



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

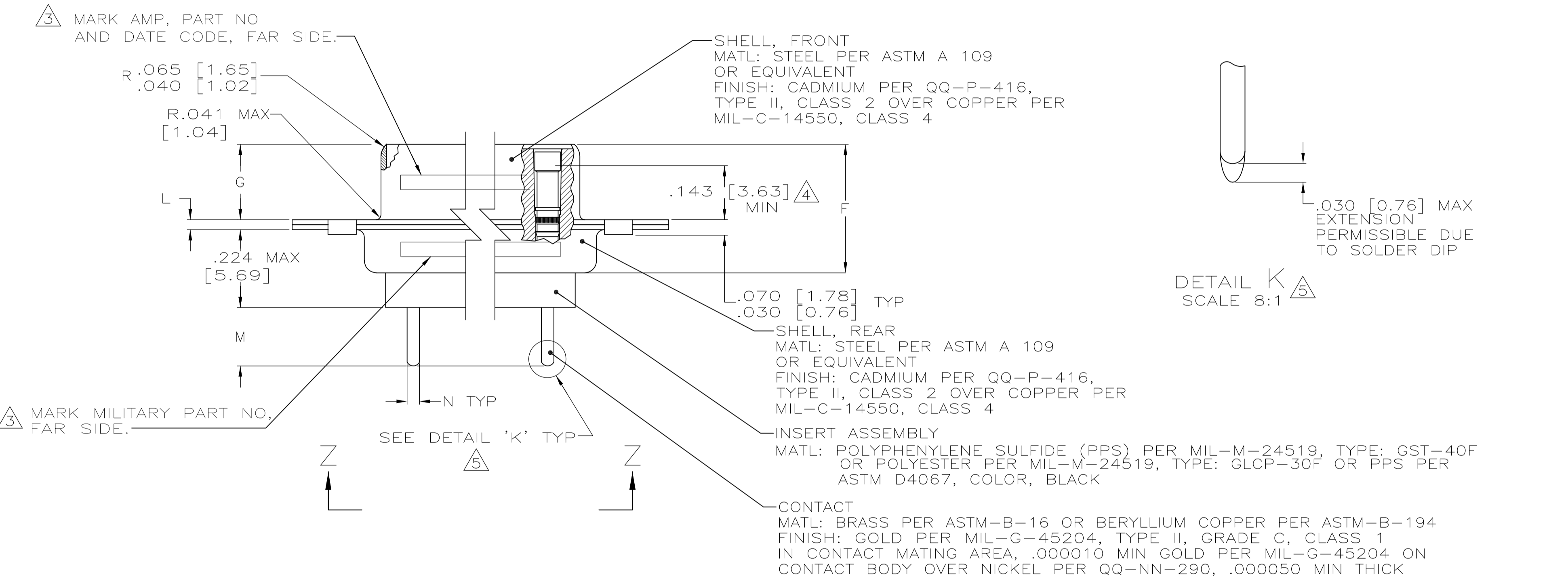
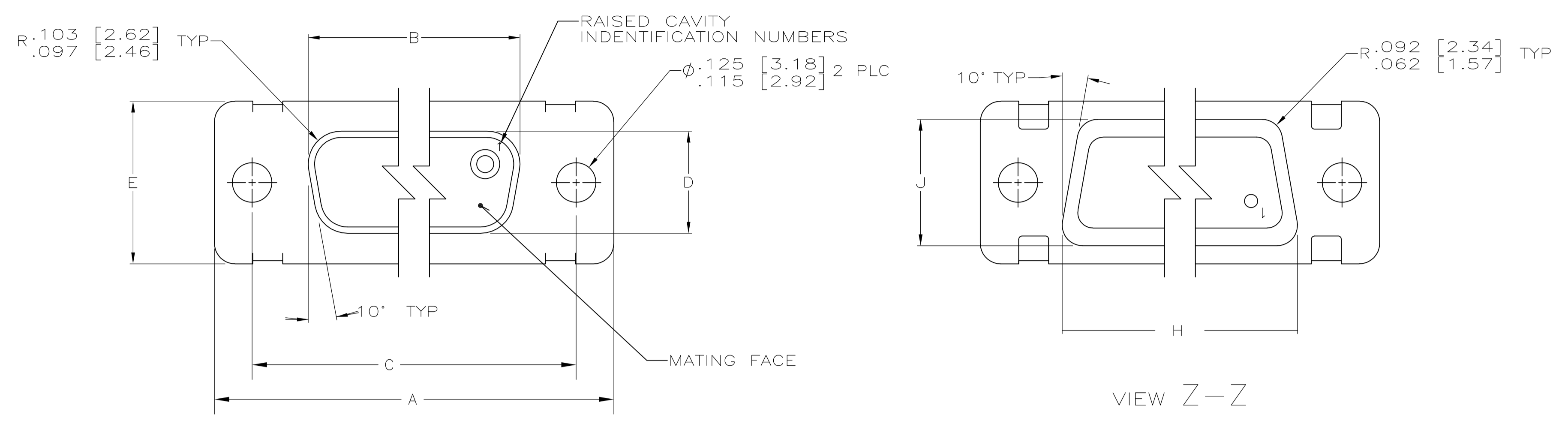
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

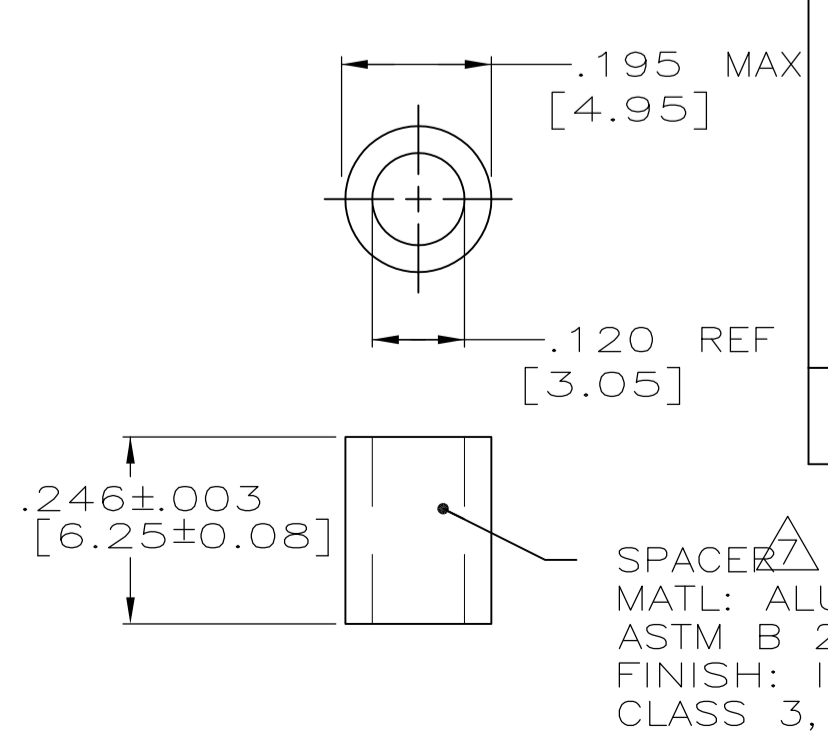


LOC		DIST		REVISIONS			
P	LTR	DESCRIPTION	DATE	DN	APVD		
D1	REVISED PER	ECO-11-005030	11MAR11	RK	HMR		



- 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 MEET THE REQUIREMENTS OF MIL-C-24308 AND MATE WITH ANY PLUG CONNECTOR WITH SAME INSERT ARRANGEMENT.
- MARK 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 REAR SHELL IS TOO SMALL FOR THE ENTIRE MILITARY PART NUMBER, MARKING SHALL BE LOCATED AS FOLLOWS:
  - "M24308" ON FRONT SHELL, FAR SIDE.
  - SLASH SHEET AND DASH NUMBER ON REAR SHELL, FAR SIDE.
  - "AMP" AND DATE CODE ON FRONT SHELL, NEAR SIDE.
  - PART NUMBER ON REAR SHELL, NEAR SIDE.
 IF THE FRONT SHELL IS TOO SMALL FOR "AMP", PART NUMBER AND DATE CODE, THEN SPLIT AS FOLLOWS:
  - PART NUMBER ON REAR SHELL, NEAR SIDE.
  - "AMP" AND DATE CODE ON FRONT SHELL, NEAR SIDE.
  - MILITARY PART NUMBER ON REAR SHELL, FAR SIDE.
- POINT OF ELECTRICAL ENGAGEMENT - AS MEASURED WITH A .0390 [0.991]-.0393 [0.998] DIA SQUARE ENDED TEST PIN.
- SOLDER DIP 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.
- 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).
- DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982.
- THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100.

N	M	L	J	H	G	F	E	D	C	B	A	INSERT ARRANGEMENT	NO OF POS	SHELL SIZE	MILITARY P/N ON CONNECTOR	P/N ON CONNECTOR	PART NUMBER	
.033 [0.84] .027 [0.69]	.176 [4.47] .136 [3.45]	.040 [1.02] .020 [0.51]	.544 [13.82] .524 [13.31]	2.188 [55.58] 2.168 [55.07]	.248 [6.30] .238 [6.05]	.439 [11.15] .419 [10.64]	.620 [15.75] .590 [14.99]	.428 [10.87] .418 [10.62]	2.411 [61.24] 2.401 [60.99]	2.069 [52.55] 2.059 [52.30]	2.650 [67.31] 2.620 [66.55]	MS18277-1	50	5	M24308/23-5F	443975-5	1-443975-0	
			2.282 [57.96] 2.262 [57.45]	2.505 [63.63] 2.495 [63.37]			2.164 [54.97] 2.154 [54.71]	2.744 [69.70] 2.714 [68.94]	MS18276-1	37	4	M24308/23-4F	443975-4	443975-9				
.432 [10.97] .412 [10.46]	.1093 [27.76] 1.073 [27.25]	.0749 [19.02]	1.635 [41.53] 1.615 [41.02]	.316 [8.03] .306 [7.77]	.509 [12.93] .479 [12.17]	.316 [8.03] .306 [7.77]	1.857 [47.17] 1.847 [46.91]	1.516 [38.51] 1.506 [38.25]	2.103 [53.42] 2.073 [52.65]	.976 [24.79] .966 [24.54]	1.556 [39.52] 1.526 [38.76]	MS18275-1	25	3	M24308/23-3F	443975-3	443975-8	
			1.093 [27.76] 1.073 [27.25]				1.317 [33.45] 1.307 [33.20]	1.976 [24.79] 1.966 [24.54]	2.103 [53.42] 2.073 [52.65]			MS18274-1	15	2	M24308/23-2F	443975-2	443975-7	
.033 [0.84] .027 [0.69]	.176 [4.47] .136 [3.45]	.040 [1.02] .020 [0.51]	.769 [19.53] .749 [19.02]	.248 [6.30] .238 [6.05]	.439 [11.15] .419 [10.64]	.620 [15.75] .590 [14.99]	.428 [10.87] .418 [10.62]	2.411 [61.24] 2.401 [60.99]	2.069 [52.55] 2.059 [52.30]	2.650 [67.31] 2.620 [66.55]	.976 [24.79] .966 [24.54]	1.556 [39.52] 1.526 [38.76]	MS18273-1	9	1	M24308/23-1F	443975-1	443975-6
			2.282 [57.96] 2.262 [57.45]					2.505 [63.63] 2.495 [63.37]	2.164 [54.97] 2.154 [54.71]	2.744 [69.70] 2.714 [68.94]			MS18277-1	50	5	M24308/23-5F	443975-5	443975-5
.432 [10.97] .412 [10.46]	.1093 [27.76] 1.073 [27.25]	.0749 [19.02]	1.635 [41.53] 1.615 [41.02]	.316 [8.03] .306 [7.77]	.509 [12.93] .479 [12.17]	.316 [8.03] .306 [7.77]	1.857 [47.17] 1.847 [46.91]	1.516 [38.51] 1.506 [38.25]	2.103 [53.42] 2.073 [52.65]	.976 [24.79] .966 [24.54]	1.556 [39.52] 1.526 [38.76]	MS18276-1	37	4	M24308/23-4F	443975-4	443975-4	
			1.093 [27.76] 1.073 [27.25]				1.317 [33.45] 1.307 [33.20]	1.976 [24.79] 1.966 [24.54]	2.103 [53.42] 2.073 [52.65]			MS18275-1	25	3	M24308/23-3F	443975-3	443975-3	
.033 [0.84] .027 [0.69]	.176 [4.47] .136 [3.45]	.040 [1.02] .020 [0.51]	.769 [19.53] .749 [19.02]	.248 [6.30] .238 [6.05]	.439 [11.15] .419 [10.64]	.620 [15.75] .590 [14.99]	.428 [10.87] .418 [10.62]	2.411 [61.24] 2.401 [60.99]	2.069 [52.55] 2.059 [52.30]	2.650 [67.31] 2.620 [66.55]	.976 [24.79] .966 [24.54]	1.556 [39.52] 1.526 [38.76]	MS18274-1	15	2	M24308/23-2F	443975-2	443975-2
			2.282 [57.96] 2.262 [57.45]					2.505 [63.63] 2.495 [63.37]	2.164 [54.97] 2.154 [54.71]	2.744 [69.70] 2.714 [68.94]			MS18273-1	9	1	M24308/23-1F	443975-1	443975-1



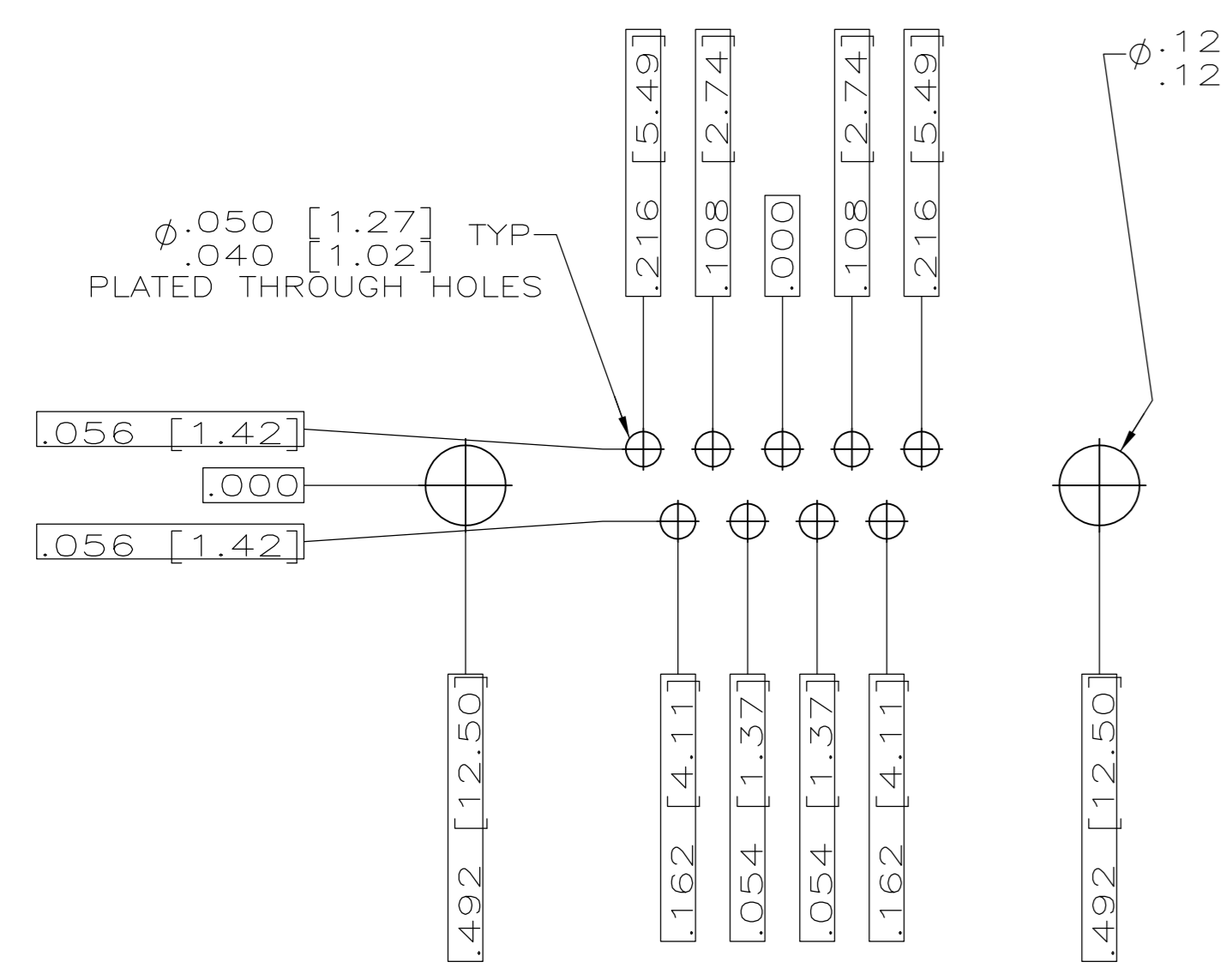
THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	0 PLC ± -	1 PLC ± -	2 PLC ± -	3 PLC ± -	4 PLC ± -	ANGLES ± °
--------------------	--	-----------	-----------	-----------	-----------	-----------	------------

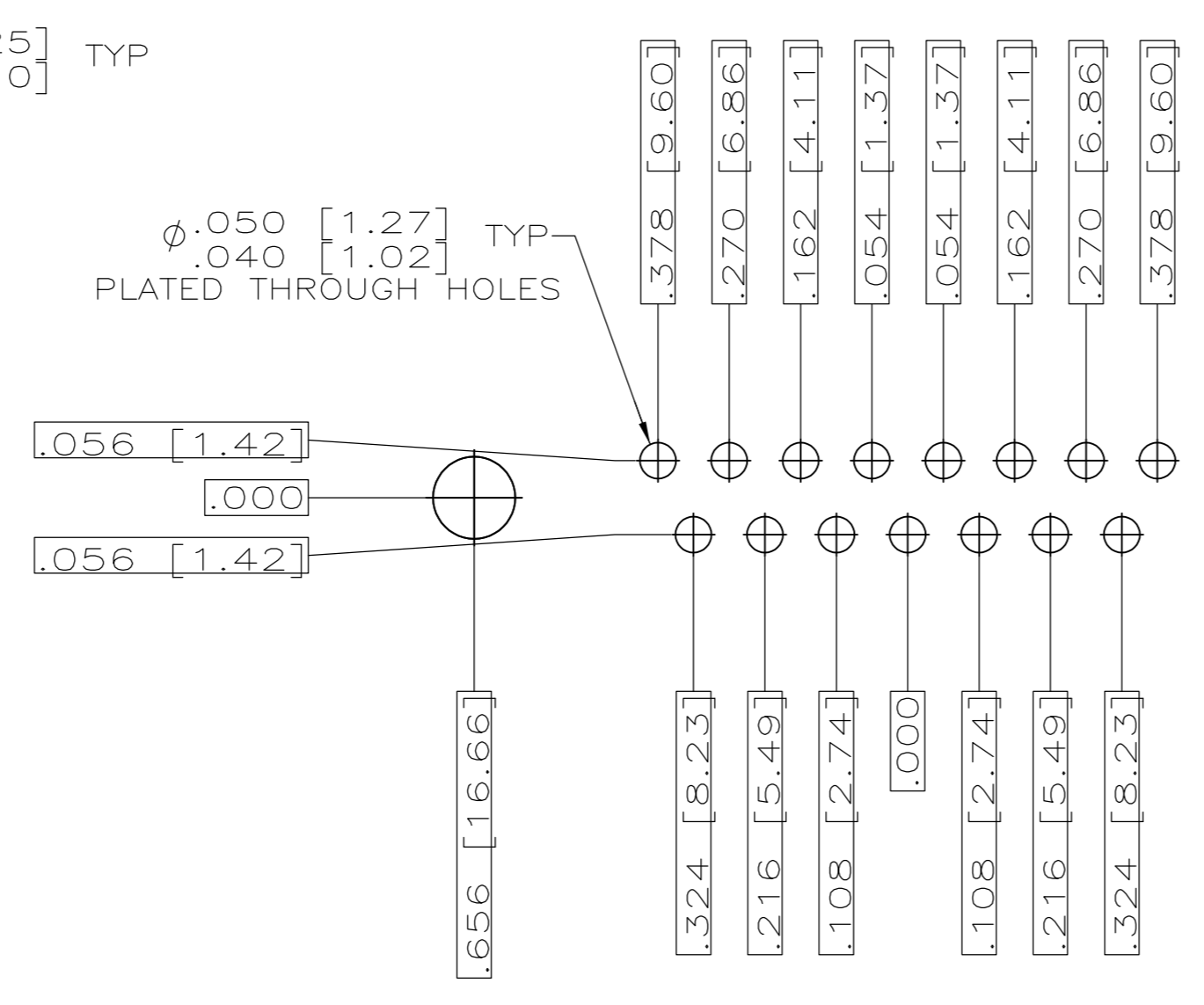
MATERIAL: SEE CALLOUTS FINISH: SEE CALLOUTS

THIS DRAWING IS A CONTROLLED DOCUMENT. J.A. BAKER 05MAY97 15MAY98 G. OVER 15MAY98 NAME: AMPLIMITE RECEPTACLE ASSY W/ SIZE 20 POSTED PC BOARD CONTACTS SERIES 109, SIZES 1 THRU 5

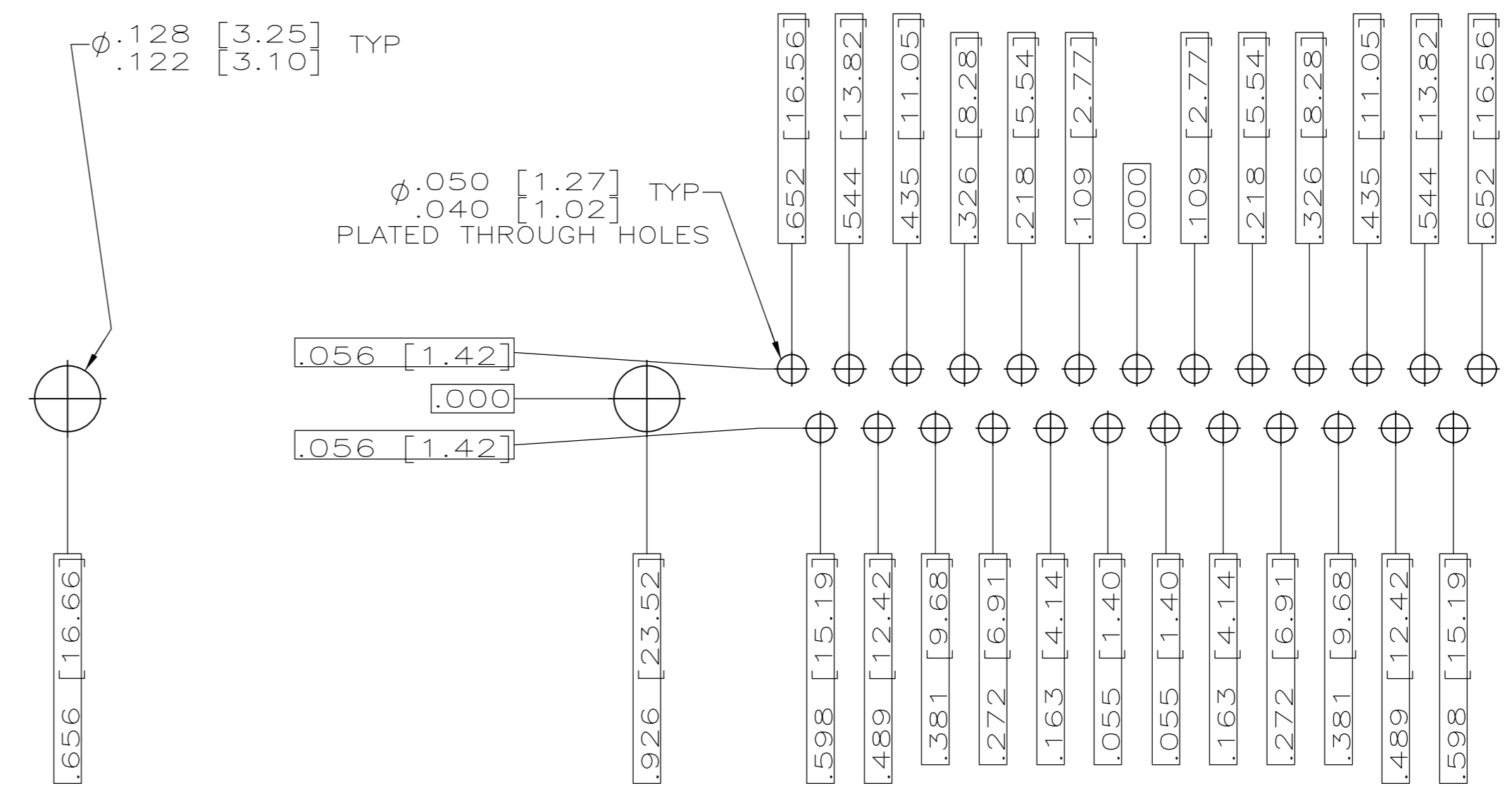
SIZE: A1 CASE CODE: 00779 DRAWING NO: 443975 RESTRICTED TO: CUSTOMER DRAWING SCALE: 4:1 SHEET: 1 OF 2 REV: D1



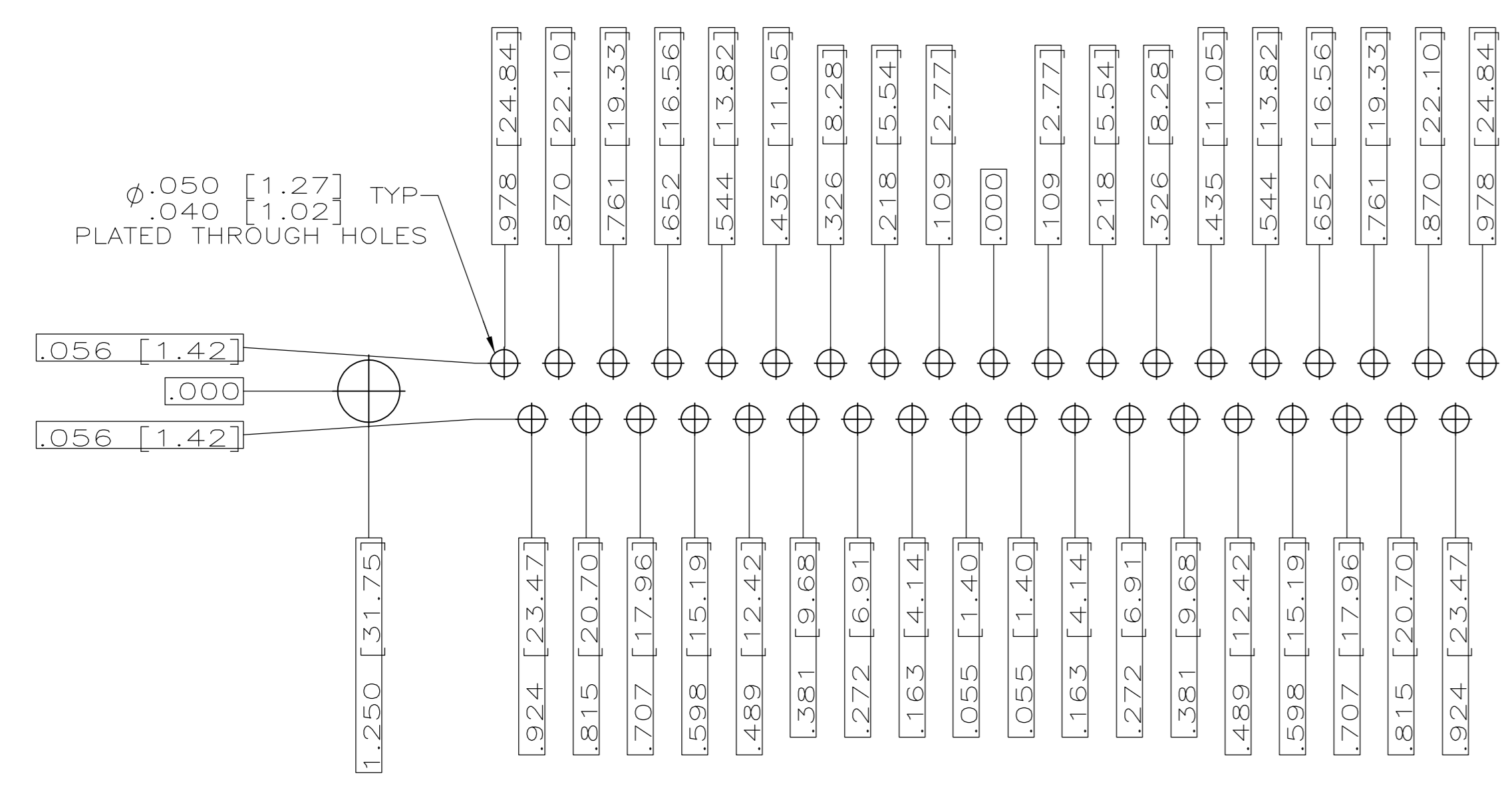
RECOMMENDED P.C. BOARD LAYOUT  
SHELL SIZE 1 (9 POSITION)  $\triangle$



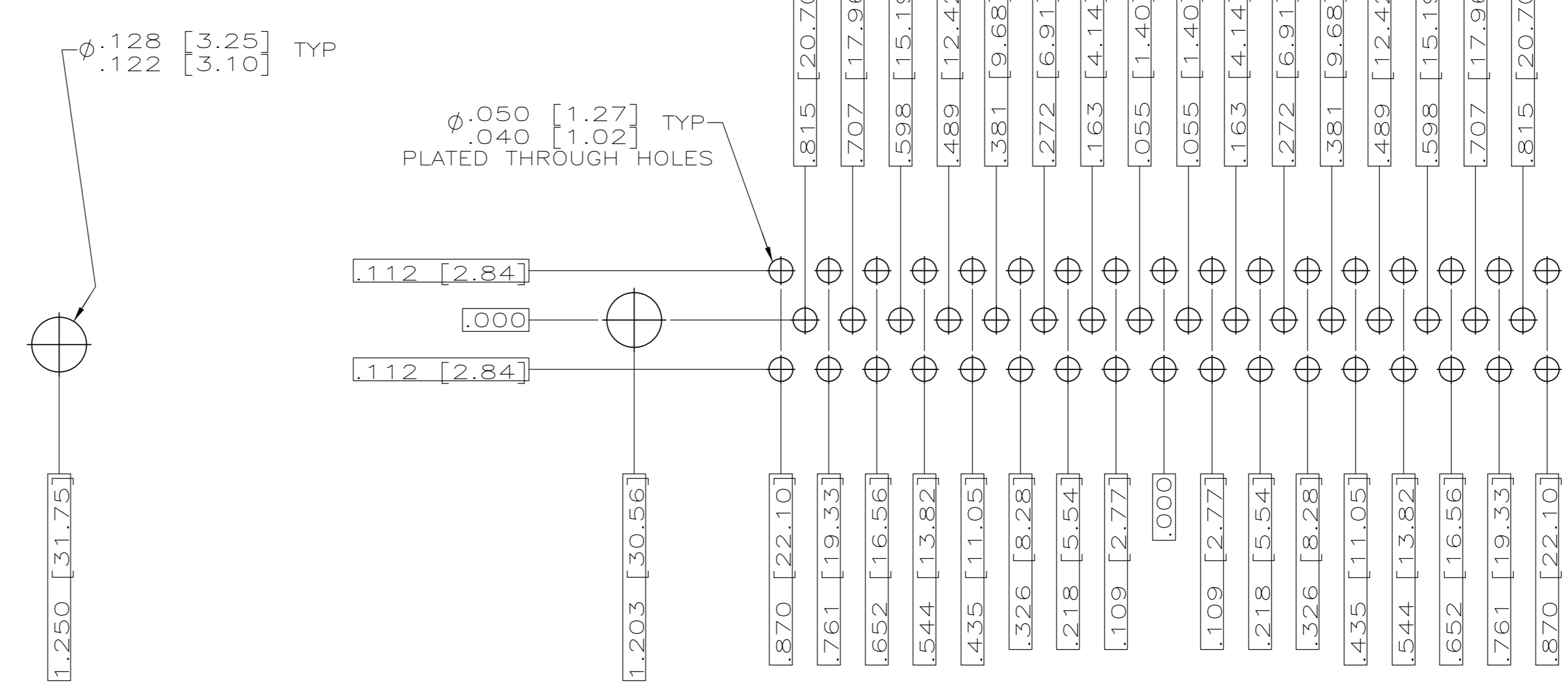
RECOMMENDED P.C. BOARD LAYOUT  
SHELL SIZE 2 (15 POSITION)  $\triangle$



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



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



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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN J.A. Baker	OSMAY97		TE Connectivity	
DIMENSIONS: INCHES		CHK G. OVER	15MAY98		AMPLIMITE RECEPTACLE ASSY WITH SIZE 20 STRAIGHT POSTED P.C. BOARD CONTACTS, SERIES 109.	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD		NAME		
0 PLC ± .005		PRODUCT SPEC		MIL-C-24308		
1 PLC ± .005		APPLICATION SPEC		SIZE		
2 PLC ± .005		WEIGHT		CAGE CODE		
3 PLC ± .005		CUSTOMER DRAWING		DRAWING NO		
4 PLC ± .005		SCALE		RESTRICTED TO		
FINISH		4:1		SHEET		
SEE CALLOUTS		2 OF 2		REV		
		D1				