

8

7

6

5

4

3

2

1

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LOC

DIST

F

LTR

DESCRIPTION

DATE

DWN

APVD

F1

REVISED PER ECO-11-005030

11MAR11

RK

HMR

RAISED CAVITY
IDENTIFICATION NUMBERS

B

R.106
.102

[2.69]
[2.59]

TYP

Ø.125
.115

[3.18]
[2.92]

2 PLC

E

10° TYP

C

A

MATING FACE

10° TYP

H

VIEW Z-Z

MARK AMP, PART NO
AND DATE CODE, FAR SIDE.

R.065
.040

[1.65]
[1.02]

G

.224 MAX
[5.69]

M

N TYP

SEE DETAIL 'K' TYP

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

.204
[5.18]

MAX

F

.070
.030

[1.78]
[0.76]

TYP

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

DETAIL K
SCALE 8:1

.030 [0.76] MAX
EXTENSION
PERMISSIBLE DUE
TO SOLDER DIP

MARK MILITARY PART NO.
FAR SIDE

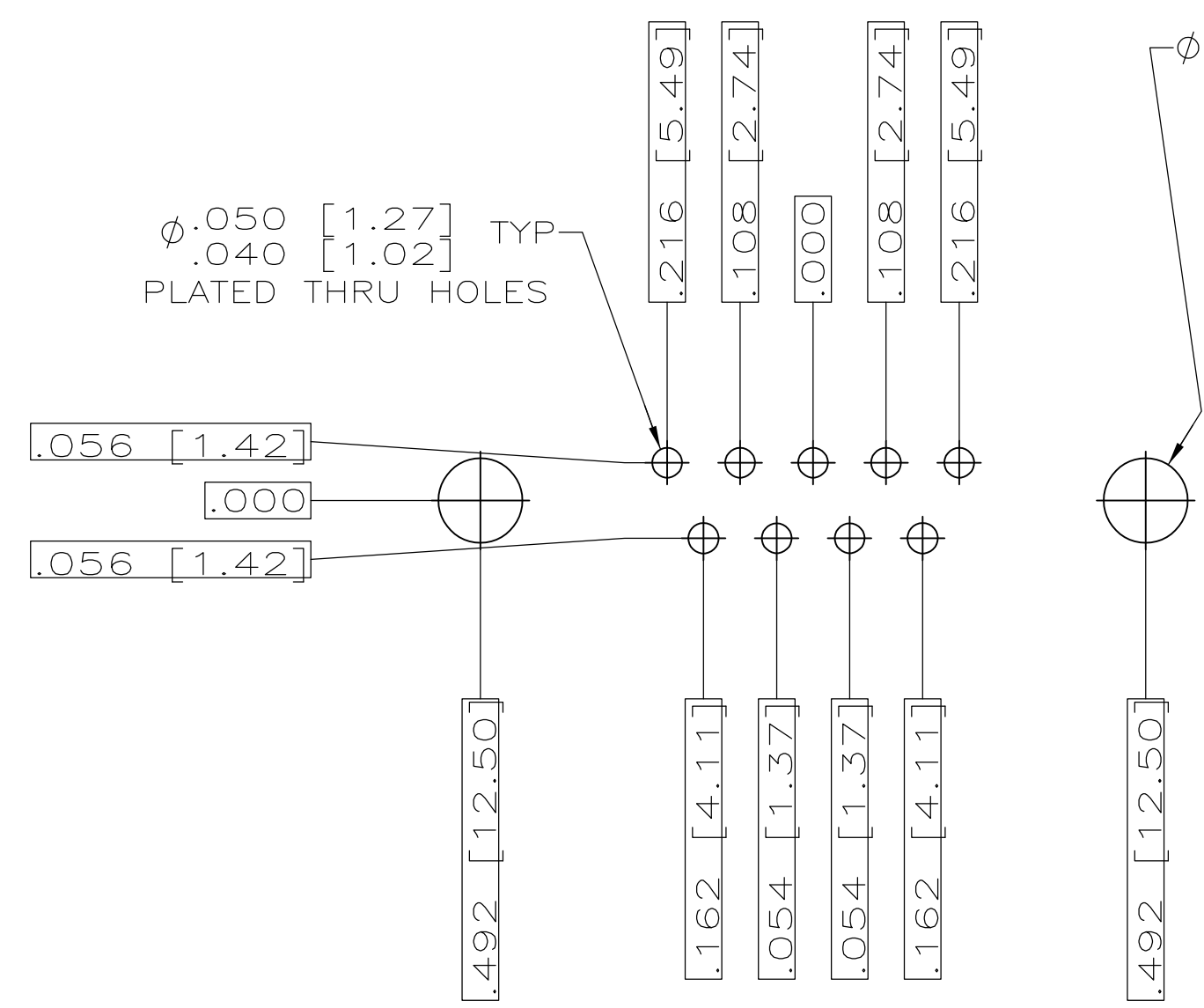
.195 MAX
[4.95]

.120 REF
[3.05]

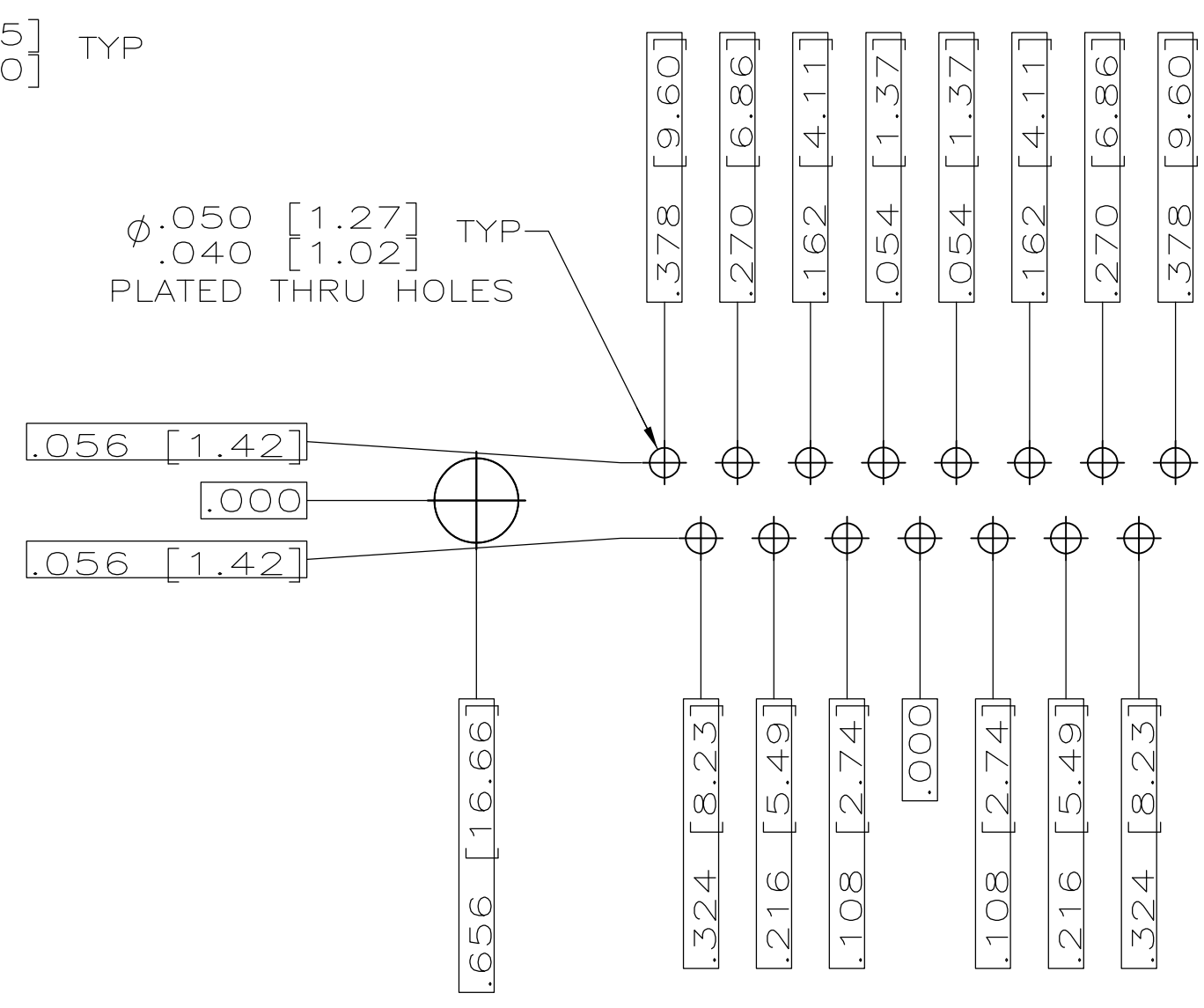
SPACER
MATL: ALUMINUM ALLOY PER
ASTM B 211
FINISH: IRIDITE PER MIL-C-5541,
CLASS 3, COLOR GOLD

			.544 .524	[13.82 [13.31]	2.188 2.168	55.58 55.07			.620 .590	[15.75 [14.99]	.446 .436	[11.33 [11.07]	2.411 2.401	[61.24 [60.99]	2.084 2.074	[52.93 [52.68]	2.650 2.620	[67.31 [66.55]	MS18277-1	50	5	M24308/24-11F	1218125-5	1-1218125-0
		.049 .029	[1.24 [0.74]		2.282 2.262	57.96 57.45	.236 .224	[5.99 [5.69]	.436 .416	[11.07 [10.57]			2.505 2.495	[63.63 [63.37]	2.187 2.177	[55.55 [55.30]	2.744 2.714	[69.70 [68.94]	MS18276-1	37	4	M24308/24-10F	1218125-4	1218125-9
				.432 .412	[10.97 [10.46]	1.635 1.615	41.53 41.02		.509 .479	[12.93 [12.17]	.334 .324	[8.48 [8.23]	1.857 1.847	[47.17 [46.91]	1.539 1.529	[39.09 [38.84]	2.103 2.073	[53.42 [52.65]	MS18275-1	25	3	M24308/24-9F	1218125-3	1218125-8
		.040 .020	[1.02 [0.51]		1.093 1.073	27.76 27.25	.238 .229	[6.05 [5.82]	.432 .412	[10.97 [10.46]			1.317 1.307	[33.45 [33.20]	.999 .989	[25.37 [25.12]	1.556 1.526	[39.52 [38.76]	MS18274-1	15	2	M24308/24-8F	1218125-2	1218125-7
				.544 .524	[13.82 [13.31]	2.188 2.168	55.58 55.07		.620 .590	[15.75 [14.99]	.446 .436	[11.33 [11.07]	2.411 2.401	[61.24 [60.99]	2.084 2.074	[52.93 [52.68]	2.650 2.620	[67.31 [66.55]	MS18277-1	50	5	M24308/24-11F	1218125-5	1218125-5
		.049 .029	[1.24 [0.74]		2.282 2.262	57.96 57.45	.236 .224	[5.99 [5.69]	.436 .416	[11.07 [10.57]			2.505 2.495	[63.63 [63.37]	2.187 2.177	[55.55 [55.30]	2.744 2.714	[69.70 [68.94]	MS18276-1	37	4	M24308/24-10F	1218125-4	1218125-4
				.432 .412	[10.97 [10.46]	1.635 1.615	41.53 41.02		.509 .479	[12.93 [12.17]	.334 .324	[8.48 [8.23]	1.857 1.847	[47.17 [46.91]	1.539 1.529	[39.09 [38.84]	2.103 2.073	[53.42 [52.65]	MS18275-1	25	3	M24308/24-9F	1218125-3	1218125-3
		.040 .020	[1.02 [0.51]		1.093 1.073	27.76 27.25	.238 .229	[6.05 [5.82]	.432 .412	[10.97 [10.46]			1.317 1.307	[33.45 [33.20]	.999 .989	[25.37 [25.12]	1.556 1.526	[39.52 [38.76]	MS18274-1	15	2	M24308/24-8F	1218125-2	1218125-2
				.544 .524	[13.82 [13.31]	2.188 2.168	55.58 55.07		.620 .590	[15.75 [14.99]	.446 .436	[11.33 [11.07]	2.411 2.401	[61.24 [60.99]	2.084 2.074	[52.93 [52.68]	2.650 2.620	[67.31 [66.55]	MS18277-1	50	5	M24308/24-11F	1218125-5	1218125-5
		.049 .029	[1.24 [0.74]		2.282 2.262	57.96 57.45	.236 .224	[5.99 [5.69]	.436 .416	[11.07 [10.57]			2.505 2.495	[63.63 [63.37]	2.187 2.177	[55.55 [55.30]	2.744 2.714	[69.70 [68.94]	MS18276-1	37	4	M24308/24-10F	1218125-4	1218125-4
				.432 .412	[10.97 [10.46]	1.635 1.615	41.53 41.02		.509 .479	[12.93 [12.17]	.334 .324	[8.48 [8.23]	1.857 1.847	[47.17 [46.91]	1.539 1.529	[39.09 [38.84]	2.103 2.073	[53.42 [52.65]	MS18275-1	25	3	M24308/24-9F	1218125-3	1218125-3
		.040 .020	[1.02 [0.51]		1.093 1.073	27.76 27.25	.238 .229	[6.05 [5.82]	.432 .412	[10.97 [10.46]			1.317 1.307	[33.45 [33.20]	.999 .989	[25.37 [25.12]	1.556 1.526	[39.52 [38.76]	MS18274-1	15	2	M24308/24-8F	1218125-2	1218125-2
				.544 .524	[13.82 [13.31]	2.188 2.168	55.58 55.07		.620 .590	[15.75 [14.99]	.446 .436	[11.33 [11.07]	2.411 2.401	[61.24 [60.99]	2.084 2.074	[52.93 [52.68]	2.650 2.620	[67.31 [66.55]	MS18277-1	50	5	M24308/24-11F	1218125-5	1218125-5
		.049 .029	[1.24 [0.74]		2.282 2.262	57.96 57.45	.236 .224	[5.99 [5.69]	.436 .416	[11.07 [10.57]			2.505 2.495	[63.63 [63.37]	2.187 2.177	[55.55 [55.30]	2.744 2.714	[69.70 [68.94]	MS18276-1	37	4	M24308/24-10F	1218125-4	1218125-4
				.432 .412	[10.97 [10.46]	1.635 1.615	41.53 41.02		.509 .479	[12.93 [12.17]	.334 .324	[8.48 [8.23]	1.857 1.847	[47.17 [46.91]	1.539 1.529	[39.09 [38.84]	2.103 2.073	[53.42 [52.65]	MS18275-1	25	3	M24308/24-9F	1218125-3	1218125-3
		.040 .020	[1.02 [0.51]		1.093 1.073	27.76 27.25	.238 .229	[6.05 [5.82]	.432 .412	[10.97 [10.46]			1.317 1.307	[33.45 [33.20]	.999 .989	[25.37 [25.12]	1.556 1.526	[39.52 [38.76]	MS18274-1	15	2	M24308/24-8F	1218125-2	1218125-2
				.544 .524	[13.82 [13.31]	2.188 2.168	55.58 55.07		.620 .590	[15.75 [14.99]	.446 .436	[11.33 [11.07]	2.411 2.401	[61.24 [60.99]	2.084 2.074	[52.93 [52.68]	2.650 2.620	[67.31 [66.55]	MS18277-1	50	5	M24308/24-11F	1218125-5	1218125-5
		.049 .029	[1.24 [0.74]		2.282 2.262	57.96 57.45	.236 .224	[5.99 [5.69]	.436 .416	[11.07 [10.57]			2.505 2.495	[63.63 [63.37]	2.187 2.177	[55.55 [55.30]	2.744 2.714	[69.70 [68.94]	MS18276-1	37	4	M24308/24-10F	1218125-4	1218125-4
				.432 .412	[10.97 [10.46]	1.635 1.615	41.53 41.02		.509 .479	[12.93 [12.17]	.334 .324	[8.48 [8.23]	1.857 1.847	[47.17 [46.91]	1.539 1.529	[39.09 [38.84]	2.103 2.073	[53.42 [52.65]	MS18275-1	25	3	M24308/24-9F	1218125-3	1218125-3
		.040 .020	[1.02 [0.51]		1.093 1.073	27.76 27.25	.238 .229	[6.05 [5.82]	.432 .412	[10.97 [10.46]			1.317 1.307	[33.45 [33.20]	.999 .989	[25.37 [25.12]	1.556 1.526	[39.52 [38.76]	MS18274-1	15	2	M24308/24-8F	1218125-2	1218125-2
				.544 .524	[13.82 [13.31]	2.188 2.168	55.58 55.07		.620 .590	[15.75 [14.99]	.446 .436	[11.33 [11.07]	2.411 2.401	[61.24 [60.99]	2.084 2.074	[52.93 [52.68]	2.650 2.620	[67.31 [66.55]	MS18277-1	50	5	M24308/24-11F	1218125-5	1218125-5
		.049 .029	[1.24 [0.74]		2.282 2.262	57.96 57.45	.236 .224	[5.99 [5.69]	.436 .416	[11.07 [10.57]			2.505 2.495	[63.63 [63.37]	2.187 2.177	[55.55 [55.30]	2.744 2.714	[69.70 [68.94]	MS18276-1	37	4	M24308/24-10F	1218125-4	1218125-4
				.432 .412	[10.97 [10.46]	1.635 1.615	41.53 41.02		.509 .479	[12.93 [12.17]	.334 .324	[8.48 [8.23]	1.857 1.847	[47.17 [46.91]	1.539 1.529	[39.09 [38.84]	2.103 2.073	[53.42 [52.65]	MS18275-1	25	3	M24308/24-9F	1218125-3	1218125-3
		.040 .020	[1.02 [0.51]		1.093 1.073	27.76 27.25	.238 .229	[6.05 [5.82]	.432 .412	[10.97 [10.46]			1.317 1.307	[33.45 [33.20]	.999 .989	[25.37 [25.12]	1.556 1.526	[39.52 [38.76]	MS18274-1	15	2	M24308/24-8F	1218125-2	1218125-2
				.544 .524	[13.82 [13.31]	2.188 2.168	55.58 55.07		.620 .590	[15.75 [14.99]	.446 .436	[11.33 [11.07]	2.411 2.401	[61.24 [60.99]	2.084 2.074	[52.93 [52.68]	2.650 2.620	[67.31 [66.55]	MS18277-1	50	5	M24308/24-11F	1218125-5	1218125-5
		.049 .029	[1.24 [0.74]		2.282 2.262	57.96 57.45	.236 .224	[5.99 [5.69]	.436 .416	[11.07 [10.57]			2.505 2.495	[63.63 [63.37]	2.187 2.177	[55.55 [55.30]	2.744 2.714	[69.70 [68.94]	MS18276-1	37	4	M24308/24-10F	1218125-4	1218125-4
				.432 .412	[10.97 [10.46]	1.635 1.615	41.53 41.02		.509 .479	[12.93 [12.17]	.334 .324	[8.48 [8.23]	1.857 1.847	[47.17 [46.91]	1.539 1.529	[39.09 [38.84]	2.103 2.073	[53.42 [52.65]	MS18275-1	25	3	M24308/24-9F	1218125-3	1218125-3
		.040 .020	[1.02 [0.51]		1.093 1.073	27.76 27.25	.238 .229	[6.05 [5.82]	.432 .412	[10.97 [10.46]			1.317 1.307	[33.45 [33.20]	.999 .989	[25.37 [25.12]	1.556 1.526	[39.52 [38.76]	MS18274-1	15	2	M24308/24-8F	1218125-2	1218125-2
				.544 .524	[13.82 [13.31]	2.188 2.168	55.58 55.07		.620 .590	[15.75 [14.99]	.446 .436	[11.33 [11.07]	2.411 2.401	[61.24 [60.99]	2.084 2.074	[52.93 [52.68]	2.650 2.620	[67.31 [66.55]	MS18277-1	50	5	M24308/24-11F	1218125-5	1218125-5
		.049 .029	[1.24 [0.74]		2.282 2.262	57.96 57.45	.236 .224	[5.99 [5.69]	.436 .416	[11.07 [10.57]			2.505 2.495	[63.63 [63.37]	2.187 2.177	[55.55 [55.30]	2.744 2.714	[69.70 [68.94]	MS18276-1	37	4	M24308/24-10F	1218125-4	1218125-4
				.432 .412	[10.97 [10.46]	1.635 1.615	41.53 41.02		.509 .479	[12.93 [12.17]	.334 .324	[8.48 [8.23]	1.857 1.847	[47.17 [46.91]	1.539 1.529	[39.09 [38.84]	2.103 2.073	[53.42 [52.65]	MS18275-1	25	3	M24308/24-9F	1218125-3	1218125-3
		.040 .020	[1.02 [0.51]		1.093 1.073	27.76 27.25	.238 .229	[6.05 [5.82]	.432 .412	[10.97 [10.46]			1.317 1.307	[33.45 [33.20]	.999 .989	[25.37 [25.12]	1.556 1.526	[39.52 [38.76]	MS18274-1	15	2	M24308/24-8F	1218125-2	1218125-2
				.544 .524	[13.82 [13.31]	2.188 2.168	55.58 55.07		.620 .590	[15.75 [14.99]	.446 .436	[11.33 [11.07]	2.411 2.401	[61.24 [60.99]	2.084 2.074	[52.93 [52.68]	2.650 2.620	[67.31 [66.55]	MS18277-1	50	5	M24308/24-11F	1218125-5	1218125-5
		.049 .029	[1.24 [0.74]		2.282 2.262	57.96 57.45	.236 .224	[5.99 [5.69]	.436 .416	[11.07 [10.57]			2.505 2.495	[63.63 [63.37]	2.187 2.177	[55.55 [55.30]	2.744 2.714	[69.70 [68.94]	MS18276-1	37	4	M24308/24-10F	1218125-4	1218125-4
				.432 .412	[10.97 [10.46]	1.635 1.615	41.53 41.02		.509 .479	[12.93 [12.17]	.334 .324	[8.48 [8.23]	1.857 1.847	[47.17 [46.91]	1.539 1.529	[39.09 [38.84]	2.103 2.073	[53.42 [52.65]	MS18275-1	25	3	M24308/24-9F	1218125-3	1218125-3
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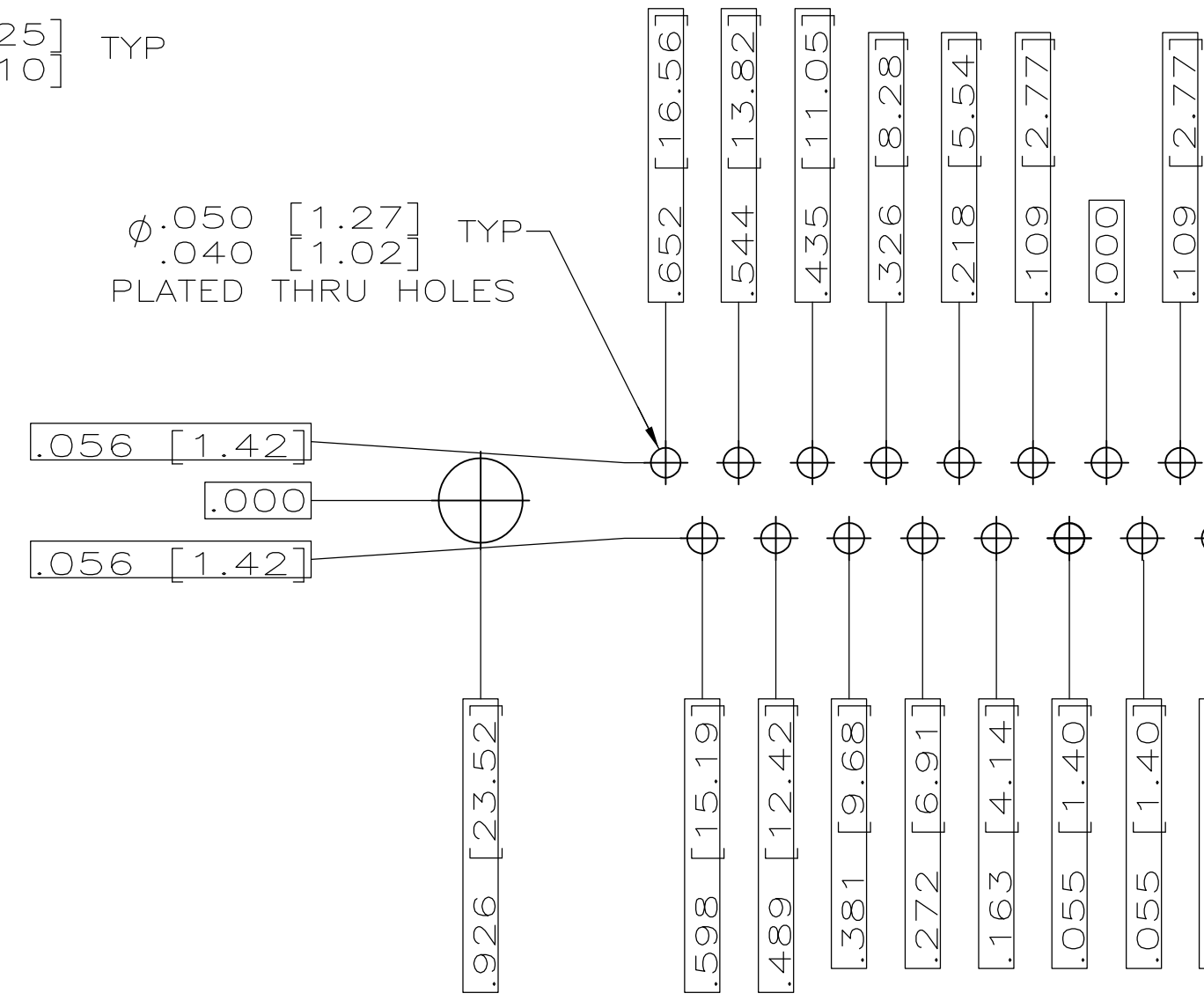
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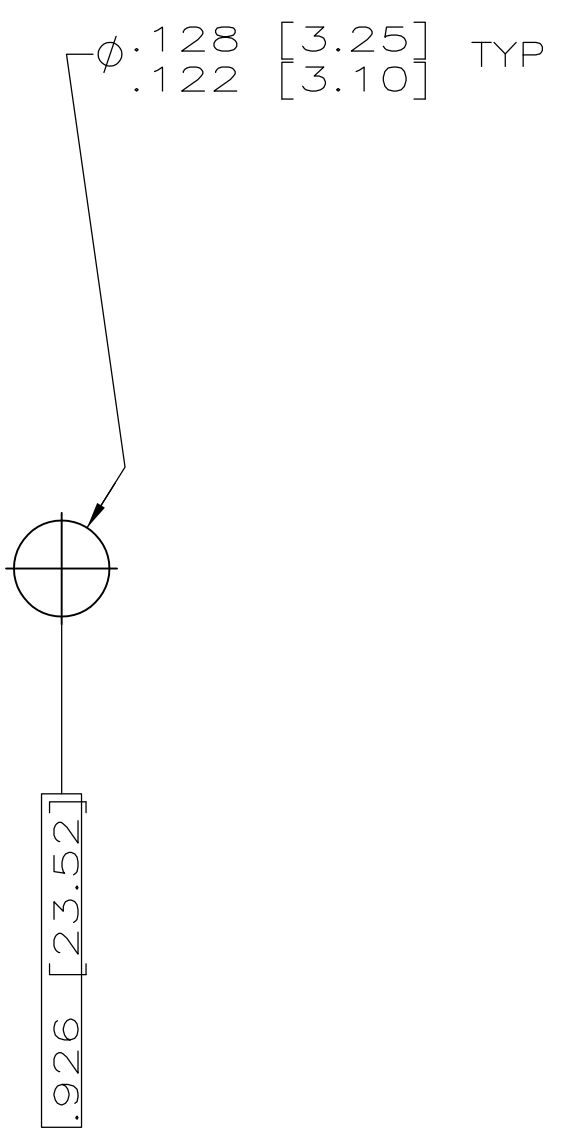
RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 1 (9 POSITION)



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

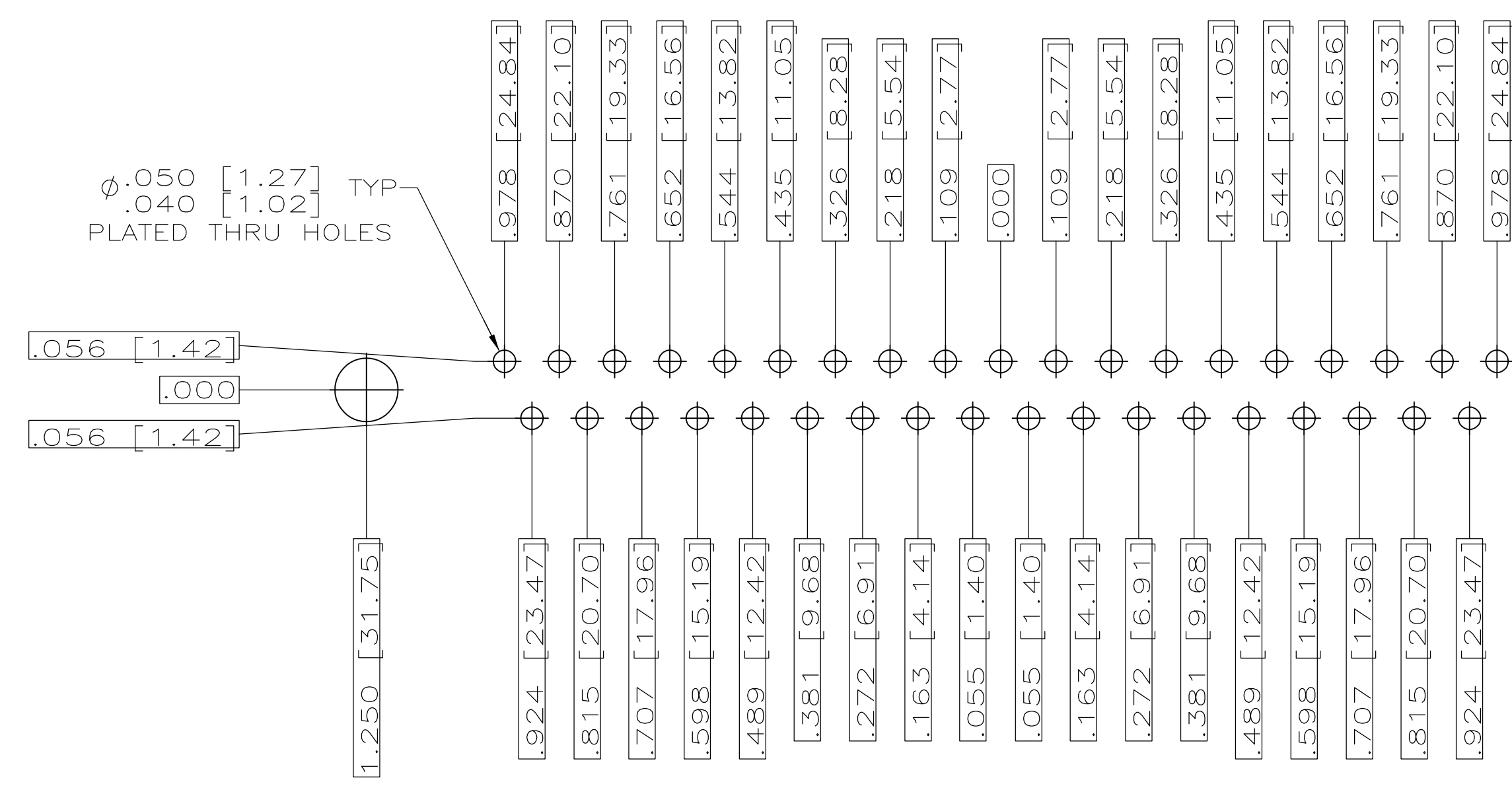


RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 3 (25 POSITION)

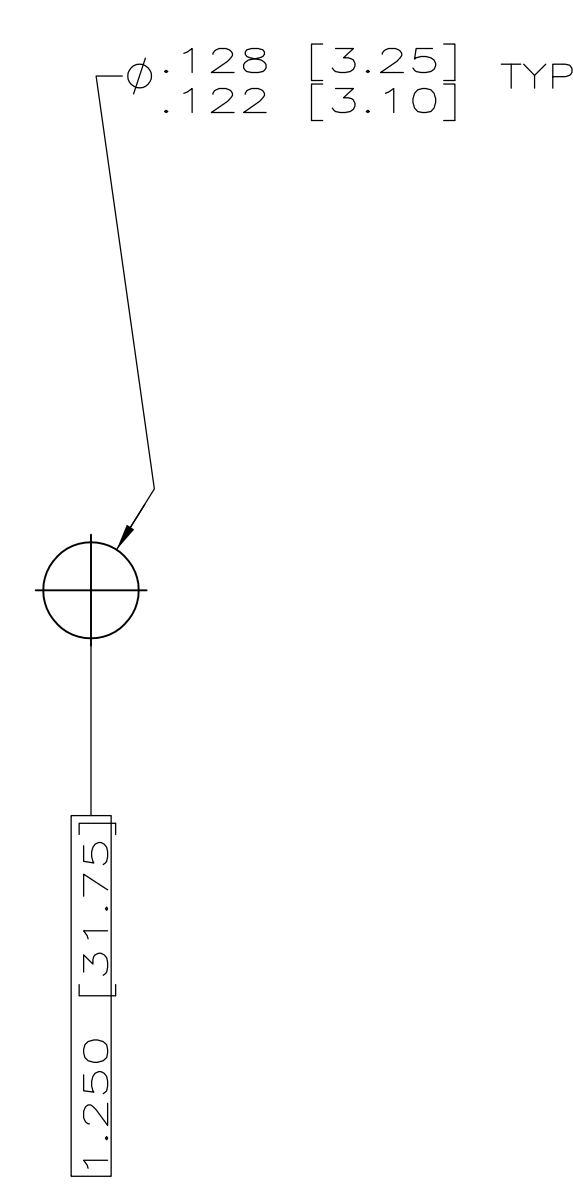


D

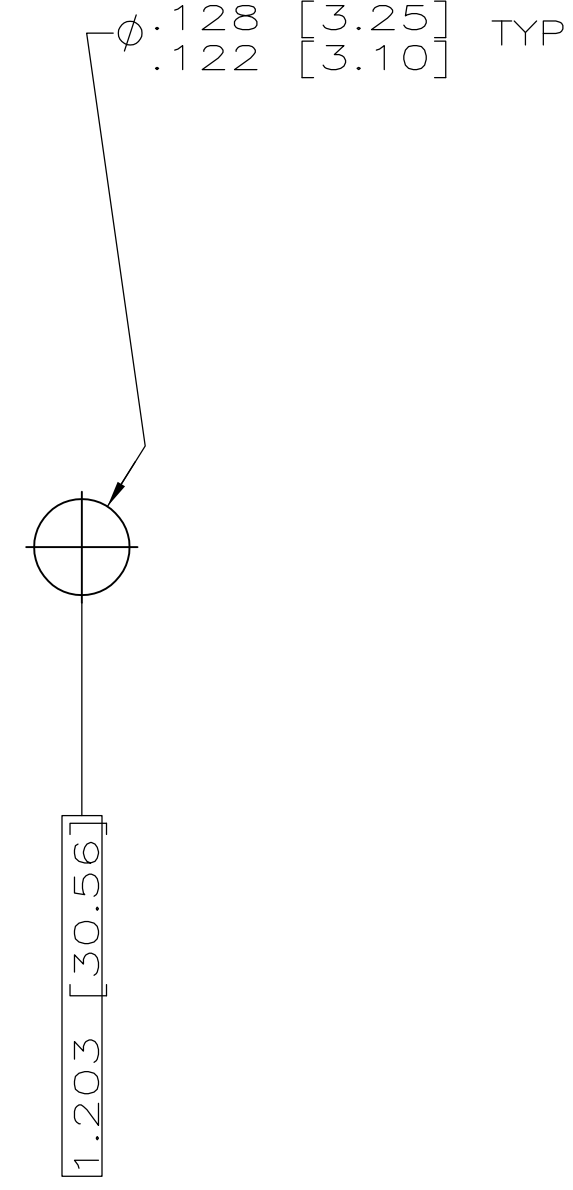
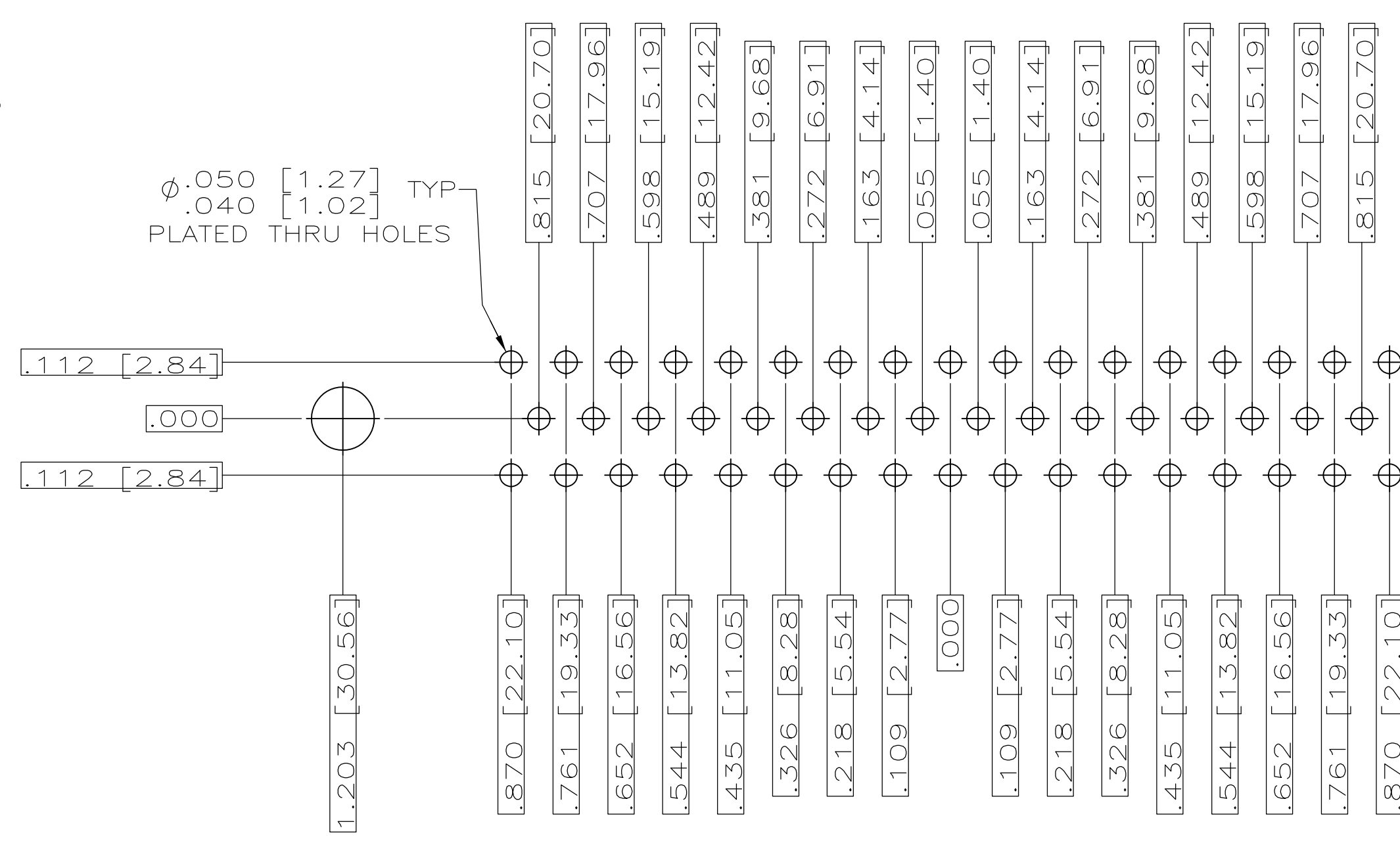
B



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



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



B

A

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PL	± .1
1 PL	± .1
2 PL	± .1
3 PL	± .1
4 PL	± .1
ANGLES	± .1

MATERIAL

-

FINISH

-

DWN
P. YEAGER

CHK
G. OVER

APVD
G. OVER

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

30DEC97

30DEC97

30DEC97

NAME

SIZE
A1

CAGE CODE
00779

DRAWING NO.
1218125

RESTRICTED TO

TE Connectivity

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

SCALE
4:1

SHEET
2

OF
2

REV
F1

Mouser Electronics

Authorized Distributor

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

[TE Connectivity:](#)

[1218125-3](#)