39.09<br>.1529 [ 38.84 ]  | .2103- 53.42<br>.2073 [ 52.65 ]  | MS18275-1                        | 25                               | 3                    | M24308/24-3F | 1218124-3              | 1218124-8 <sup>5</sup>       |                        |                          |
|                                 |                                  |                               | .1093- 27.76<br>.1073 [ 27.25 ] | .1317- 33.45<br>.1307 [ 33.20 ] |                                 |                                 | .999- 25.37<br>.989 [ 25.12 ]    | .1556- 39.52<br>.1526 [ 38.76 ]  | MS18274-1                        | 15                               | 2                                | M24308/24-2F         | 1218124-2    | 1218124-7 <sup>5</sup> |                              |                        |                          |
|                                 |                                  | .040<br>.020 [ 1.02<br>0.51 ] | .769 [ 19.53<br>.749 [ 19.02 ]  | .238 [ 6.05<br>.229 [ 5.82 ]    | .432 [ 10.97<br>.412 [ 10.46 ]  | .509 [ 12.93<br>.479 [ 12.17 ]  | .334 [ 8.48<br>.324 [ 8.23 ]     | .989 25.12<br>.979 [ 24.87 ]     | .671 17.04<br>.661 [ 16.79 ]     | .1228 31.19<br>.1198 [ 30.43 ]   | MS18273-1                        | 9                    | 1            | M24308/24-1F           | 1218124-1                    | 1218124-6 <sup>5</sup> |                          |
|                                 |                                  |                               | .544 [ 13.82<br>.524 [ 13.31 ]  | .2188- 55.58<br>.2168 [ 55.07 ] | .620 [ 15.75<br>.590 [ 14.99 ]  | .446 [ 11.33<br>.436 [ 11.07 ]  | .2411 [ 61.24<br>.2401 [ 60.99 ] | .2084 [ 52.93<br>.2074 [ 52.68 ] | .2650 [ 67.31<br>.2620 [ 66.55 ] | MS18277-1                        | 50                               | 5                    | M24308/24-5F | 1218124-5              | 1218124-5                    |                        |                          |
|                                 |                                  |                               | .282 [ 57.96<br>.2262 [ 57.45 ] | .2505- 63.63<br>.2495 [ 63.37 ] | .2187- 55.55<br>.2177 [ 55.30 ] | .2744- 69.70<br>.2714 [ 68.94 ] | MS18276-1                        | 37                               | 4                                | M24308/24-4F                     | 1218124-4                        | 1218124-4            |              |                        |                              |                        |                          |
|                                 |                                  |                               | .432 [ 10.97<br>.412 [ 10.46 ]  | .1635- 41.53<br>.1615 [ 41.02 ] | .1857- 47.17<br>.1847 [ 46.91 ] | .1539- 39.09<br>.1529 [ 38.84 ] | .2103- 53.42<br>.2073 [ 52.65 ]  | MS18275-1                        | 25                               | 3                                | M24308/24-3F                     | 1218124-3            | 1218124-3    |                        |                              |                        |                          |
| .040<br>.020 [ 1.02<br>0.51 ]   | .769 [ 19.53<br>.749 [ 19.02 ]   | .238 [ 6.05<br>.229 [ 5.82 ]  | .432 [ 10.97<br>.412 [ 10.46 ]  | .509 [ 12.93<br>.479 [ 12.17 ]  | .334 [ 8.48<br>.324 [ 8.23 ]    | .989 25.12<br>.979 [ 24.87 ]    | .671 17.04<br>.661 [ 16.79 ]     | .1228 31.19<br>.1198 [ 30.43 ]   | MS18274-1                        | 15                               | 2                                | M24308/24-2F         | 1218124-2    | 1218124-2              |                              |                        |                          |
|                                 |                                  |                               |                                 |                                 |                                 |                                 |                                  |                                  | MS18273-1                        | 9                                | 1                                | M24308/24-1F         | 1218124-1    | 1218124-1              |                              |                        |                          |
| N                               | M                                | L                             | J                               | H                               | G                               | F                               | E                                | D                                | C                                | B                                | A                                | INSERT<br>ARRANGMENT | NO OF<br>POS | SHELL<br>SIZE          | MILITARY P/N<br>ON CONNECTOR | P/N<br>ON CONNECTOR    | PART NUMBER              |

|                                        |              |  |  |  |  |                                         |                |                                                            |                                                                                                                         |                 |  |  |
|----------------------------------------|--------------|--|--|--|--|-----------------------------------------|----------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |              |  |  |  |  | DWN<br>P. YEAGER                        | 30DEC97        |                                                            |                                                                                                                         | TE Connectivity |  |  |
| DIMENSIONS:<br><br>INCHES              |              |  |  |  |  | TOLERANCES, UNLESS OTHERWISE SPECIFIED: | DWG<br>G. OVER | 30DEC97                                                    | NAME<br><br>AMPLIMITE PLUG ASSY, LOW PROFILE<br>SIZE 20 POSTED, .030 DIA SHORT POST<br>SERIES 109, SHELL SIZES 1 THRU 5 |                 |  |  |
|                                        |              |  |  |  |  | APPROV<br>H. WYNKOOP                    | 30DEC97        |                                                            |                                                                                                                         |                 |  |  |
|                                        |              |  |  |  |  | PRODUCT SPEC                            |                | SIZE    CAGE CODE    DRAWING NO.<br><br>A1 00779 C-1218124 |                                                                                                                         |                 |  |  |
|                                        |              |  |  |  |  | APPLICATION SPEC                        |                |                                                            |                                                                                                                         |                 |  |  |
| MATERIAL                               | SEE CALLOUTS |  |  |  |  | FINISH                                  | SEE CALLOUTS   |                                                            |                                                                                                                         |                 |  |  |
|                                        |              |  |  |  |  | WEIGHT                                  | —              |                                                            |                                                                                                                         |                 |  |  |
|                                        |              |  |  |  |  | CUSTOMER DRAWING                        |                |                                                            |                                                                                                                         |                 |  |  |
|                                        |              |  |  |  |  | SCALE                                   | 4:1            |                                                            | SHEET                                                                                                                   | 1 OF 2          |  |  |
|                                        |              |  |  |  |  | REV                                     | F              |                                                            |                                                                                                                         |                 |  |  |

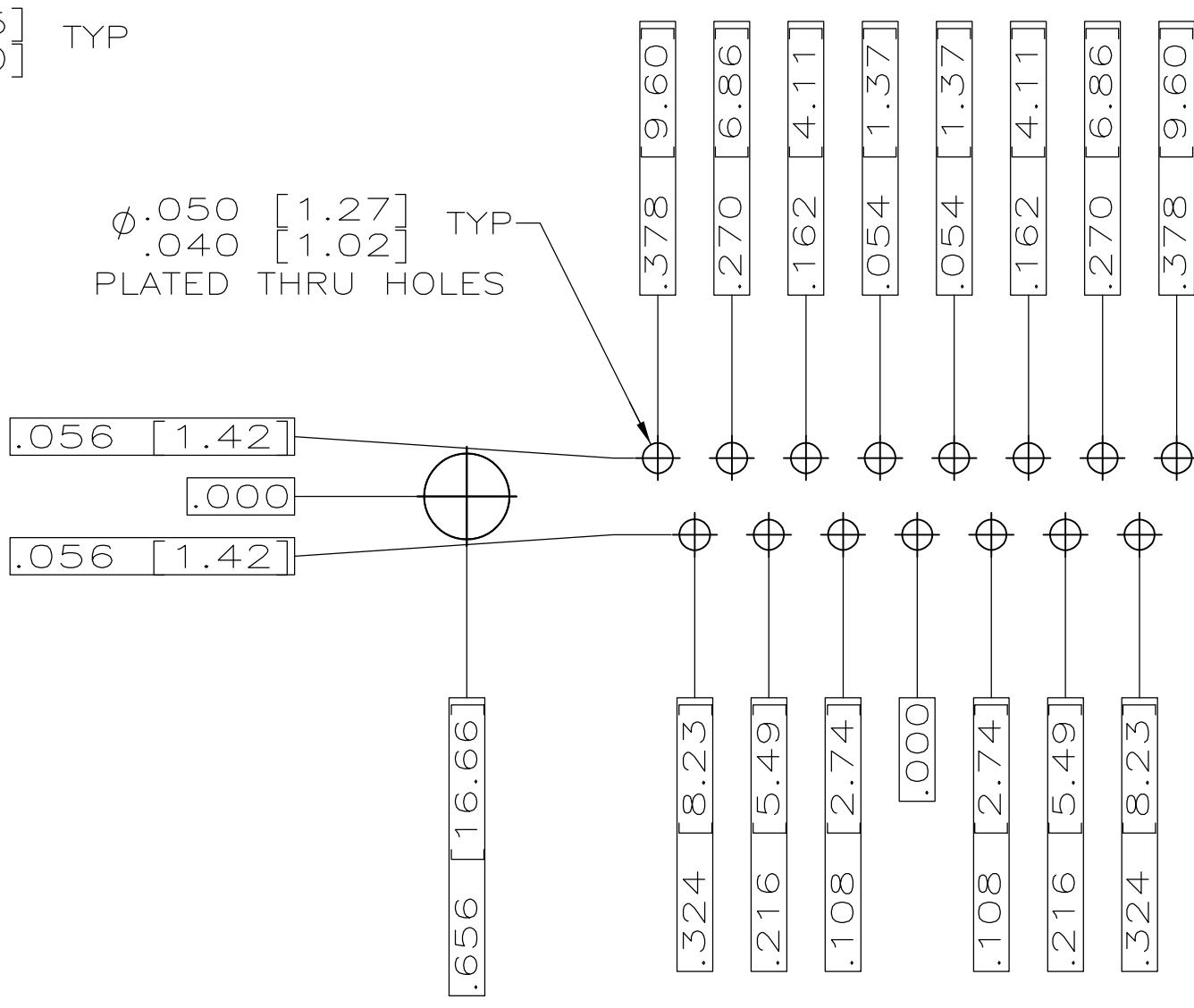


| LOC | DIST | REVISONS |     |             |      |     |
|-----|------|----------|-----|-------------|------|-----|
|     |      | P        | LTR | DESCRIPTION | DATE | DWN |
| DF  | DO   | -        | -   | SEE SHEET 1 | -    | -   |

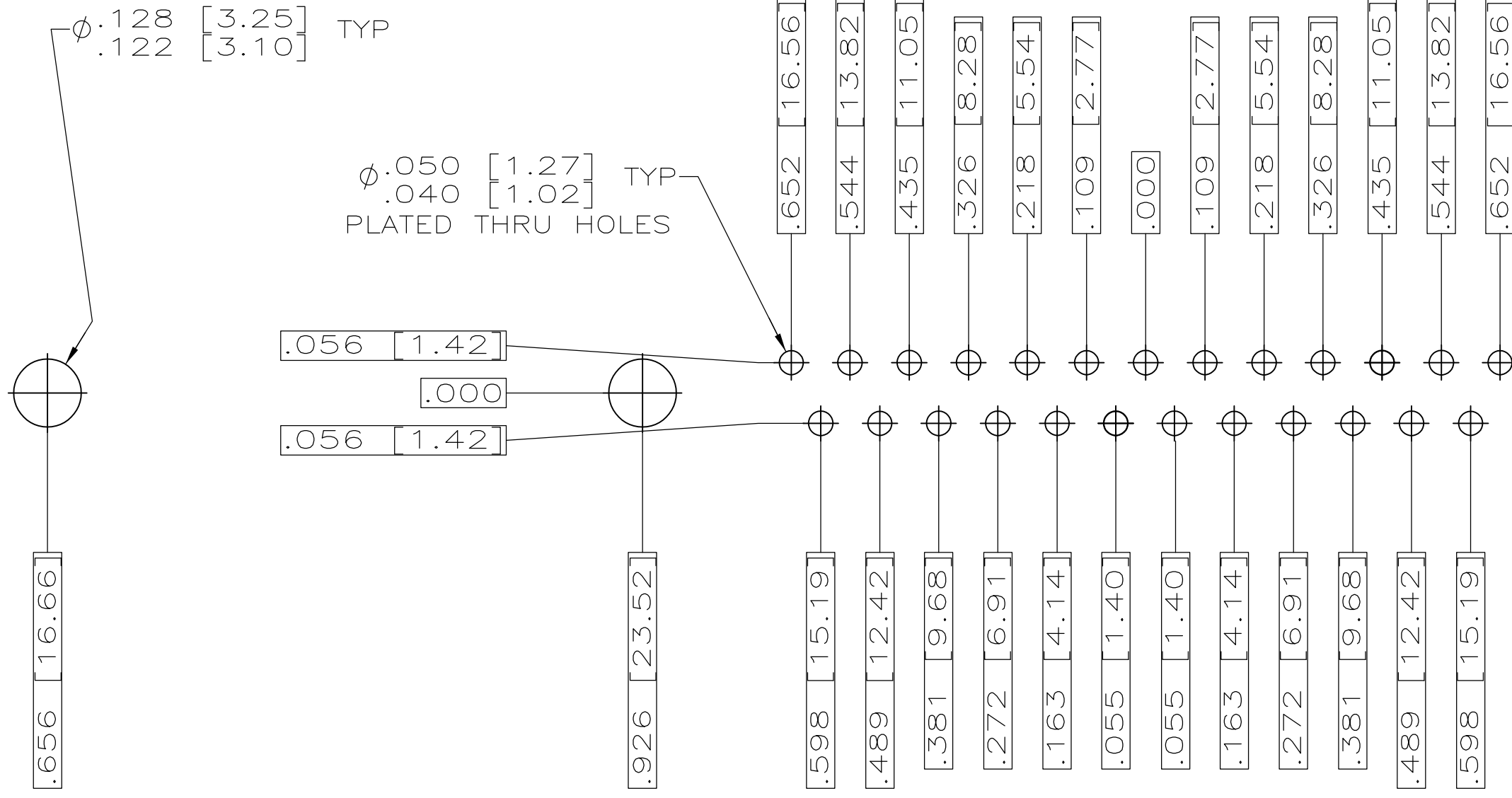
D



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

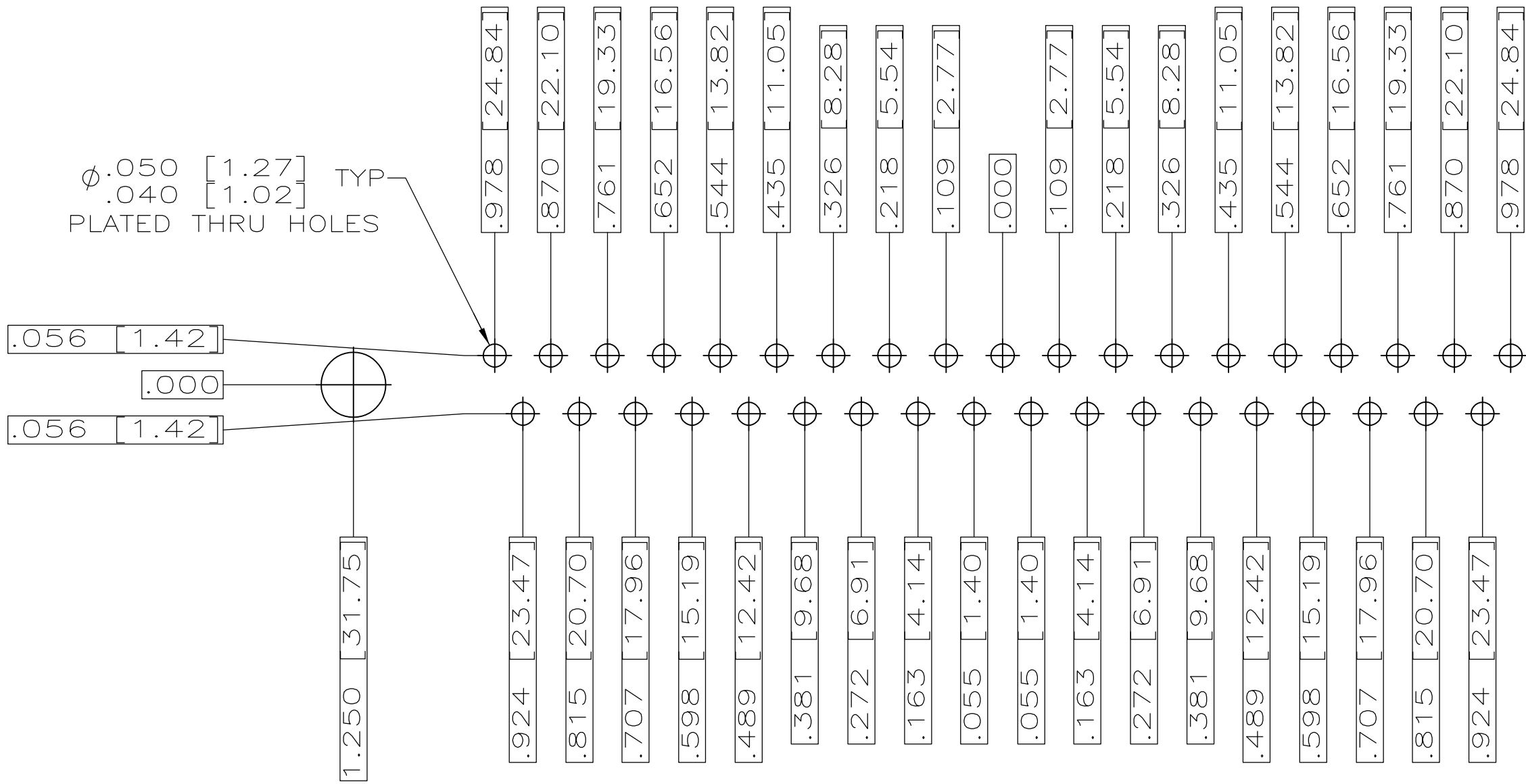


RECOMMENDED P.C. BOARD LAYOUT  
SHELL SIZE 2 (15 POSITION)

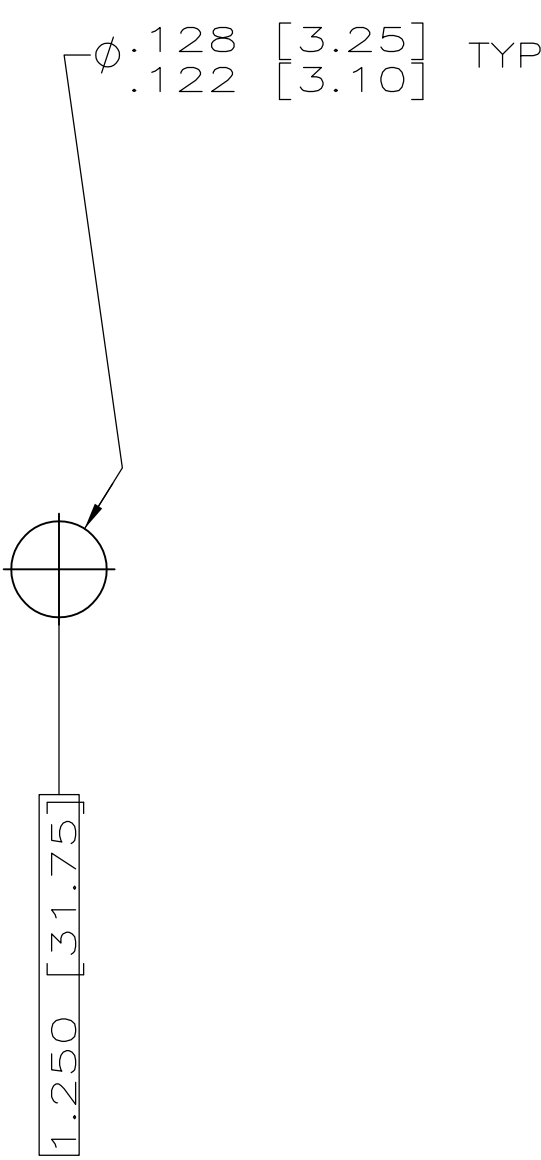


RECOMMENDED P.C. BOARD LAYOUT  
SHELL SIZE 3 (25 POSITION)

B



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



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

D

C

B

A

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± .1  
1 PLC ± .05  
2 PLC ± .02  
3 PLC ± .01  
4 PLC ± .005  
ANGLES ± .5°

MATERIAL

-

DWN  
P. YEAGER  
30DEC97

CHK  
G. OVER  
30DEC97

APVD  
G. OVER  
30DEC97

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

NAME

AMPLIMITE PLUG ASSY, LOW PROFILE  
SIZE 20 POSTED P.C. BOARD CONTACTS,  
.030 DIA SHORT POST, SERIES 109,

SIZE  
A1

CAGE CODE  
00779

DRAWING NO  
1218124

RESTRICTED TO

SCALE  
4:1

SHEET  
2

OF  
2

REV  
E1

TE Connectivity

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[1218124-6](#)