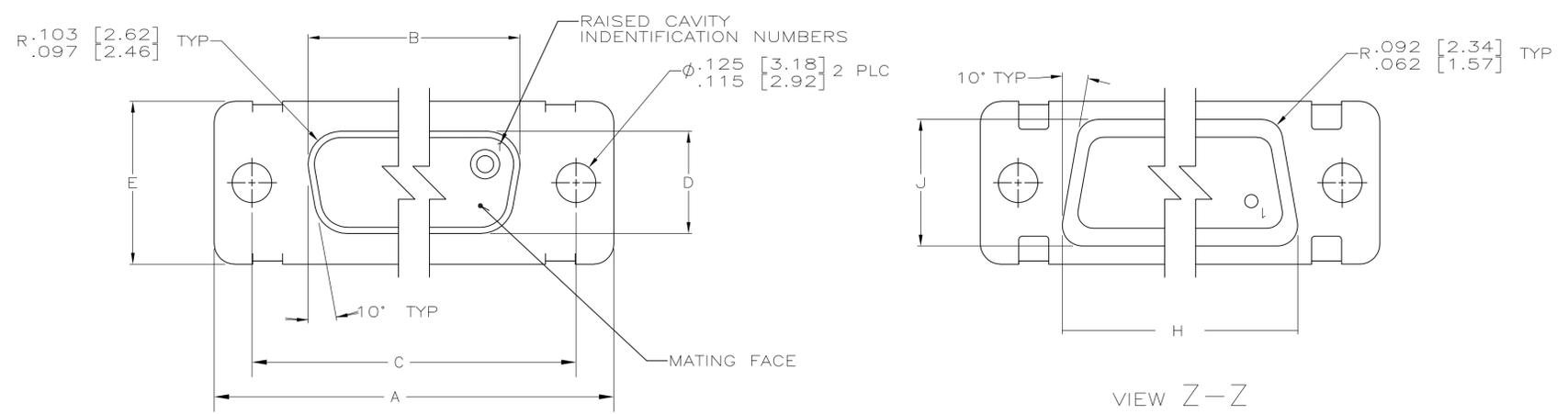
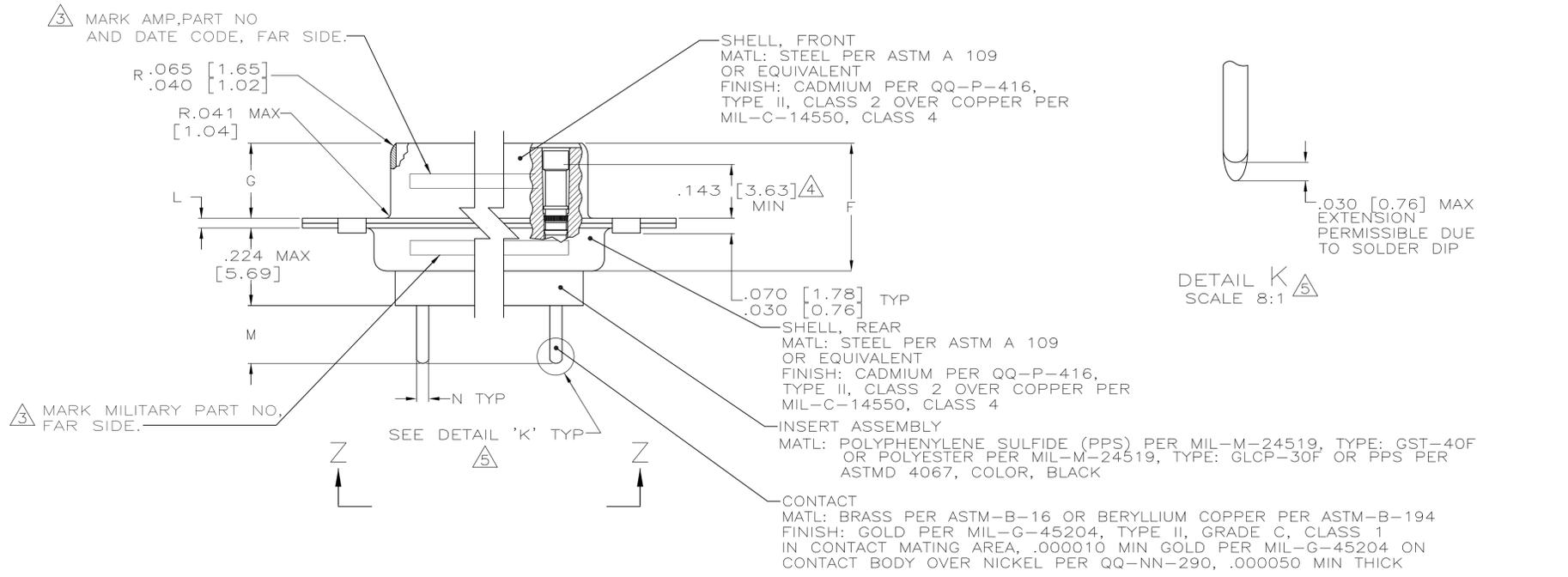


LOC		DIST		REVISIONS			
P	LTR	DESCRIPTION	DATE	DN	APVD		
D1	REVISED PER	ECO-11-005030	11MAR11	RK	HMR		

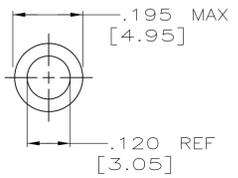


- SEE SHEET 2 FOR RECOMMENDED P.C. BOARD LAYOUT. TRUE POSITION TOLERANCE FOR P.C. BOARD LAYOUT IS .010 [0.25] AT MAX MATERIAL CONDITION. SUGGESTED BOARD THICKNESS IS .125 [3.18]
- THE CONNECTORS DESCRIBED IN THIS DOCUMENT MEET THE REQUIREMENTS OF MIL-C-24308 AND MATE WITH ANY PLUG CONNECTOR WITH SAME 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]	.208 [5.28] / .168 [4.27]	.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	M24308/23-11F	443976-5	1-443976-0
			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	M24308/23-10F	443976-4	443976-9			
			1.635 [41.53] / 1.615 [41.02]	1.857 [47.17] / 1.847 [46.91]			1.516 [38.51] / 1.506 [38.25]	2.103 [53.42] / 2.073 [52.65]	MS18275-1	25	3	M24308/23-9F	443976-3	443976-8			
			1.093 [27.76] / 1.073 [27.25]	1.317 [33.45] / 1.307 [33.20]			.976 [24.79] / .966 [24.54]	1.556 [39.52] / 1.526 [38.76]	MS18274-1	15	2	M24308/23-8F	443976-2	443976-7			
.033 [0.84] / .027 [0.69]	.208 [5.28] / .168 [4.27]	.040 [1.02] / .020 [0.51]	.749 [19.02]	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	M24308/23-11F	443976-5	443976-5
			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	M24308/23-10F	443976-4	443976-4			
			1.635 [41.53] / 1.615 [41.02]	1.857 [47.17] / 1.847 [46.91]			1.516 [38.51] / 1.506 [38.25]	2.103 [53.42] / 2.073 [52.65]	MS18275-1	25	3	M24308/23-9F	443976-3	443976-3			
			1.093 [27.76] / 1.073 [27.25]	1.317 [33.45] / 1.307 [33.20]			.976 [24.79] / .966 [24.54]	1.556 [39.52] / 1.526 [38.76]	MS18274-1	15	2	M24308/23-8F	443976-2	443976-2			
.033 [0.84] / .027 [0.69]	.208 [5.28] / .168 [4.27]	.040 [1.02] / .020 [0.51]	.749 [19.02]	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	M24308/23-11F	443976-5	443976-1
			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	M24308/23-10F	443976-4	443976-1			
			1.635 [41.53] / 1.615 [41.02]	1.857 [47.17] / 1.847 [46.91]			1.516 [38.51] / 1.506 [38.25]	2.103 [53.42] / 2.073 [52.65]	MS18275-1	25	3	M24308/23-9F	443976-3	443976-1			
			1.093 [27.76] / 1.073 [27.25]	1.317 [33.45] / 1.307 [33.20]			.976 [24.79] / .966 [24.54]	1.556 [39.52] / 1.526 [38.76]	MS18274-1	15	2	M24308/23-8F	443976-2	443976-1			



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

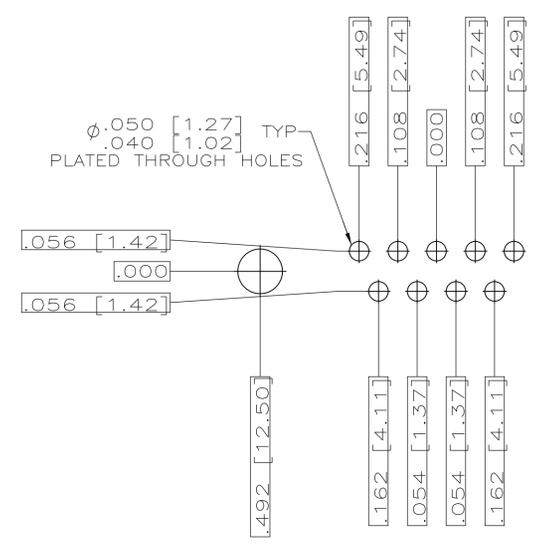
THIS DRAWING IS A CONTROLLED DOCUMENT.

DTN: J.A. BAKER, DSIMAY97
CHK: -
APVD: -
NAME: -

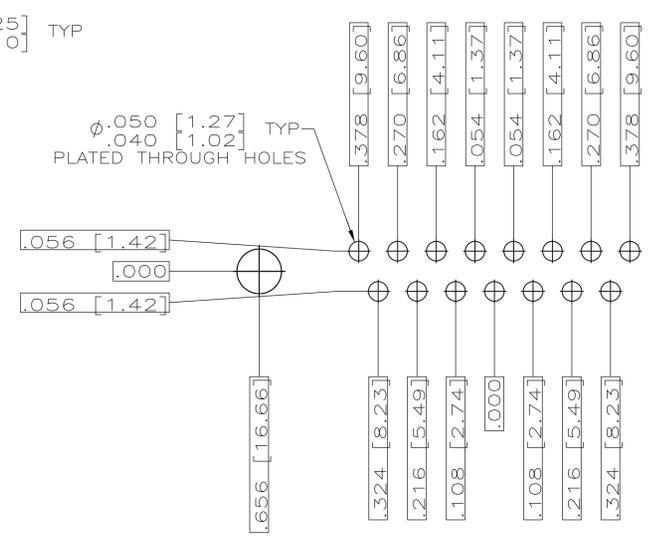
AMPLIMITE RECEPACLE ASSY
W/ SIZE 20 POSTED PC BOARD CONTACTS
SERIES 109, SHELL SIZES 1 THRU 5

SIZE: A1, CASE CODE: 00779, DRAWING NO: 443976, RESTRICTED TO: -

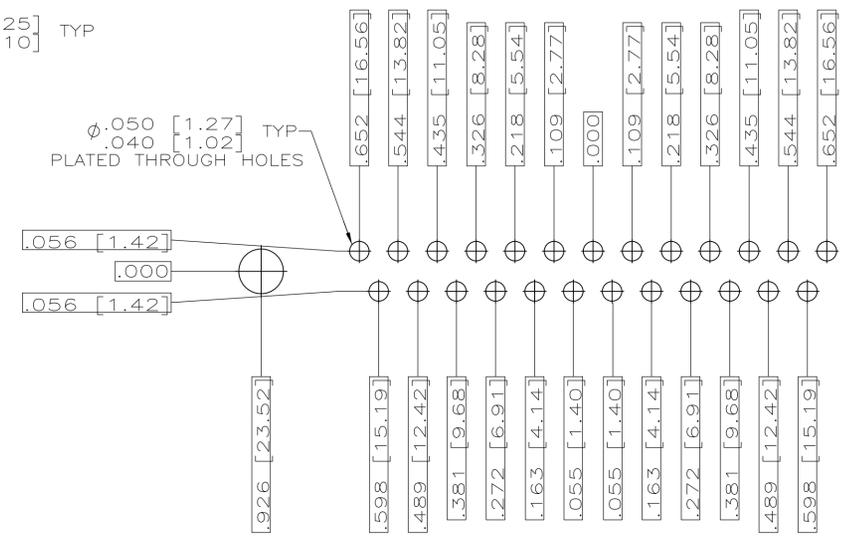
CUSTOMER DRAWING, SCALE: 4:1, SHEET: 1 OF 2, REV: D1



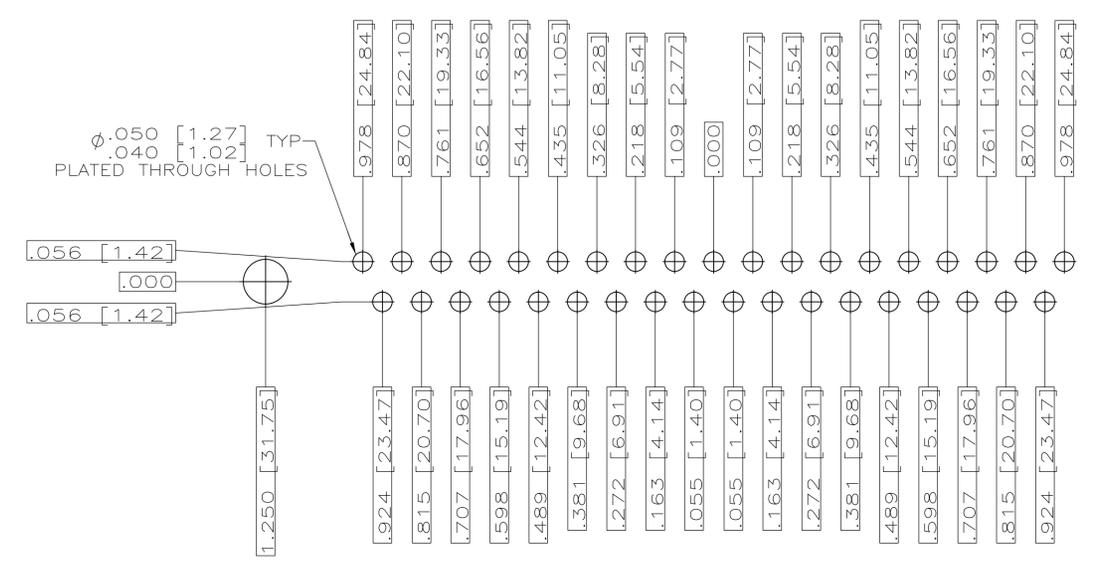
RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 1 (9 POSITION) ⚠



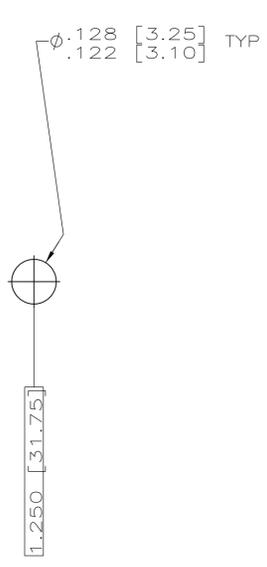
RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 2 (15 POSITION) ⚠



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



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



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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN J.A. Baker 15MAY98	05MAY97	 TE Connectivity
DIMENSIONS: INCHES		CHK G. OVER	NAME	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC		AMPLIMITE RECEPTACLE ASSY WITH SIZE 20 STRAIGHT POSTED P.C. BOARD CONTACTS, SERIES 109,
0 PLC ± .000 1 PLC ± .000 2 PLC ± .000 3 PLC ± .000 4 PLC ± .000 ALL DIMENSIONS ± .000		APPLICATION SPEC		
MATERIAL SEE CALLOUTS		WEIGHT		SIZE A1 DATE CODE 00779 DRAWING NO. 443976 RESTRICTED TO CUSTOMER DRAWING
SCALE 4:1		SHEET 2 OF 2		REV D1

Mouser Electronics

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[TE Connectivity:](#)

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