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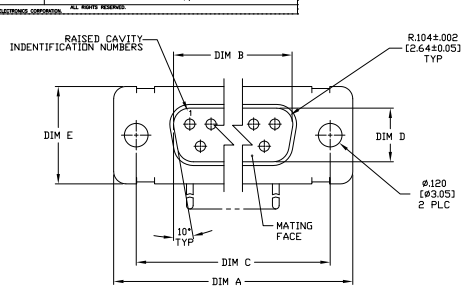
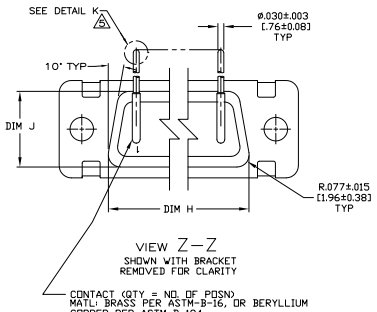
REVISIONS					
LTR	DESCRIPTION	DATE	EC#	APVD	
O	RELEASED	2-23-06	CT	DM	
A	REV PER ECO-08-018752	8-21-08	PK	BW	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS [INCHES]. TOLERANCES ARE: X ± .25 [.010], X.X ± .13 [.005], X.XX ± .05 [.002], ANGLES ± 2°. MATERIAL: SEE CALLOUTS. FINISH: SEE CALLOUTS.

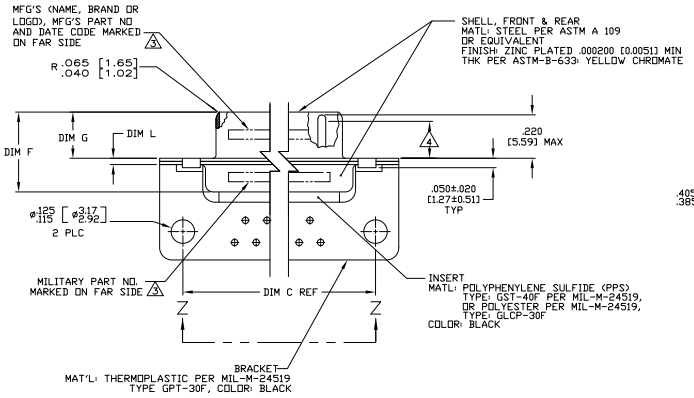


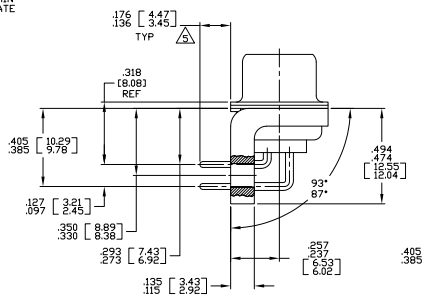


VIEW Z–Z
SHOWN WITH BRACKET REMOVED FOR CLARITY

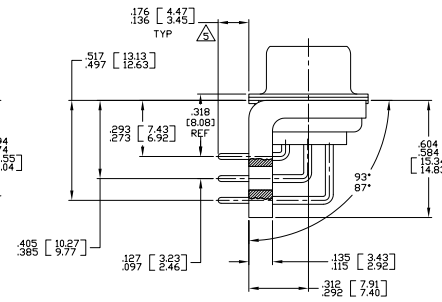
CONTACT (QTY = NO. OF POSN)
MATL: BRASS PER ASTM-B-16, OR BERYLLIUM COPPER PER ASTM-B-194
FINISH: GOLD PER ASTM-B-488, TYPE II, GRADE C, CLASS 1.27 IN CONTACT MATING AREA, .000010 [0.00031] MIN THK GOLD PER ASTM-B-488 OVER .000050 [0.00131] MIN THK NICKEL PER SAE-AMS-QQ-N-290 ON CONTACT BODY

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 SHELL IS TOO SMALL FOR THE ENTIRE MARKING
MARKING SHALL BE SPLIT AS FOLLOWS:
A. "M24308" ON FRONT SHELL, FAR SIDE.
B. SLASH SHEET AND DASH NUMBER ON REAR SHELL, FAR SIDE.
C. "MFG'S" (NAME, BRAND OR LOGO) AND DATE CODE ON FRONT SHELL, NEAR SIDE.
D. MFG'S PART NUMBER ON REAR SHELL, NEAR 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. SOLDER DIPPED PER J-STD-001 WITH Sn63 SOLDER PER J-STD-006 IN THE ENTIRE AREA OF DIMENSION SHOWN. (1757837-6 THRU -10 ONLY.)
6. MEETS SOLDERABLITY PER MIL-STD-202 METHOD 208.





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	MILITARY P/N 3 ON CONNECTOR	MFG'S P/N MARKED ON CONNECTOR 3	MFG'S 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	M24308/24-35	1757837-5	1-1757837-0 3
.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	M24308/24-34	1757837-4	1757837-9 3
.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	M24308/24-33	1757837-3	1757837-8 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	M24308/24-32	1757837-2	1757837-7 3
.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	M24308/24-31	1757837-1	1757837-6 3
.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	M24308/24-35	1757837-5	1757837-5
.049 [1.24] .029 [0.74]	.432 [10.97] .416 [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	M24308/24-34	1757837-4	1757837-4
.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	M24308/24-33	1757837-3	1757837-3
.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	M24308/24-32	1757837-2	1757837-2
.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	M24308/24-31	1757837-1	1757837-1

.030 [.76] MAX EXTENSION PERMISSIBLE DUE TO SOLDER DIPPING

DETAIL K
SCALE 10:1
FOR 1757837-6 THRU -10 ONLY 5

THIS DRAWING IS A CONTROLLED DOCUMENT.	DR C.C.THOMAS 2-23-06	Tyco Electronics Corporation Harrisburg, PA 17105-3608	
	CHK D.MILLER 2-23-06		
	APVD D.MILLER 2-23-06	PLUG ASSEMBLY,AMPLIMITE,RT ANGLE, SERIES 109,SIZE 1 THRU 5	
	PRODUCT SPEC —		
	APPLICATION SPEC —	SIZE A1	CAGE CODE 00779 DRAWING NO C-1757837
	WEIGHT —	SCALE 4:1	SHEET 1 OF 2
	CUSTOMER DRAWING		REV A

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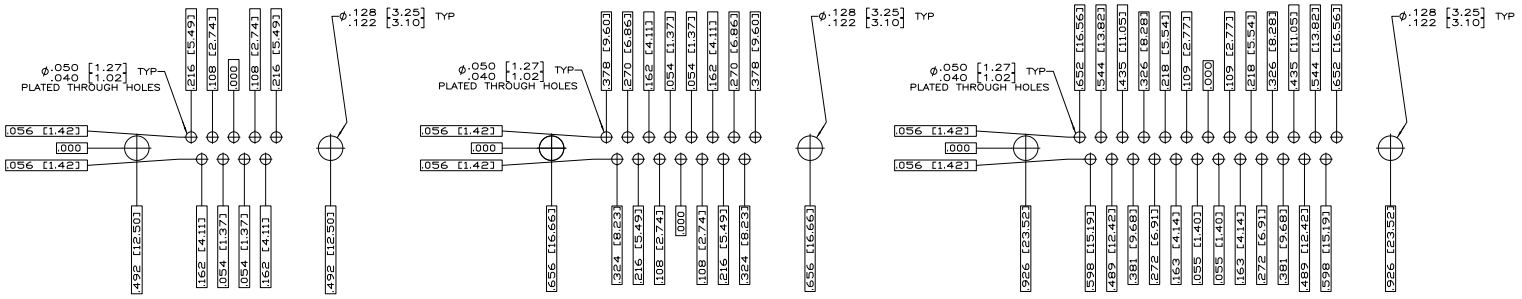
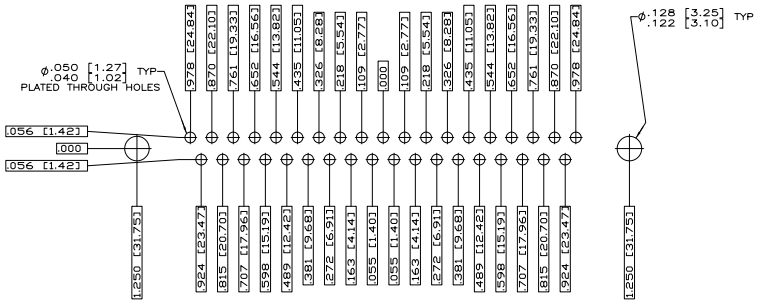


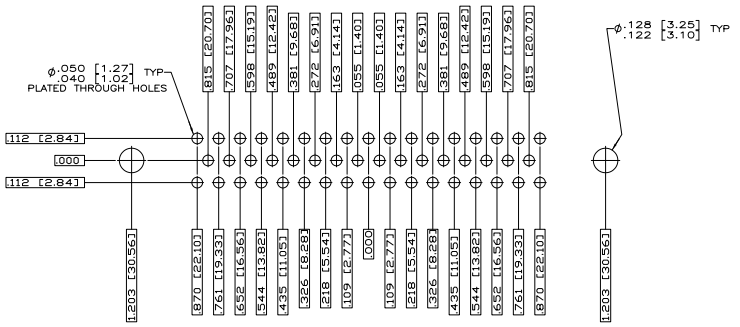
RECOMMENDED P.C. BOARD LAYOUT
SHELL SIZE 1 (9 POSITION) ⚠

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) ⚠

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LOC	DIST
DF	D0

REVISIONS

P	LTR	DESCRIPTION	DATE	EBR	APVD
–	–	SEE SHEET 1	–	–	–

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES
TOLERANCES UNLESS SPECIFIED: 0 PLC ± –, 2 PLCS ± –, 3 PLCS ± –, 4 PLCS ± –, ANGLES ± 1°
MATERIAL: SEE CALLOUTS
FINISH: SEE CALLOUTS

DR	C.C.THOMAS	2-23-06
CK	D.HOFFMAN	2-23-06
APV	D.MILLER	2-23-06
PRODUCT SPEC	–	
APPLICATION SPEC	–	
WEIGHT	–	

CUSTOMER DRAWING

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

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

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-1757837	–

SCALE 4:1 SHEET 2 OF 2 REV A

AMP 4805 REV 31MAR2000

27MAR2006 10:54am up016412 H:\docmgd\1757837_2_c.dwg

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