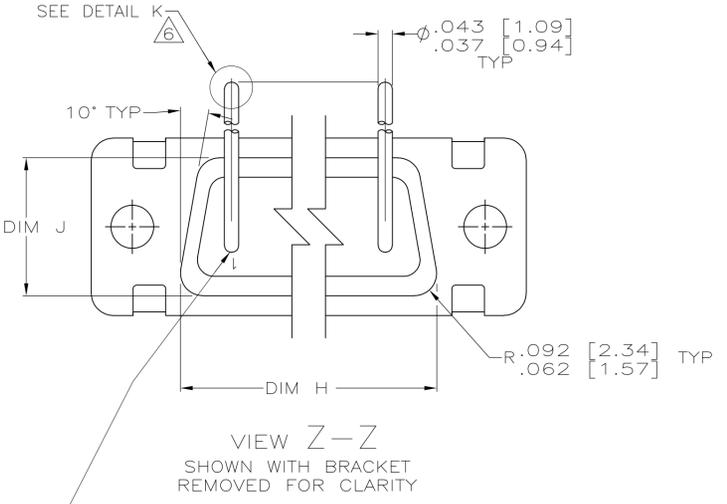
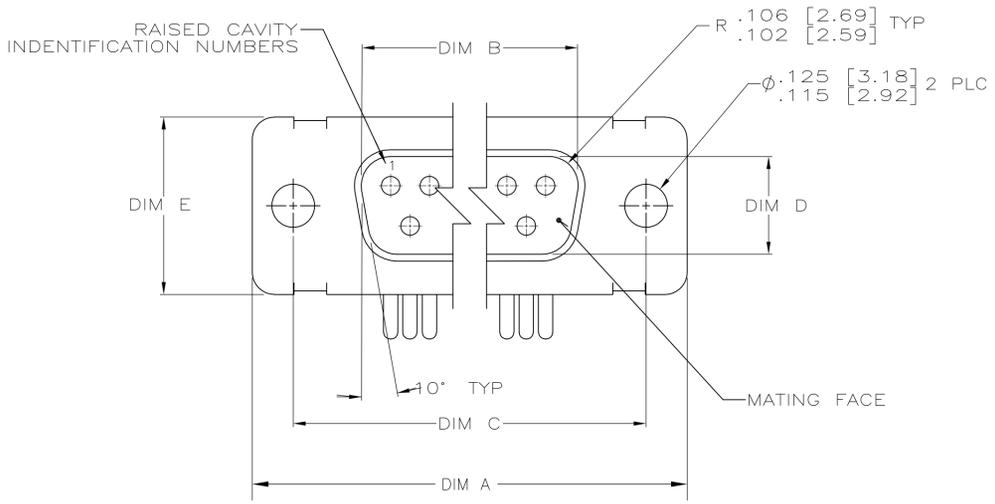


LOC	DIST	REV	DESCRIPTION	DATE	BY	APPV
C	REV PER ECO-07-017102			21SEP07	PY	BW



VIEW Z-Z  
SHOWN WITH BRACKET REMOVED FOR CLARITY

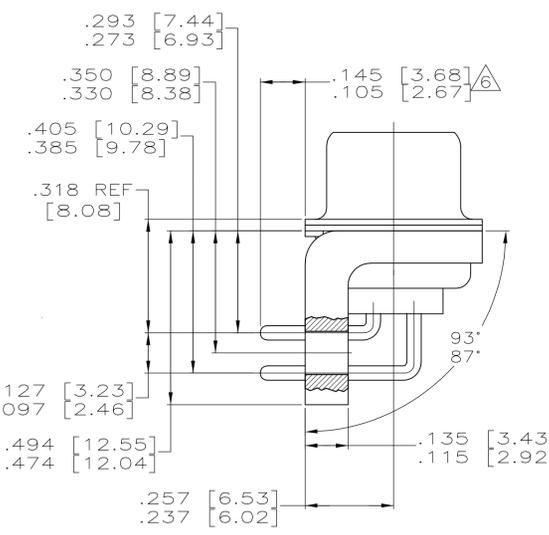
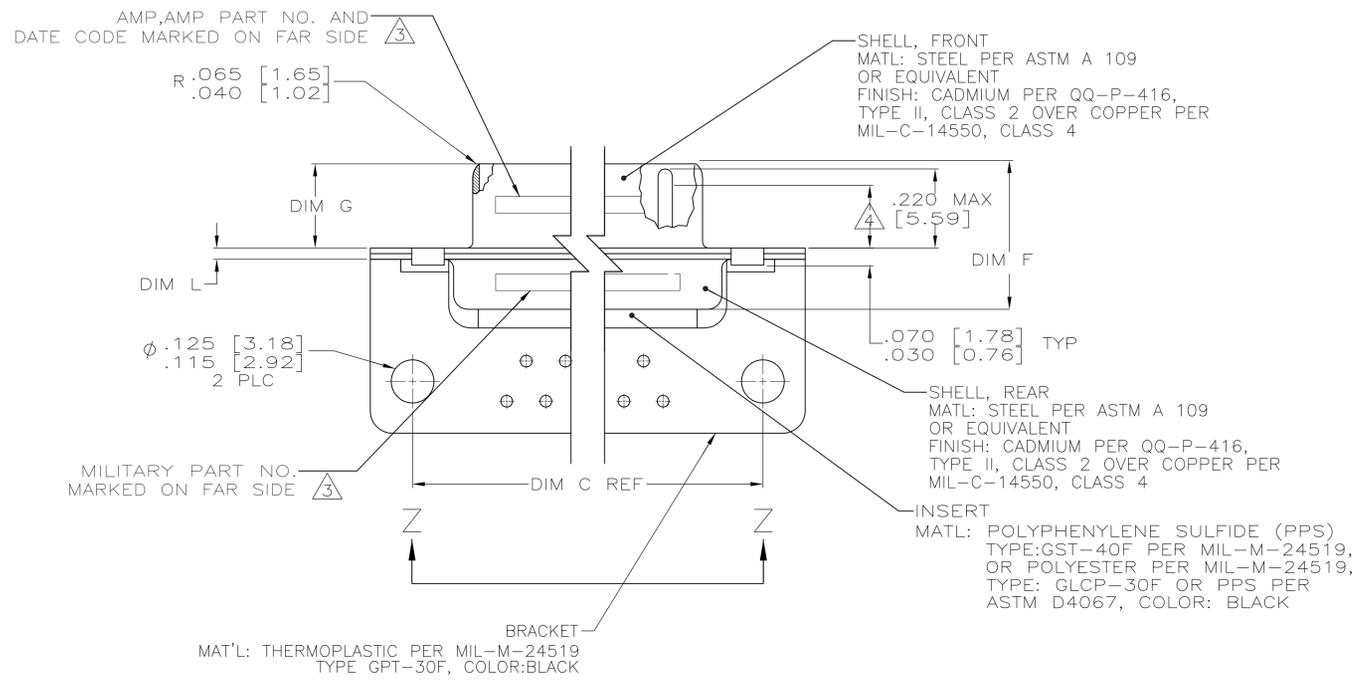
CONTACT (QTY = NO. OF POSN)  
MATL: BRASS PER ASTM-B-16, OR BERYLLIUM COPPER PER ASTM-B-194  
FINISH: GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1 IN CONTACT MATING AREA, .000010 [0.0003] MIN THK GOLD PER MIL-G-45204 OVER .000050 [0.0013] MIN THK NICKEL PER QQ-N-290 ON CONTACT BODY

- 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 .062 [1.57]
- 2. THE CONNECTORS DESCRIBED IN THIS DOCUMENT MEET THE REQUIREMENTS OF MIL-C-24308 AND MATE WITH ANY RECEPTACLE CONNECTOR WITH SAME INSERT ARRANGEMENT.
- 3. MARKED 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. AMP PART NUMBER ON REAR SHELL, NEAR SIDE.

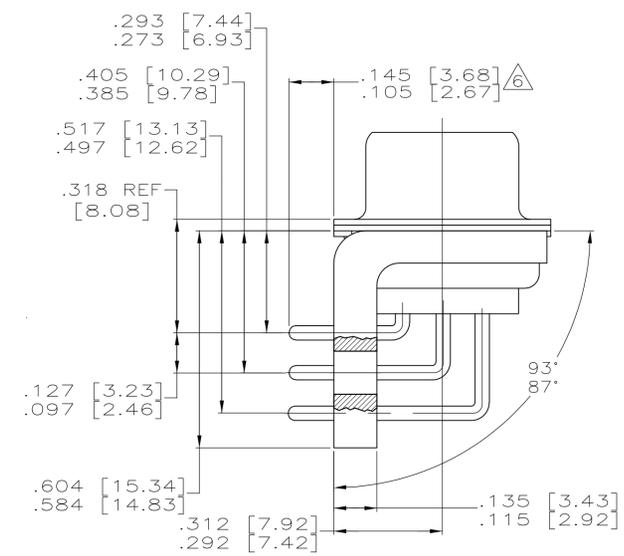
IF THE FRONT SHELL IS TOO SMALL FOR "AMP", AMP PART NUMBER AND DATE CODE, MARKING SHALL BE SPLIT AS FOLLOWS:

- A. AMP 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. REQUIREMENT FOR FULL PIN DIAMETER EXTENSION:
  - .159 [4.04] MIN, SHELL SIZES 1 AND 2.
  - .150 [3.81] MIN, SHELL SIZES 3 AND 4.
- 5. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100.
- 6. SOLDER DIPPED PER MIL-STD-2000 COMPOSITION Sn63 CONFORMING TO QQ-S-571 IN THE ENTIRE AREA OF DIMENSION SHOWN. 1218442-6 THRU -10 ONLY.



SHELL SIZES 1 THRU 4 CONTACT CONFIGURATION



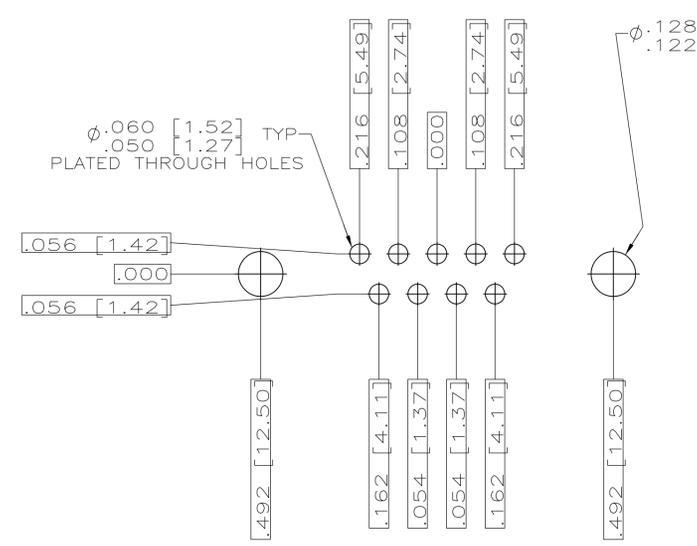
SHELL SIZE 5 CONTACT CONFIGURATION

.049 [1.24]	.544 [13.82]	2.188 [55.58]	.236 [5.99]	.436 [11.07]	.620 [15.75]	.446 [11.33]	2.411 [61.24]	2.084 [52.55]	2.650 [67.31]	MS18277-1	50	5	M24308/24-41F	1218442-5	1-1218442-0
.029 [0.74]	.524 [13.31]	2.168 [55.07]	.224 [5.69]	.416 [10.57]	.590 [14.99]	.436 [11.07]	2.401 [60.99]	2.074 [52.30]	2.620 [66.55]	MS18276-1	37	4	M24308/24-40F	1218442-4	1218442-9
.049 [1.24]	.432 [10.97]	2.282 [57.96]	.236 [5.99]	.436 [11.07]	.509 [12.93]	.334 [8.48]	2.505 [63.63]	2.187 [54.97]	2.744 [69.70]	MS18275-1	25	3	M24308/24-39F	1218442-3	1218442-8
.029 [0.74]	.412 [10.46]	2.262 [57.45]	.224 [5.69]	.416 [10.57]	.479 [12.17]	.324 [8.23]	2.495 [63.37]	2.177 [54.71]	2.714 [68.94]	MS18274-1	15	2	M24308/24-38F	1218442-2	1218442-7
.049 [1.24]	.432 [10.97]	1.635 [41.53]	.236 [5.99]	.436 [11.07]	.509 [12.93]	.334 [8.48]	1.857 [47.17]	1.539 [38.51]	2.103 [53.42]	MS18273-1	9	1	M24308/24-37F	1218442-1	1218442-6
.029 [0.74]	.412 [10.46]	1.615 [41.02]	.224 [5.69]	.416 [10.57]	.479 [12.17]	.324 [8.23]	1.847 [46.91]	1.529 [38.25]	2.073 [52.65]	MS18277-1	50	5	M24308/24-41F	1218442-5	1218442-5
.049 [1.24]	.432 [10.97]	2.282 [57.96]	.236 [5.99]	.436 [11.07]	.509 [12.93]	.334 [8.48]	2.505 [63.63]	2.187 [54.97]	2.744 [69.70]	MS18276-1	37	4	M24308/24-40F	1218442-4	1218442-4
.029 [0.74]	.412 [10.46]	2.262 [57.45]	.224 [5.69]	.416 [10.57]	.479 [12.17]	.324 [8.23]	2.495 [63.37]	2.177 [54.71]	2.714 [68.94]	MS18275-1	25	3	M24308/24-39F	1218442-3	1218442-3
.049 [1.24]	.432 [10.97]	1.635 [41.53]	.236 [5.99]	.436 [11.07]	.509 [12.93]	.334 [8.48]	1.857 [47.17]	1.539 [38.51]	2.103 [53.42]	MS18274-1	15	2	M24308/24-38F	1218442-2	1218442-2
.029 [0.74]	.412 [10.46]	1.615 [41.02]	.224 [5.69]	.416 [10.57]	.479 [12.17]	.324 [8.23]	1.847 [46.91]	1.529 [38.25]	2.073 [52.65]	MS18273-1	9	1	M24308/24-37F	1218442-1	1218442-1
.049 [1.24]	.544 [13.82]	2.188 [55.58]	.236 [5.99]	.436 [11.07]	.620 [15.75]	.446 [11.33]	2.411 [61.24]	2.084 [52.55]	2.650 [67.31]	MS18277-1	50	5	M24308/24-41F	1218442-5	1218442-5
.029 [0.74]	.524 [13.31]	2.168 [55.07]	.224 [5.69]	.416 [10.57]	.590 [14.99]	.436 [11.07]	2.401 [60.99]	2.074 [52.30]	2.620 [66.55]	MS18276-1	37	4	M24308/24-40F	1218442-4	1218442-4
.049 [1.24]	.432 [10.97]	2.282 [57.96]	.236 [5.99]	.436 [11.07]	.509 [12.93]	.334 [8.48]	2.505 [63.63]	2.187 [54.97]	2.744 [69.70]	MS18275-1	25	3	M24308/24-39F	1218442-3	1218442-3
.029 [0.74]	.412 [10.46]	2.262 [57.45]	.224 [5.69]	.416 [10.57]	.479 [12.17]	.324 [8.23]	2.495 [63.37]	2.177 [54.71]	2.714 [68.94]	MS18274-1	15	2	M24308/24-38F	1218442-2	1218442-2
.049 [1.24]	.432 [10.97]	1.635 [41.53]	.236 [5.99]	.436 [11.07]	.509 [12.93]	.334 [8.48]	1.857 [47.17]	1.539 [38.51]	2.103 [53.42]	MS18273-1	9	1	M24308/24-37F	1218442-1	1218442-1
.029 [0.74]	.412 [10.46]	1.615 [41.02]	.224 [5.69]	.416 [10.57]	.479 [12.17]	.324 [8.23]	1.847 [46.91]	1.529 [38.25]	2.073 [52.65]	MS18277-1	50	5	M24308/24-41F	1218442-5	1218442-5
.049 [1.24]	.432 [10.97]	2.282 [57.96]	.236 [5.99]	.436 [11.07]	.509 [12.93]	.334 [8.48]	2.505 [63.63]	2.187 [54.97]	2.744 [69.70]	MS18276-1	37	4	M24308/24-40F	1218442-4	1218442-4
.029 [0.74]	.412 [10.46]	2.262 [57.45]	.224 [5.69]	.416 [10.57]	.479 [12.17]	.324 [8.23]	2.495 [63.37]	2.177 [54.71]	2.714 [68.94]	MS18275-1	25	3	M24308/24-39F	1218442-3	1218442-3
.049 [1.24]	.432 [10.97]	1.635 [41.53]	.236 [5.99]	.436 [11.07]	.509 [12.93]	.334 [8.48]	1.857 [47.17]	1.539 [38.51]	2.103 [53.42]	MS18274-1	15	2	M24308/24-38F	1218442-2	1218442-2
.029 [0.74]	.412 [10.46]	1.615 [41.02]	.224 [5.69]	.416 [10.57]	.479 [12.17]	.324 [8.23]	1.847 [46.91]	1.529 [38.25]	2.073 [52.65]	MS18273-1	9	1	M24308/24-37F	1218442-1	1218442-1

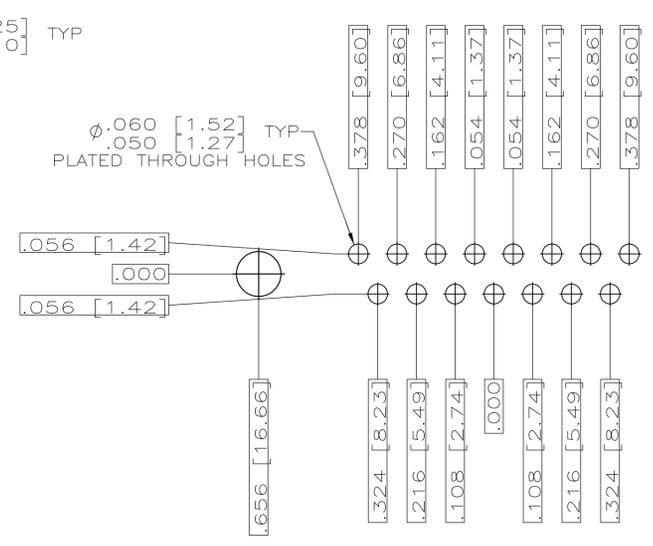
DIM L	DIM J	DIM H	DIM G	DIM F	DIM E	DIM D	DIM C	DIM B	DIM A	INSERT ARRANGEMENT	NO OF POS	SHELL SIZE	MILITARY P/N ON CONNECTOR	AMP P/N MARKED ON CONNECTOR	AMP PART NO.

DETAIL K  
SCALE 8:1  
FOR 1218442-6 THRU -10 ONLY

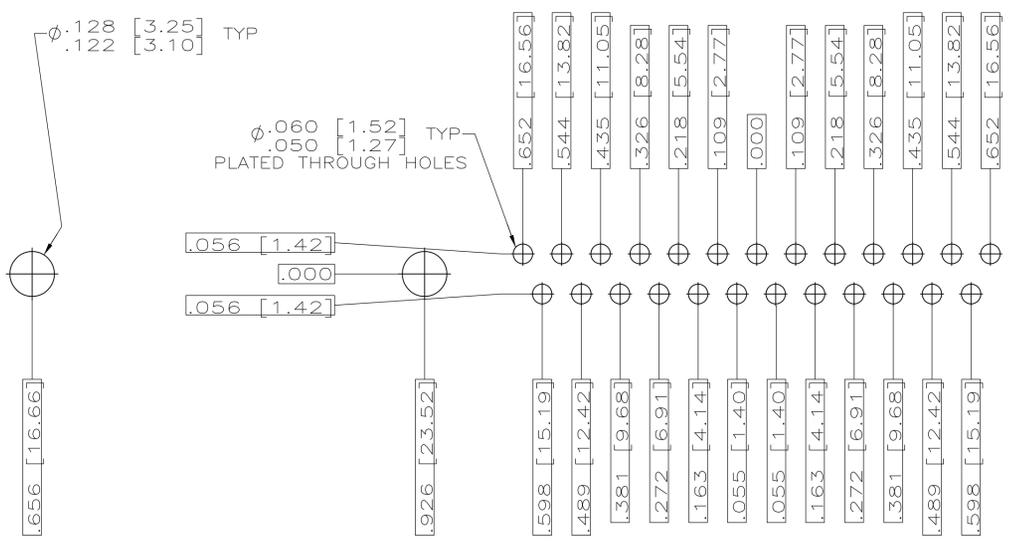
LOC		DIST		REVISIONS			
DF	DO	P	LTR	DESCRIPTION	DATE	DN	APVD
-	-	-	-	SEE SHEET 1	-	-	-



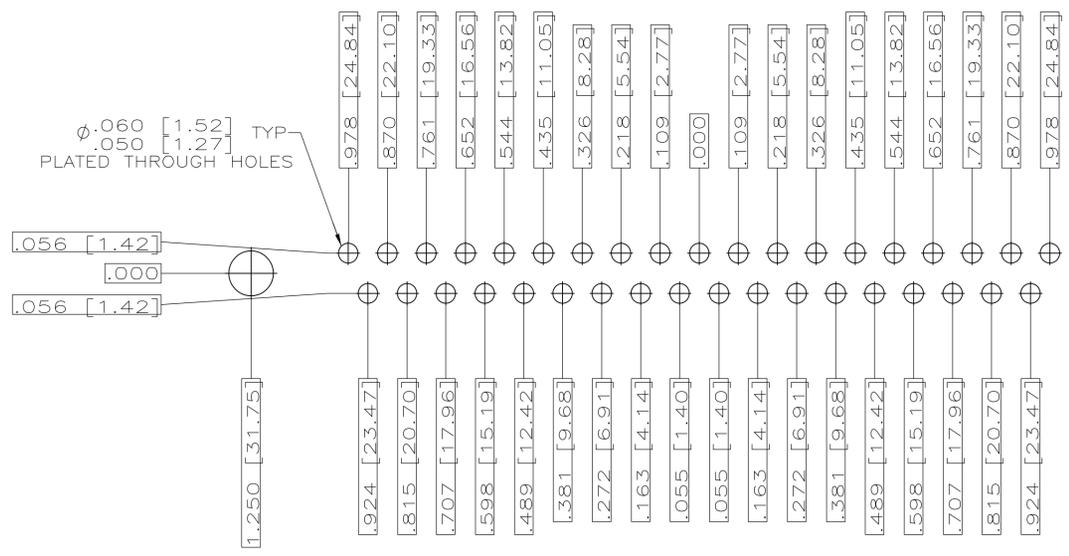
RECOMMENDED P.C. BOARD LAYOUT  
 SHELL SIZE 1 (9 POSITION)  $\Delta$



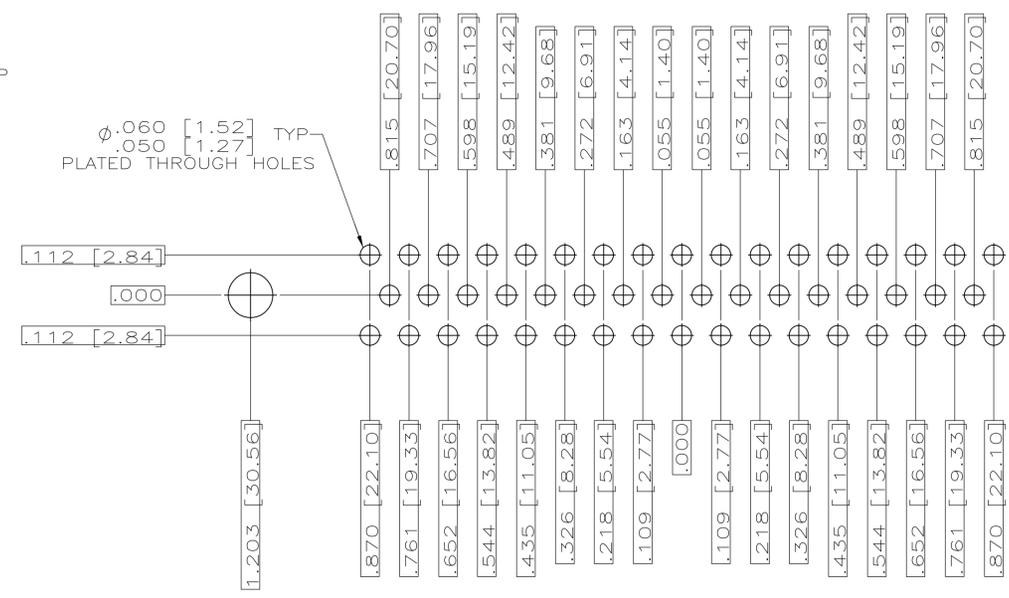
RECOMMENDED P.C. BOARD LAYOUT  
 SHELL SIZE 2 (15 POSITION)  $\Delta$



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



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



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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DIN	C.C.THOMAS	12-6-99	Tyco Electronics Corporation Harrisburg, PA 17105-3608
DIMENSIONS: INCHES		CHK	CHAD BAKER	12-15-99	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD	CHAD BAKER	12-15-99	NAME PLUG ASSY,AMPLIMITE RIGHT ANGLE,SERIES 109,SIZE 1 THRU 5
$\phi$ .0000 .0005 .0010 .0015 .0020 .0025 .0030 .0035 .0040 .0045 .0050 .0055 .0060 .0065 .0070 .0075 .0080 .0085 .0090 .0095 .0100 .0105 .0110 .0115 .0120 .0125 .0130 .0135 .0140 .0145 .0150 .0155 .0160 .0165 .0170 .0175 .0180 .0185 .0190 .0195 .0200 .0205 .0210 .0215 .0220 .0225 .0230 .0235 .0240 .0245 .0250 .0255 .0260 .0265 .0270 .0275 .0280 .0285 .0290 .0295 .0300 .0305 .0310 .0315 .0320 .0325 .0330 .0335 .0340 .0345 .0350 .0355 .0360 .0365 .0370 .0375 .0380 .0385 .0390 .0395 .0400 .0405 .0410 .0415 .0420 .0425 .0430 .0435 .0440 .0445 .0450 .0455 .0460 .0465 .0470 .0475 .0480 .0485 .0490 .0495 .0500 .0505 .0510 .0515 .0520 .0525 .0530 .0535 .0540 .0545 .0550 .0555 .0560 .0565 .0570 .0575 .0580 .0585 .0590 .0595 .0600 .0605 .0610 .0615 .0620 .0625 .0630 .0635 .0640 .0645 .0650 .0655 .0660 .0665 .0670 .0675 .0680 .0685 .0690 .0695 .0700 .0705 .0710 .0715 .0720 .0725 .0730 .0735 .0740 .0745 .0750 .0755 .0760 .0765 .0770 .0775 .0780 .0785 .0790 .0795 .0800 .0805 .0810 .0815 .0820 .0825 .0830 .0835 .0840 .0845 .0850 .0855 .0860 .0865 .0870 .0875 .0880 .0885 .0890 .0895 .0900 .0905 .0910 .0915 .0920 .0925 .0930 .0935 .0940 .0945 .0950 .0955 .0960 .0965 .0970 .0975 .0980 .0985 .0990 .0995 .1000 .1005 .1010 .1015 .1020 .1025 .1030 .1035 .1040 .1045 .1050 .1055 .1060 .1065 .1070 .1075 .1080 .1085 .1090 .1095 .1100 .1105 .1110 .1115 .1120 .1125 .1130 .1135 .1140 .1145 .1150 .1155 .1160 .1165 .1170 .1175 .1180 .1185 .1190 .1195 .1200 .1205 .1210 .1215 .1220 .1225 .1230 .1235 .1240 .1245 .1250 .1255 .1260 .1265 .1270 .1275 .1280 .1285 .1290 .1295 .1300 .1305 .1310 .1315 .1320 .1325 .1330 .1335 .1340 .1345 .1350 .1355 .1360 .1365 .1370 .1375 .1380 .1385 .1390 .1395 .1400 .1405 .1410 .1415 .1420 .1425 .1430 .1435 .1440 .1445 .1450 .1455 .1460 .1465 .1470 .1475 .1480 .1485 .1490 .1495 .1500 .1505 .1510 .1515 .1520 .1525 .1530 .1535 .1540 .1545 .1550 .1555 .1560 .1565 .1570 .1575 .1580 .1585 .1590 .1595 .1600 .1605 .1610 .1615 .1620 .1625 .1630 .1635 .1640 .1645 .1650 .1655 .1660 .1665 .1670 .1675 .1680 .1685 .1690 .1695 .1700 .1705 .1710 .1715 .1720 .1725 .1730 .1735 .1740 .1745 .1750 .1755 .1760 .1765 .1770 .1775 .1780 .1785 .1790 .1795 .1800 .1805 .1810 .1815 .1820 .1825 .1830 .1835 .1840 .1845 .1850 .1855 .1860 .1865 .1870 .1875 .1880 .1885 .1890 .1895 .1900 .1905 .1910 .1915 .1920 .1925 .1930 .1935 .1940 .1945 .1950 .1955 .1960 .1965 .1970 .1975 .1980 .1985 .1990 .1995 .2000 .2005 .2010 .2015 .2020 .2025 .2030 .2035 .2040 .2045 .2050 .2055 .2060 .2065 .2070 .2075 .2080 .2085 .2090 .2095 .2100 .2105 .2110 .2115 .2120 .2125 .2130 .2135 .2140 .2145 .2150 .2155 .2160 .2165 .2170 .2175 .2180 .2185 .2190 .2195 .2200 .2205 .2210 .2215 .2220 .2225 .2230 .2235 .2240 .2245 .2250 .2255 .2260 .2265 .2270 .2275 .2280 .2285 .2290 .2295 .2300 .2305 .2310 .2315 .2320 .2325 .2330 .2335 .2340 .2345 .2350 .2355 .2360 .2365 .2370 .2375 .2380 .2385 .2390 .2395 .2400 .2405 .2410 .2415 .2420 .2425 .2430 .2435 .2440 .2445 .2450 .2455 .2460 .2465 .2470 .2475 .2480 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.3315 .3320 .3325 .3330 .3335 .3340 .3345 .3350 .3355 .3360 .3365 .3370 .3375 .3380 .3385 .3390 .3395 .3400 .3405 .3410 .3415 .3420 .3425 .3430 .3435 .3440 .3445 .3450 .3455 .3460 .3465 .3470 .3475 .3480 .3485 .3490 .3495 .3500 .3505 .3510 .3515 .3520 .3525 .3530 .3535 .3540 .3545 .3550 .3555 .3560 .3565 .3570 .3575 .3580 .3585 .3590 .3595 .3600 .3605 .3610 .3615 .3620 .3625 .3630 .3635 .3640 .3645 .3650 .3655 .3660 .3665 .3670 .3675 .3680 .3685 .3690 .3695 .3700 .3705 .3710 .3715 .3720 .3725 .3730 .3735 .3740 .3745 .3750 .3755 .3760 .3765 .3770 .3775 .3780 .3785 .3790 .3795 .3800 .3805 .3810 .3815 .3820 .3825 .3830 .3835 .3840 .3845 .3850 .3855 .3860 .3865 .3870 .3875 .3880 .3885 .3890 .3895 .3900 .3905 .3910 .3915 .3920 .3925 .3930 .3935 .3940 .3945 .3950 .3955 .3960 .3965 .3970 .3975 .3980 .3985 .3990 .3995 .4000 .4005 .4010 .4015 .4020 .4025 .4030 .4035 .4040 .4045 .4050 .4055 .4060 .4065 .4070 .4075 .4080 .4085 .4090 .4095 .4100 .4105 .4110 .4115 .4120 .4125 .4130 .4135 .4140 .4145 .4150 .4155 .4160 .4165 .4170 .4175 .4180 .4185 .4190 .4195 .4200 .4205 .4210 .4215 .4220 .4225 .4230 .4235 .4240 .4245 .4250 .4255 .4260 .4265 .4270 .4275 .4280 .4285 .4290 .4295 .4300 .4305 .4310 .4315 .4320 .4325 .4330 .4335 .4340 .4345 .4350 .4355 .4360 .4365 .4370 .4375 .4380 .4385 .4390 .4395 .4400 .4405 .4410 .4415 .4420 .4425 .4430 .4435 .4440 .4445 .4450 .4455 .4460 .4465 .4470 .4475 .4480 .4485 .4490 .4495 .4500 .4505 .4510 .4515 .4520 .4525 .45					

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