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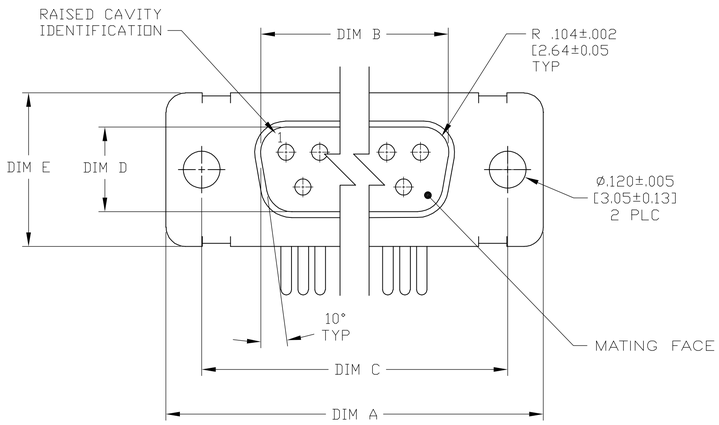
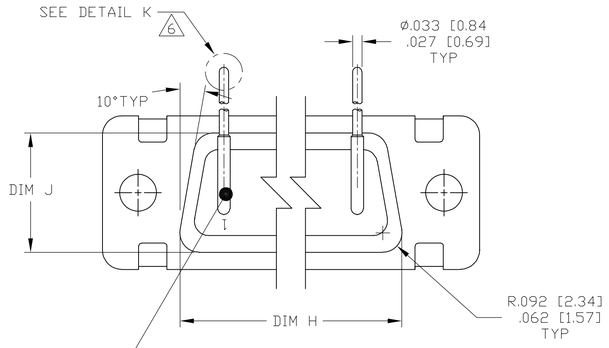
LOC	DIST
DF	DO

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	REV PER EC 0H14-0282-05	16SEP05	VF	CT

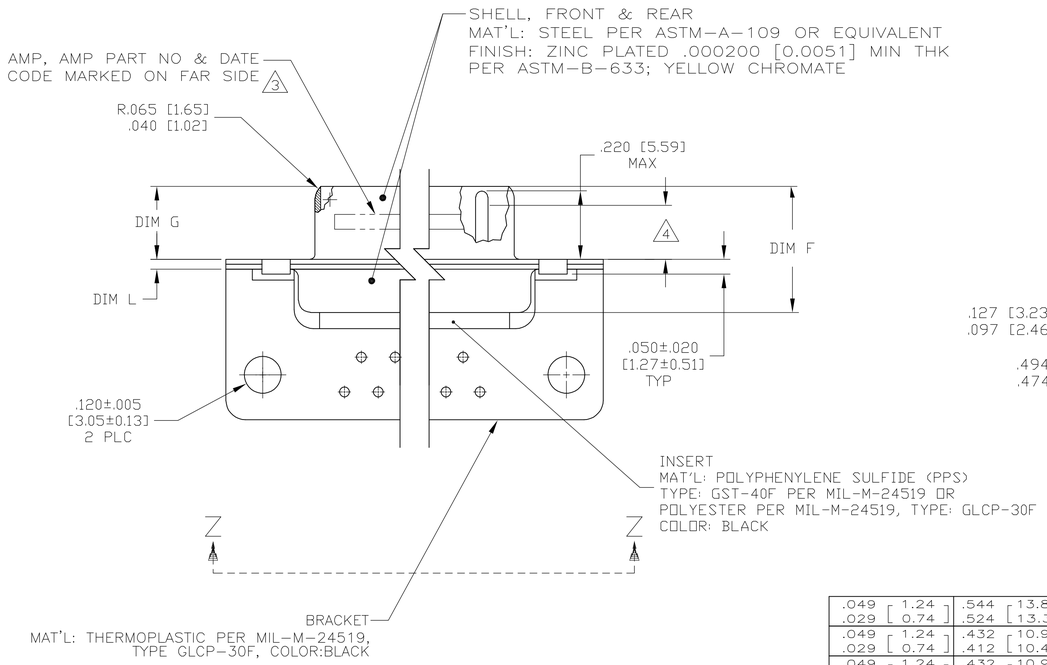


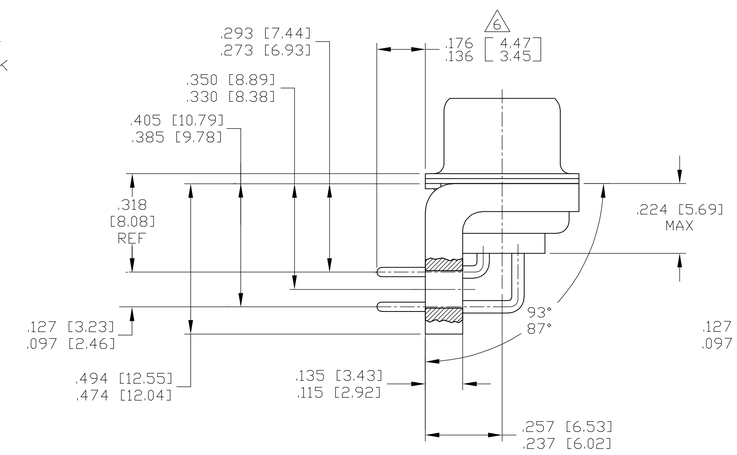


VIEW Z–Z
SHOWN WITH BRACKET REMOVED FOR CLARITY

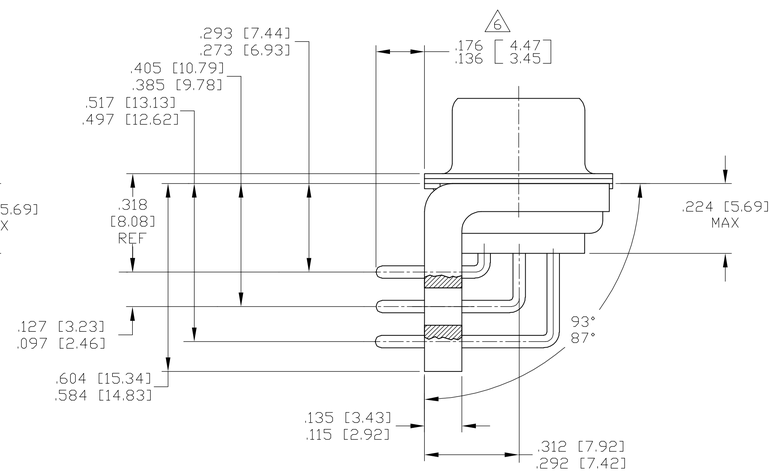
CONTACT (QTY = NO. OF POSN)
MATL: BRASS PER ASTM-B-16, OR BERYLLIUM COPPER PER ASTM-B-194
FINISH: GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS I IN CONTACT MATING AREA, .000010 [0.0003] MIN THK GOLD PER MIL-G-45204 OVER .000050 [0.0013] MIN THK NICKEL PER QQ-N-290 ON CONTACT BODY

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 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, FAR SIDE.
   B. "AMP" AND DATE CODE ON FRONT 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, 4 AND 5.
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. 1218833-6 THRU -10 ONLY.



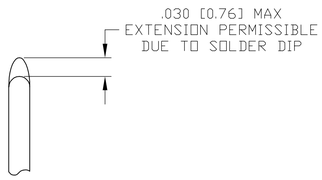


SHELL SIZES 1 THRU 4 CONTACT CONFIGURATION



SHELL SIZE 5 CONTACT CONFIGURATION

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	AMP PART NO.
.049 [1.24] .029 [0.74]	.544 [13.82] .524 [13.31]	2.188 [55.58] 2.168 [55.07]	.236 [5.99] .224 [5.69]	.436 [11.07] .416 [10.57]	.620 [15.75] .590 [14.99]	.446 [11.33] .436 [11.07]	2.411 [61.24] 2.401 [60.99]	2.084 [52.55] 2.074 [52.30]	2.650 [67.31] 2.620 [66.55]	MS18277-1	50	5	1-1218833-0 6
.049 [1.24] .029 [0.74]	.432 [10.97] .412 [10.46]	2.282 [57.96] 2.262 [57.45]	.236 [5.99] .224 [5.69]	.436 [11.07] .416 [10.57]	.509 [12.93] .479 [12.17]	.334 [8.48] .324 [8.23]	2.505 [63.63] 2.495 [63.37]	2.187 [54.97] 2.177 [54.71]	2.744 [69.70] 2.714 [68.94]	MS18276-1	37	4	1218833-9 6
.049 [1.24] .029 [0.74]	.432 [10.97] .412 [10.46]	1.635 [41.53] 1.615 [41.02]	.236 [5.99] .224 [5.69]	.436 [11.07] .416 [10.57]	.509 [12.93] .479 [12.17]	.334 [8.48] .324 [8.23]	1.857 [47.17] 1.847 [46.91]	1.539 [38.51] 1.529 [38.25]	2.103 [53.42] 2.073 [52.65]	MS18275-1	25	3	1218833-8 6
.040 [1.02] .020 [0.51]	.432 [10.97] .412 [10.46]	1.093 [27.76] 1.073 [27.25]	.238 [6.05] .229 [5.82]	.432 [10.97] .412 [10.46]	.509 [12.93] .479 [12.17]	.334 [8.48] .324 [8.23]	1.317 [33.45] 1.307 [33.20]	.999 [24.79] .989 [24.54]	1.556 [39.52] 1.526 [38.76]	MS18274-1	15	2	1218833-7 6
.040 [1.02] .020 [0.51]	.432 [10.97] .412 [10.46]	.769 [19.53] .749 [19.02]	.238 [6.05] .229 [5.82]	.432 [10.97] .412 [10.46]	.509 [12.93] .479 [12.17]	.334 [8.48] .324 [8.23]	.989 [25.12] .979 [24.87]	.671 [16.46] .661 [16.21]	1.228 [31.19] 1.198 [30.43]	MS18273-1	9	1	1218833-6 6
.049 [1.24] .029 [0.74]	.544 [13.82] .524 [13.31]	2.188 [55.58] 2.168 [55.07]	.236 [5.99] .224 [5.69]	.436 [11.07] .416 [10.57]	.620 [15.75] .590 [14.99]	.446 [11.33] .436 [11.07]	2.411 [61.24] 2.401 [60.99]	2.084 [52.55] 2.074 [52.30]	2.650 [67.31] 2.620 [66.55]	MS18277-1	50	5	1218833-5
.049 [1.24] .029 [0.74]	.432 [10.97] .412 [10.46]	2.282 [57.96] 2.262 [57.45]	.236 [5.99] .224 [5.69]	.436 [11.07] .416 [10.57]	.509 [12.93] .479 [12.17]	.334 [8.48] .324 [8.23]	2.505 [63.63] 2.495 [63.37]	2.187 [54.97] 2.177 [54.71]	2.744 [69.70] 2.714 [68.94]	MS18276-1	37	4	1218833-4
.049 [1.24] .029 [0.74]	.432 [10.97] .412 [10.46]	1.635 [41.53] 1.615 [41.02]	.236 [5.99] .224 [5.69]	.436 [11.07] .416 [10.57]	.509 [12.93] .479 [12.17]	.334 [8.48] .324 [8.23]	1.857 [47.17] 1.847 [46.91]	1.539 [38.51] 1.529 [38.25]	2.103 [53.42] 2.073 [52.65]	MS18275-1	25	3	1218833-3
.040 [1.02] .020 [0.51]	.432 [10.97] .412 [10.46]	1.093 [27.76] 1.073 [27.25]	.238 [6.05] .229 [5.82]	.432 [10.97] .412 [10.46]	.509 [12.93] .479 [12.17]	.334 [8.48] .324 [8.23]	1.317 [33.45] 1.307 [33.20]	.999 [24.79] .989 [24.54]	1.556 [39.52] 1.526 [38.76]	MS18274-1	15	2	1218833-2
.040 [1.02] .020 [0.51]	.432 [10.97] .412 [10.46]	.769 [19.53] .749 [19.02]	.238 [6.05] .229 [5.82]	.432 [10.97] .412 [10.46]	.509 [12.93] .479 [12.17]	.334 [8.48] .324 [8.23]	.989 [25.12] .979 [24.87]	.671 [16.46] .661 [16.21]	1.228 [31.19] 1.198 [30.43]	MS18273-1	9	1	1218833-1



DETAIL K 6
SCALE 8:1
FOR 1218833-6 THRU -10 ONLY

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES [mm]

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± –
2 PLC ± –
3 PLC ± .005 [0.13]
4 PLC ± –
ANGLES ± –

MATERIAL SEE CALLOUTS
FINISH SEE CALLOUTS

DWN C.C.THOMAS 1-5-01
CHK CHAD BAKER 1-18-01
APVD CHAD BAKER 1-18-01
PRODUCT SPEC —
APPLICATION SPEC —
WEIGHT —

AMP — Tyco Electronics Corporation, Harrisburg, PA 17105

NAME: PLUG ASSY,AMPLIMITE,RIGHT ANGLE, SERIES 109,SIZE 1 THRU 5

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-1218833	—

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 2 | REV A

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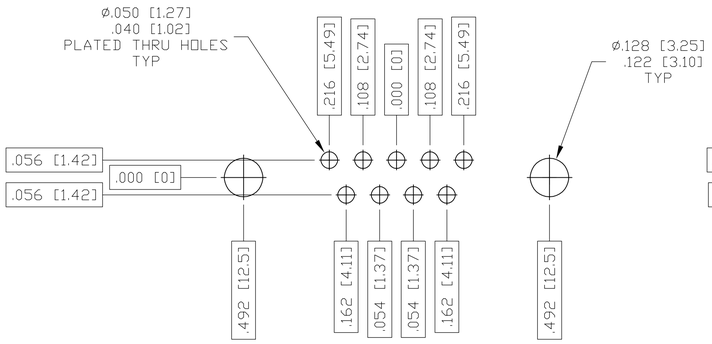
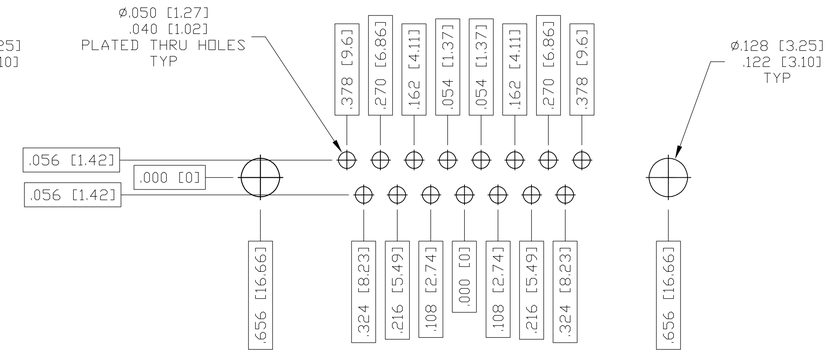
LOC	DIST
DF	DO

REVISIONS

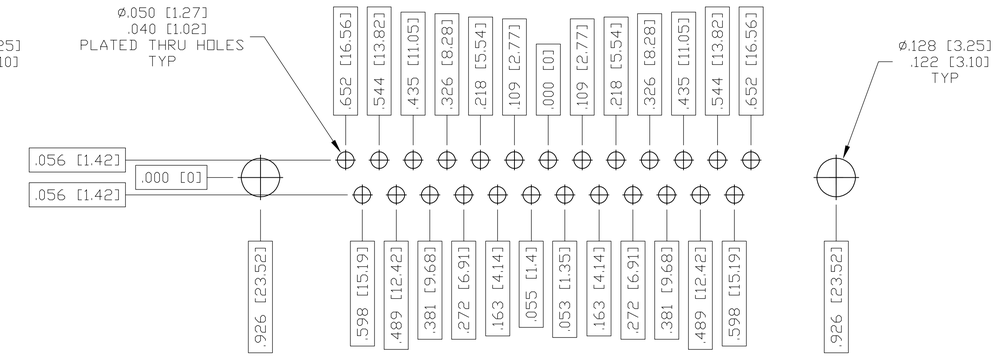
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET #1	-	-	-



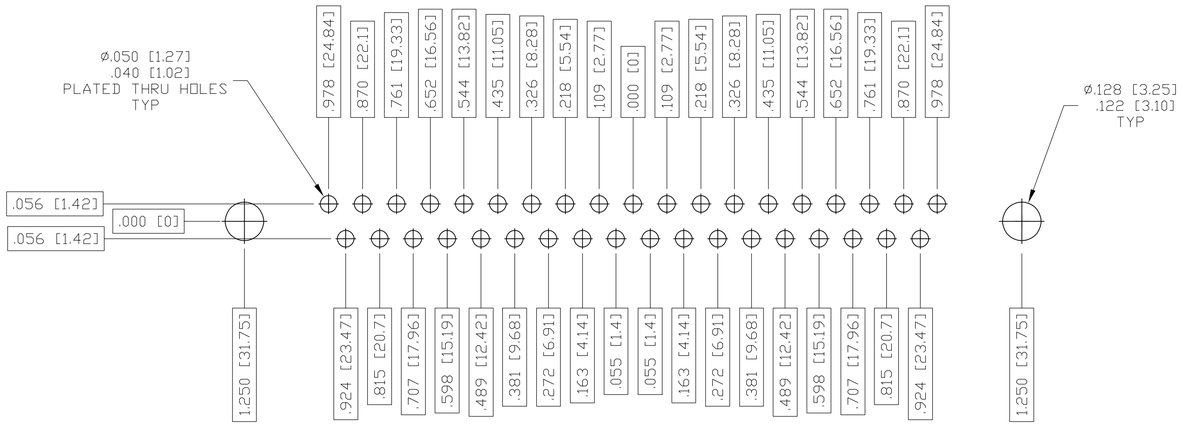
RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 1 (9 POSITION)



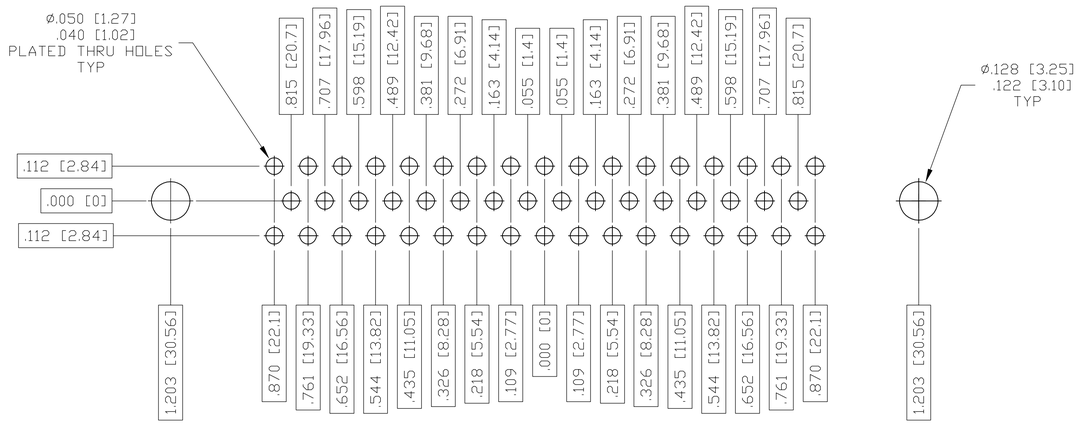
RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 2 (15 POSITION)



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.

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± -
1 PLC ± -
2 PLC ± -
3 PLC ± .010 [0.25]
4 PLC ± -
ANGLES ± 1/2°

MATERIAL: SEE CALLOUTS
FINISH: SEE CALLOUTS

DWN C.C.THOMAS 1-5-01
CHK CHAD BAKER 1-18-01
APVD CHAD BAKER 1-18-01
PRODUCT SPEC —
APPLICATION SPEC —
WEIGHT —

AMP Tyco Electronics Corporation
Harrisburg, PA 17105

NAME: PLUG ASSY,AMPLIMITE
RIGHT ANGLE,SERIES 109,SIZE
1 THRU 5

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-1218833	—

CUSTOMER DRAWING

SCALE 4:1 SHEET 2 OF 2 REV A