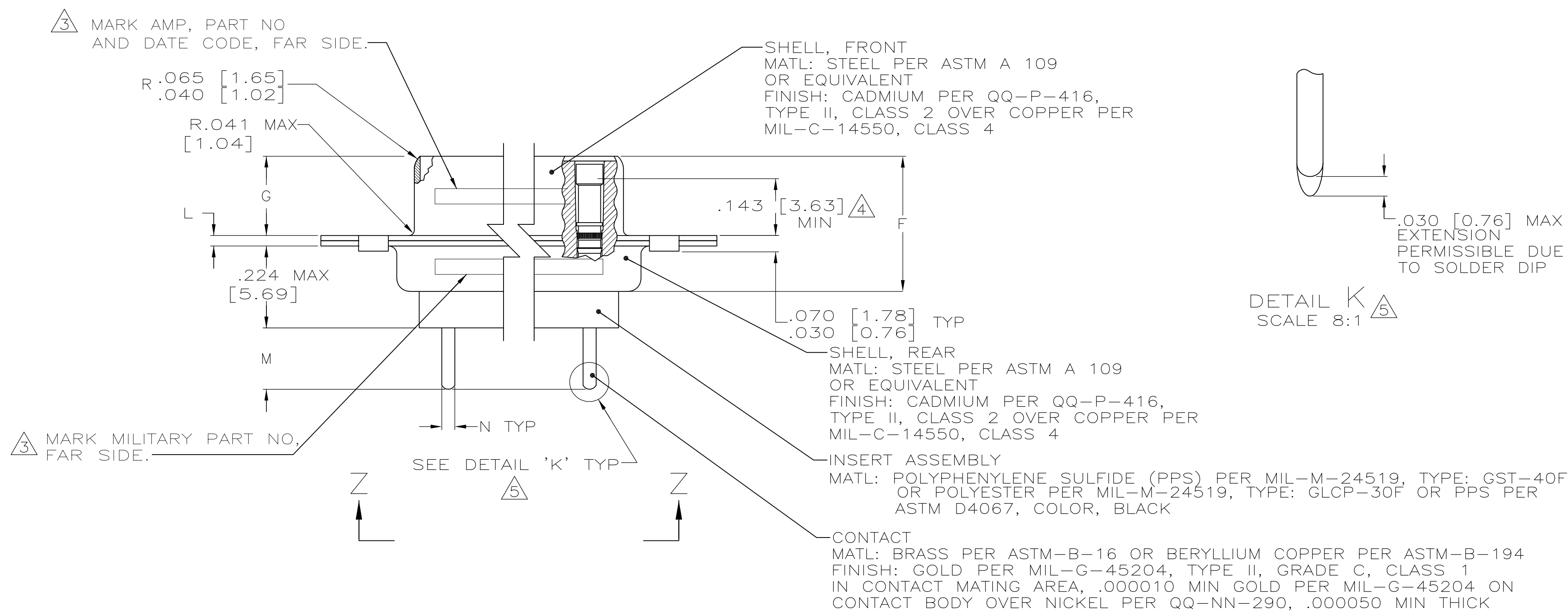
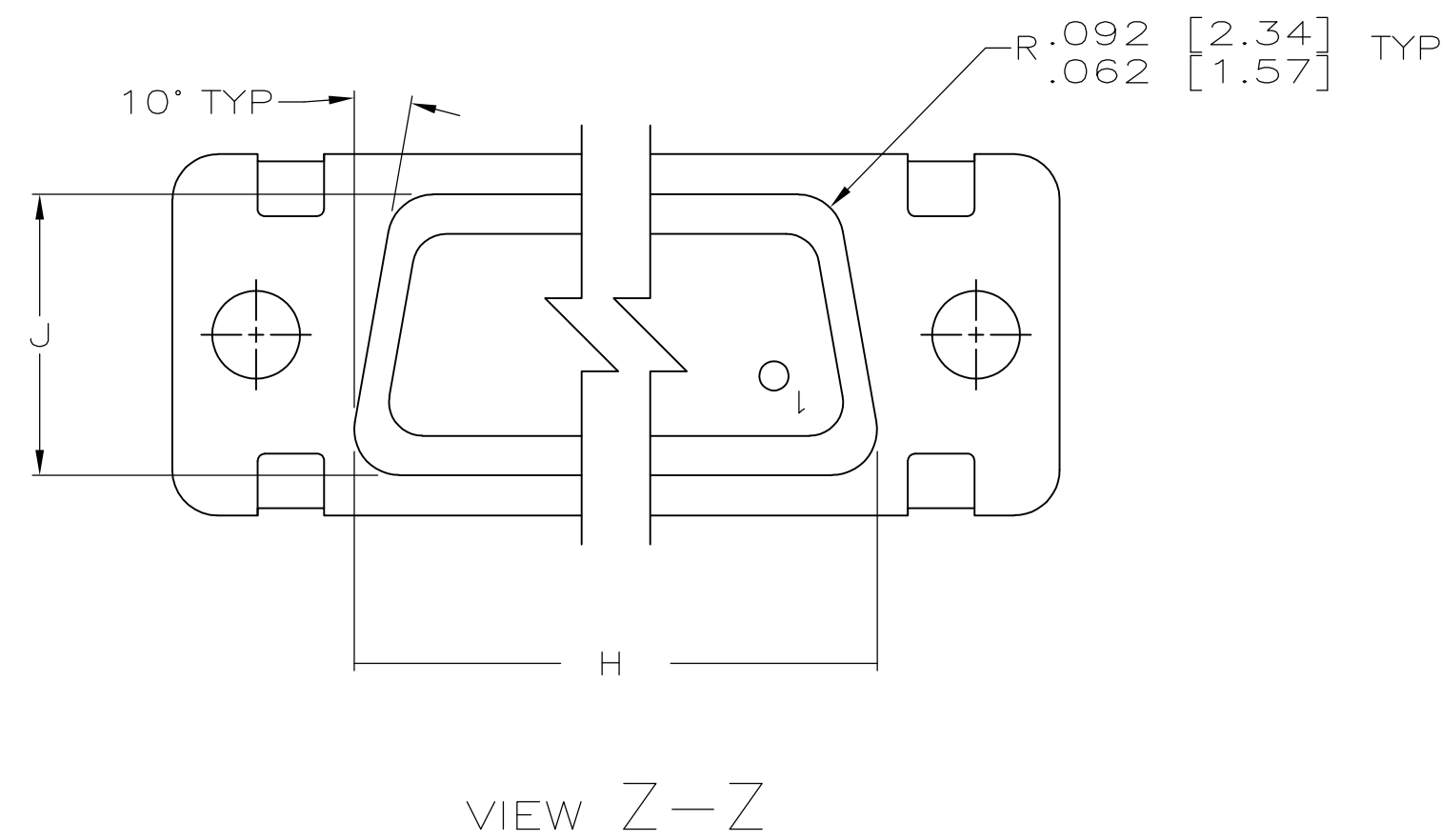
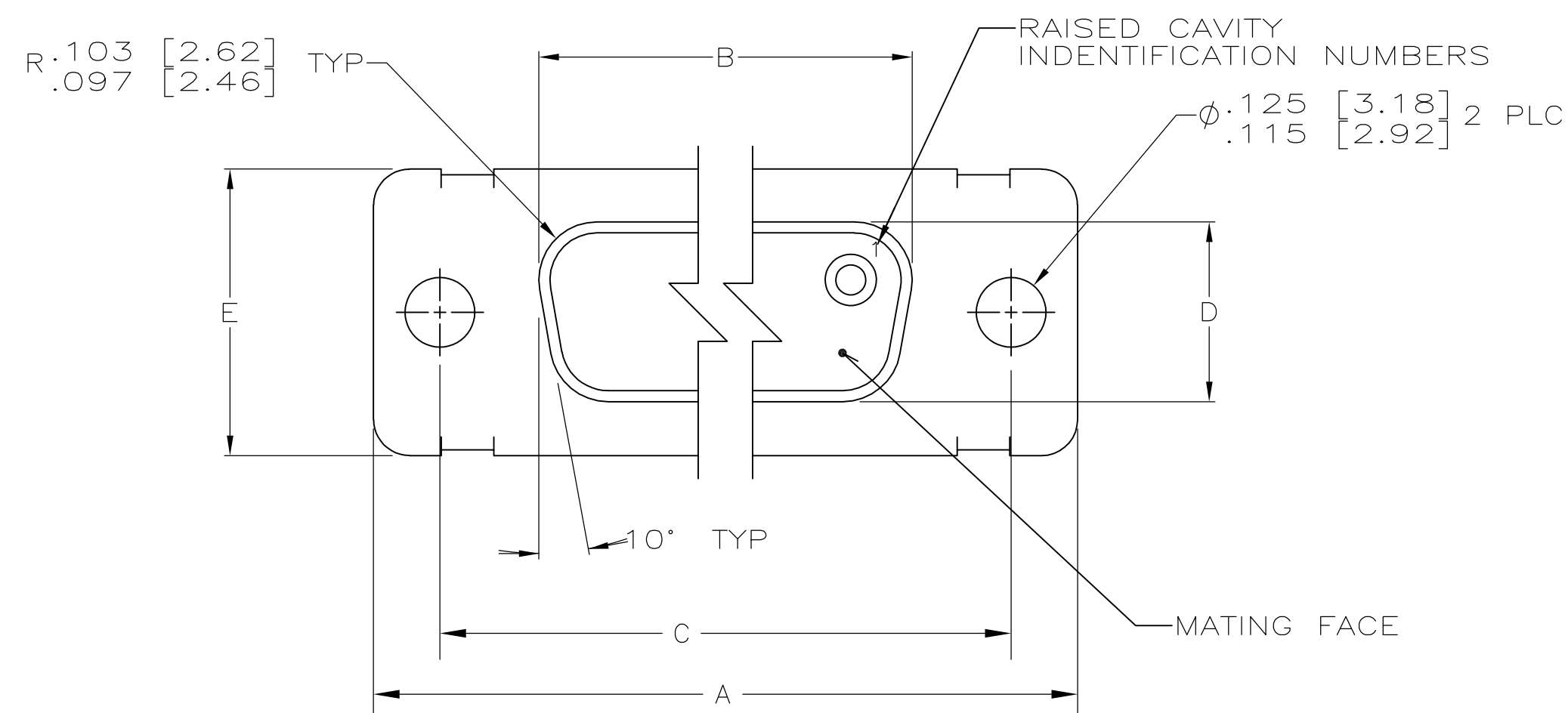




1. SEE SHEET 2 FOR RECOMMENDED P.C. BOARD LAYOUT. TRUE POSITION TOLERANCE FOR P.C. BOARD LAYOUT IS .010 [0.25] AT MAX MATERIAL CONDITION. SUGGESTED BOARD THICKNESS IS .125 [3.18]
2. THE CONNECTORS DESCRIBED IN THIS DOCUMENT MEET THE REQUIREMENTS OF MIL-C-24308 AND MATE WITH ANY PLUG CONNECTOR WITH SAME INSERT ARRANGEMENT.
3. 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:
 - A. "M24308" ON FRONT SHELL, FAR SIDE.
 - B. SLASH SHEET AND DASH NUMBER ON REAR SHELL, FAR SIDE.
 - C. "AMP" AND DATE CODE ON FRONT SHELL, NEAR SIDE.
 - D. PART NUMBER ON REAR SHELL, NEAR SIDE.

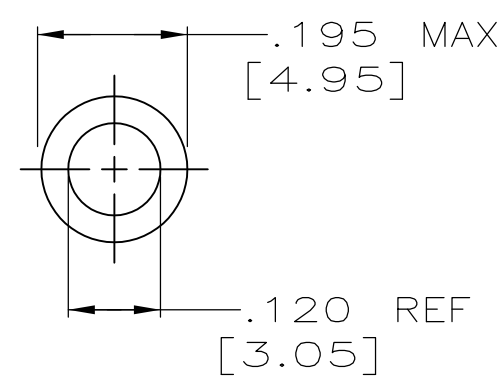
- IF THE FRONT SHELL IS TOO SMALL FOR "AMP", PART NUMBER AND DATE CODE, THEN SPLIT AS FOLLOWS:

- A. PART NUMBER ON REAR SHELL, NEAR SIDE.
B. "AMP" AND DATE CODE ON FRONT SHELL, NEAR SIDE.
C. MILITARY PART NUMBER ON REAR SHELL, FAR SIDE.

4. POINT OF ELECTRICAL ENGAGEMENT - AS MEASURED WITH
A .0390 [0.991]-.0393 [0.998] DIA SQUARE ENDED TEST PIN.
5. 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.
6. THE SOLDER DIP PROCESS IS PERFORMED SUBSEQUENT TO THE COMPLETION
OF PRODUCTION OF THE MILITARY QUALIFIED CONNECTOR. DIMENSIONS
APPLY PRIOR TO SOLDER DIPPING.
7. 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.

.033 .027	.084 .069	.176 .136	4.47 3.45	.040 .020	1.02 0.51	.544 .524	13.82 13.31	2.188 2.168	55.58 55.07	.248 .238	6.30 6.05	.439 .419	11.15 10.64	.620 .590	15.75 14.99	.428 .418	10.87 10.62	2.411 2.401	61.24 60.99	2.069 2.059	52.55 52.30	2.650 2.620	67.31 66.55	MS18277-1	50	5	M24308/23-5F	443975-5	1-443975-0	S														
						.432 .412	10.97 10.46	2.282 2.262	57.96 57.45					1.635 1.615	41.53 41.02	2.505 2.495	63.63 63.37	2.164 2.154	54.97 54.71	2.744 2.714	69.70 68.94	MS18276-1	37	4	M24308/23-4F	443975-4	443975-9	S																
																						.509 .479	12.93 12.17	.316 .306	8.03 7.77	1.857 1.847	47.17 46.91	1.516 1.506	38.51 38.25	2.103 2.073	53.42 52.65	MS18275-1	25	3	M24308/23-3F	443975-3	443975-8	S						
																																1.317 1.307	33.45 33.20	.976 .966	24.79 24.54	1.556 1.526	39.52 38.76	MS18274-1	15	2	M24308/23-2F	443975-2	443975-7	S
																																						.989 .979	25.12 24.87	.648 .638	16.46 16.21	1.228 1.198	31.19 30.43	MS18273-1
						.620 .590	15.75 14.99	.428 .418	10.87 10.62					2.411 2.401	61.24 60.99	2.069 2.059	52.55 52.30	2.650 2.620	67.31 66.55	MS18277-1	50	5	M24308/23-5F	443975-5	443975-5																			
						.432 .412	10.97 10.46	2.282 2.262	57.96 57.45					1.635 1.615	41.53 41.02	2.505 2.495	63.63 63.37	2.164 2.154	54.97 54.71	2.744 2.714	69.70 68.94	MS18276-1	37	4	M24308/23-4F	443975-4	443975-4																	
																						.509 .479	12.93 12.17	.316 .306	8.03 7.77	1.857 1.847	47.17 46.91	1.516 1.506	38.51 38.25	2.103 2.073	53.42 52.65	MS18275-1	25	3	M24308/23-3F	443975-3	443975-3							
																																1.317 1.307	33.45 33.20	.976 .966	24.79 24.54	1.556 1.526	39.52 38.76	MS18274-1	15	2	M24308/23-2F	443975-2	443975-2	
																																						.989 .979	25.12 24.87	.648 .638	16.46 16.21	1.228 1.198	31.19 30.43	MS18273-1

N	M	L	J	H	G	F	E	D	C	B	A	INSERT ARRANGEMENT	NO OF POS	SHELL SIZE	MILITARY P/N ON CONNECTOR	3	P/N ON CONNECTOR	3	PART NUMBER
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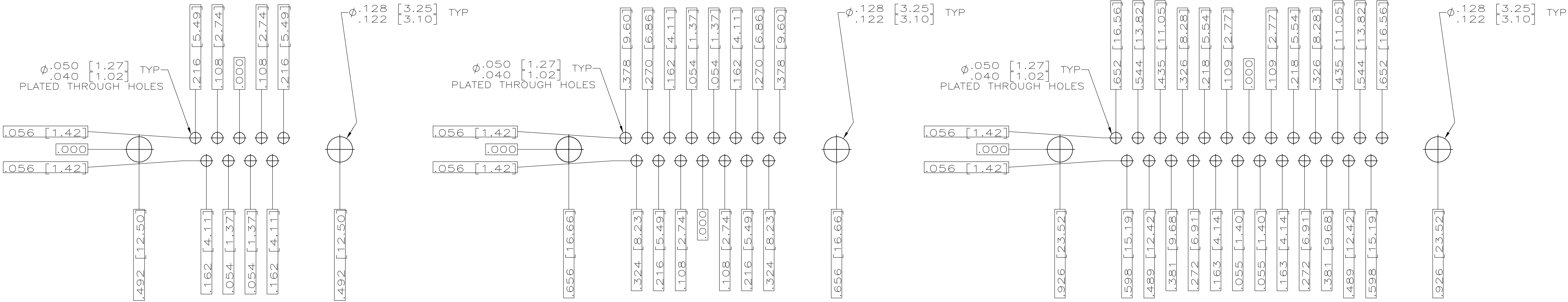
$.246 \pm .003$
 $[6.25 \pm 0.08]$

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

THIS DRAWING IS A CONTROLLED DOCUMENT.		D.W. BAKER CHK G. OVER G. OVER 15MAY98 APFD PRODUCT SPEC — APPLICATION SPEC — WEIGHT —		05MAY97 15MAY98 NAME AMPLIMITE RECEPTACLE ASSY W/ SIZE 20 POSTED PC BOARD CONTACTS SERIES 109, SIZE 1 THRU 5 SIZE A1 00779 SCALE 4:1 SHEET 1 OF 2 REV. D		 TE Connectivity	
DIMENSIONS: INCHES  MATERIAL SEE CALLOUTS		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLG ± .01 1 PLG ± .01 2 PLG ± .01 3 PLG ± .01 4 PLG ± .01 ANGLES ± 1° FINISH SEE CALLOUTS		RESTRICTED TO —			

LOC	DIST	REVISIONS				
		IF	LTR	DESCRIPTION	DATE	DWN
DF	D0	-	-	SEE SHEET 1	-	-

D



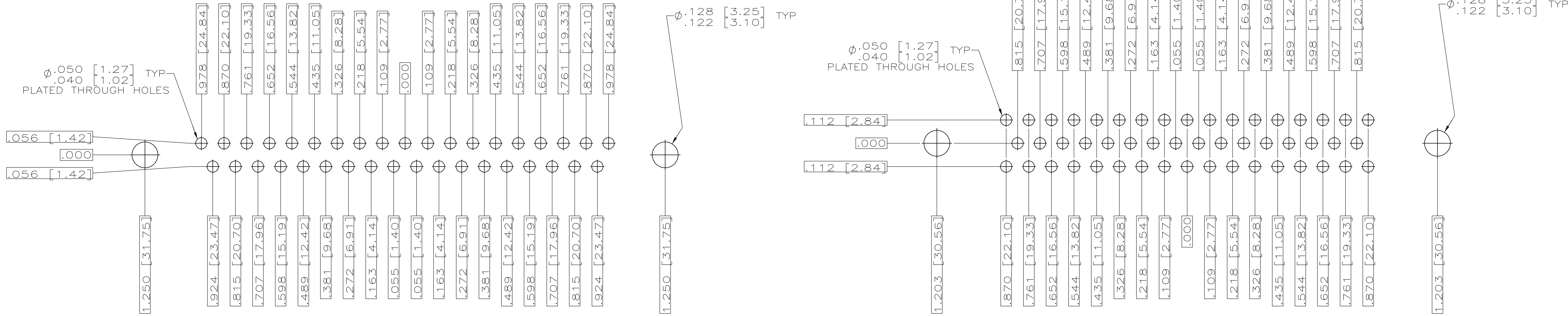
RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 1 (9 POSITION) ¹

RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 2 (15 POSITION) ¹

RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 3 (25 POSITION) ¹

C

B



RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 4 (37 POSITION) ¹

RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 5 (50 POSITION) ¹

A

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN J.A. Baker	05MAY97	 TE Connectivity	
		CHK G. OVER	15MAY98		
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± . 1 PLC ± . 2 PLC ± . 3 PLC ± . 4 PLC ± . ANGLES ± ±		NAME	
		PRODUCT SPEC MIL-C-24308		AMPLIMITE RECEPTACLE ASSY WITH SIZE 20 STRAIGHT POSTED P.C. BOARD CONTACTS, SERIES 109,	
		APPLICATION SPEC			
MATERIAL SEE CALLOUTS		FINISH SEE CALLOUTS		SIZE A1	CAGE CODE 00779
		WEIGHT —		DRAWING NO C=443975	
		CUSTOMER DRAWING		RESTRICTED TO —	
				SCALE 4:1	SHEET 2 of 2
				REV D1	

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[TE Connectivity:](#)

[M24308/23-3F](#) [M24308/23-5F](#)