

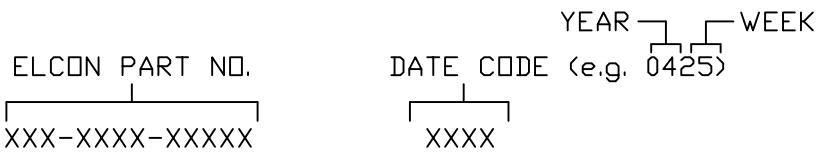
This drawing involves proprietary design rights of Tyco Electronics Corporation, and all design, manufacture, reproduction, use and sale rights regarding the same are expressly reserved. It is submitted for a specific purpose and the recipient by accepting this drawing, assumes custody and control and agrees to take reasonable precautions; (a) that this drawing will not be copied and reproduced, in whole or in part, or its contents revealed in any manner, or to any person except to meet the purpose for which it was delivered and (b) that any special features peculiar to this design will not be incorporated in other projects without the expressed written permission of Tyco Electronics Corporation.

## REVISIONS

EC	REV	DESCRIPTION	DATE
DS1Q-0029-05	A	NEW RELEASE	01/19/05

B

8. ITEMS PROVIDED TO THIS SPECIFICATION TO BE PERMANENTLY IDENTIFIED PER THE FOLLOWING IDENTIFIER:



7. RECOMMENDED PRESSING TOOL:

FIX00058 FOR PART NUMBER 285-0102-01300.  
CONTACT ELCOM FOR TOOLING QUOTE OR TO ORDER.

6 EXAMPLE PCB CONFIGURATION.

5 THIS 2X2 SEGMENT CONFIGURATION SHOWN IS FOR REFERENCE ONLY.  
COMBINATION OF MULTIPLE NUMBERS OF 2 AND 3 SEGMENT MODULES COULD BE USED PER USER PREFERENCE.  
OVERALL COMBINATION SHOULD NOT EXCEED 8.0" IN LENGTH.

4 SOCKETS ACCEPT 1.6 [.062] ±10% THICK PC BOARD.

3. FINISHES:

CONTACTS: SELECTIVE GOLD PER MIL-G-45204, TYPE II,  
CLASS 0, .000030" MIN. THK,  
OVER NICKEL PER QQ-N-290, CLASS 2,  
.000040" MIN. THICK.

TERMINALS: TIN PLATE, MATTE FINISH,  
.000100" MINIMUM THICKNESS

2. MATERIALS:

INSULATORS: THERMOPLASTIC, GLASS REINFORCED,  
COLOR-BLACK,  
UL94V-0 FLAMMABILITY RATED.

CONTACTS: PHOSPHOR BRONZE ALLOY

1. PART NUMBER CHANGES AND OR DESIGN CHANGES AFFECTING ITEM INTERCHANGEABILITY REQUIRE PRIOR ELCOM APPROVAL AND AUTHORIZATION BY REVISION TO THIS DRAWING.

NOTES: UNLESS OTHERWISE SPECIFIED;

9. PART NUMBER INFORMATION

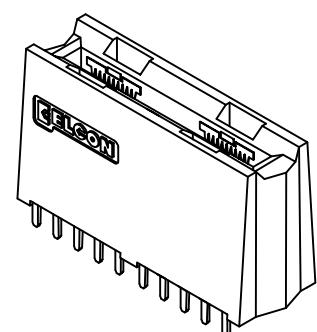
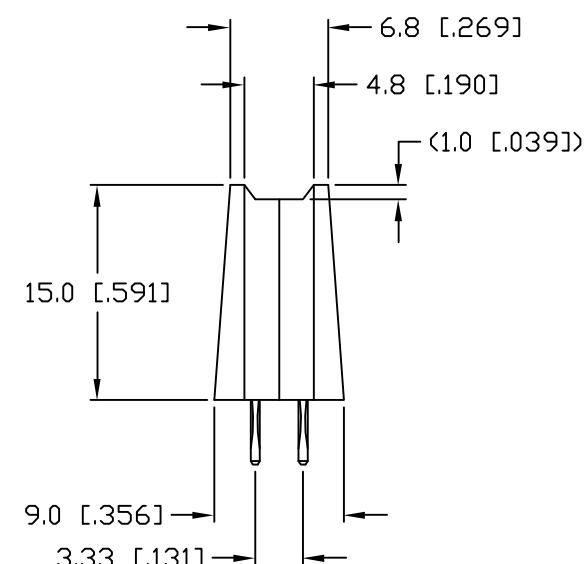
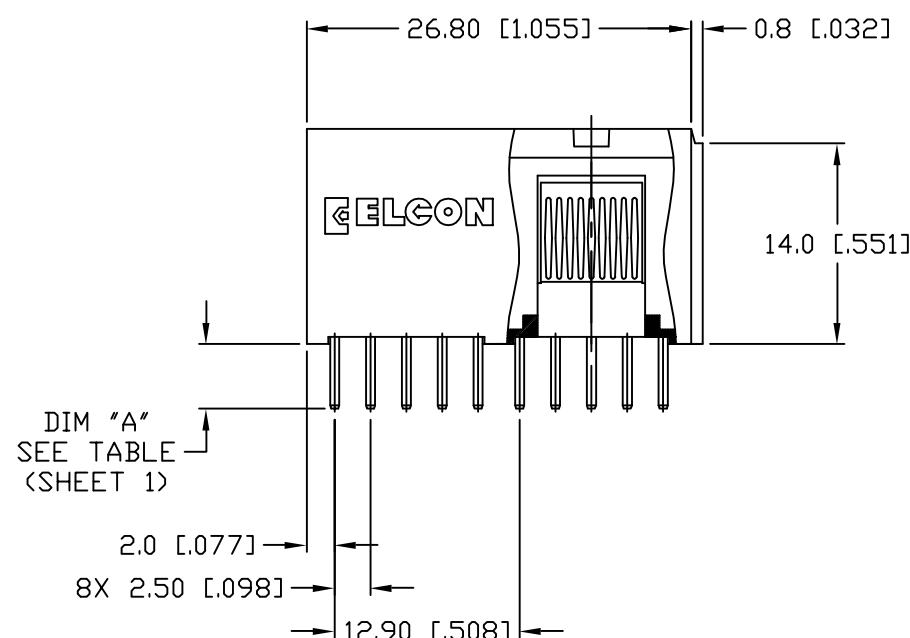
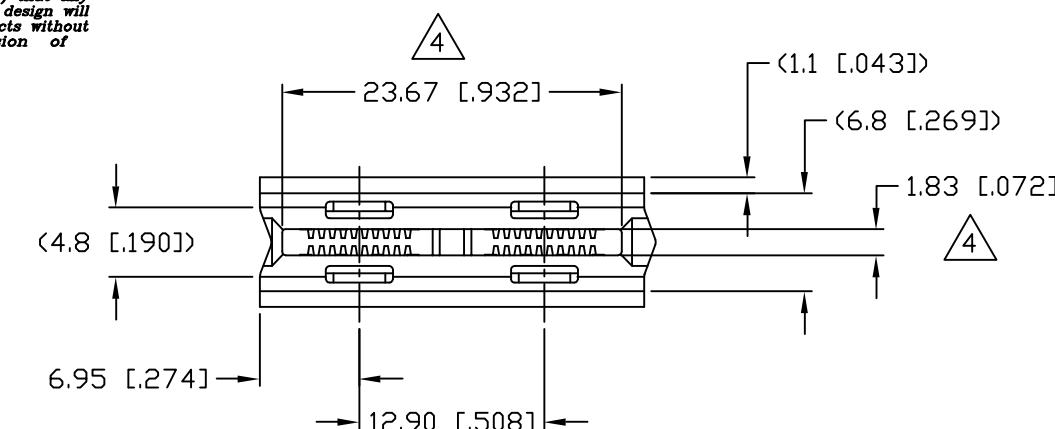
CONNECTOR	REFERENCE TYCO PN	ELCON PART NUMBER	TERMINATION TYPE	PC TAIL LENGTH DIM "A"	RECOMMENDED MOUNTING BOARD	MATING BOARD
SOCKET	6651170-3	285-0102-12100	SOLDER TAIL (SHORT)	3.56 [.140] 2.54 [.100]	1.6 [.062] THICK	1.6 [.062] THICK
SOCKET	6651170-1	285-0102-12300	SOLDER TAIL (STANDARD)	5.08 [.200] 4.06 [.160]	3.2 [.125] OR THINNER	1.6 [.062] THICK
SOCKET	6651170-2	285-0102-11300	COMPLIANT TAIL	5.08 [.200] 4.06 [.160]	2.3 [.093] OR THICKER	1.6 [.062] THICK

 THIRD ANGLE PROJECTION	DRAWN R. F. A.	DATE 01/19/05	 Tyco Electronics Corporation Menlo Park, Ca 94025
	CHECKED		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES]	APPROVED		TITLE SOCKET CONNECTOR, CROWN EDGE
TOLERANCES	APPROVED		PN: 285-0102-12100/285-0102-12300
ANGLES ± .5°	APPROVED D. CHAU 02/11/05		PN: 285-0102-11300
DECIMALS	DCA APPROVED M. ALIM 03/02/05	SIZE B	DWG NUMBER C = 6651170
.XX ± .25 [.010]			REV. A
.X ± .5 [.020]	ACAD FILE NUMBER C6651170A.DWG		DWG SCALE 2=1
			SH 1 OF 5

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## REVISIONS

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SEE SHEET 1			

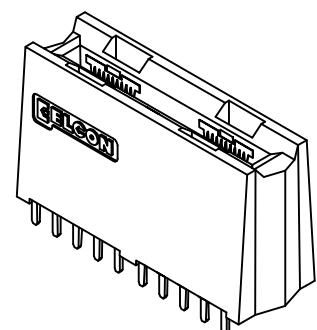
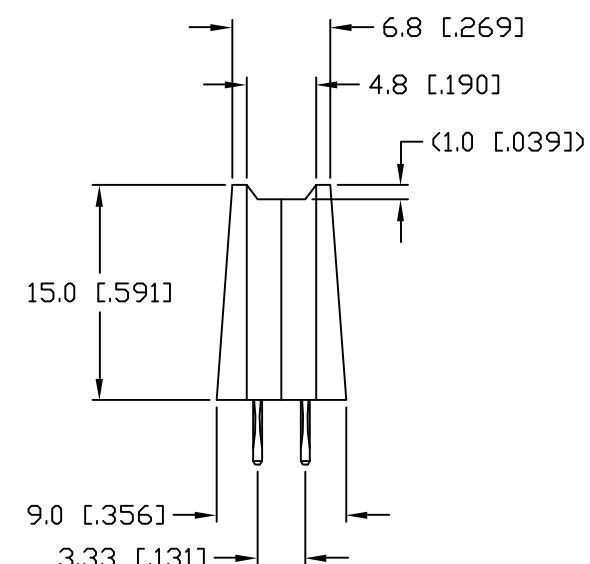
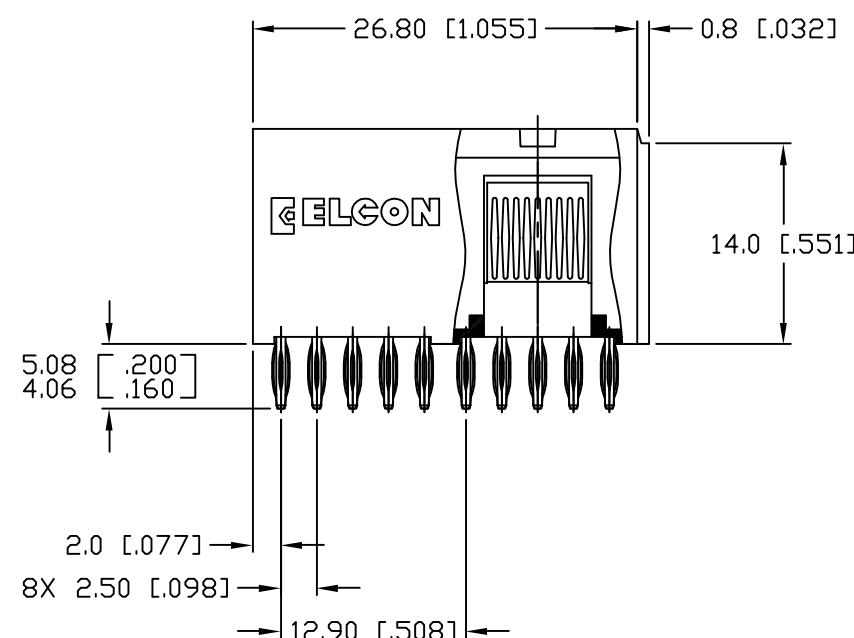
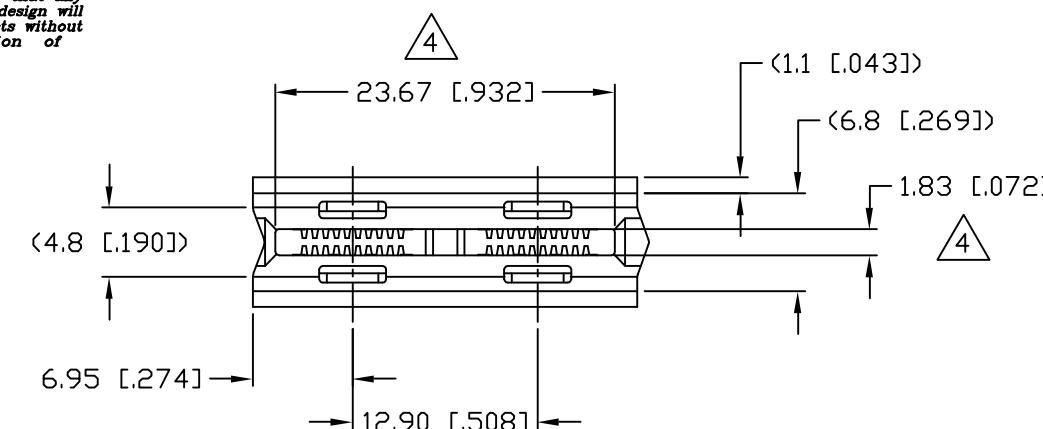


 <b>THIRD ANGLE PROJECTION</b>	DRAWN	DATE	<b>tyco</b> <b>Electronics</b> Tyco Electronics Corporation Menlo Park, Ca 94025 <b>ELCON</b>
	CHECKED		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES]	APPROVED		<b>TITLE</b>
TOLERANCES	APPROVED		SOCKET CONNECTOR, CROWN EDGE STRAIGHT, 2 SEG, 4 PWR, SOLDER, NHP
ANGLES $\pm .5^\circ$	APPROVED		PN: 285-0102-12100/12300
DECIMALS	D. CHAU	02/11/05	
.XX $\pm .25$ [.010]	DCA APPROVED		<b>SIZE</b>
.X $\pm .5$ [.020]	M. ALIM	03/02/05	<b>DWG NUMBER</b>
			<b>C</b> = 6651170
			<b>REV.</b>
			A
	ACAD FILE NUMBER	C6651170A.DWG	DWG SCALE 2=1 SH 2 OF 5

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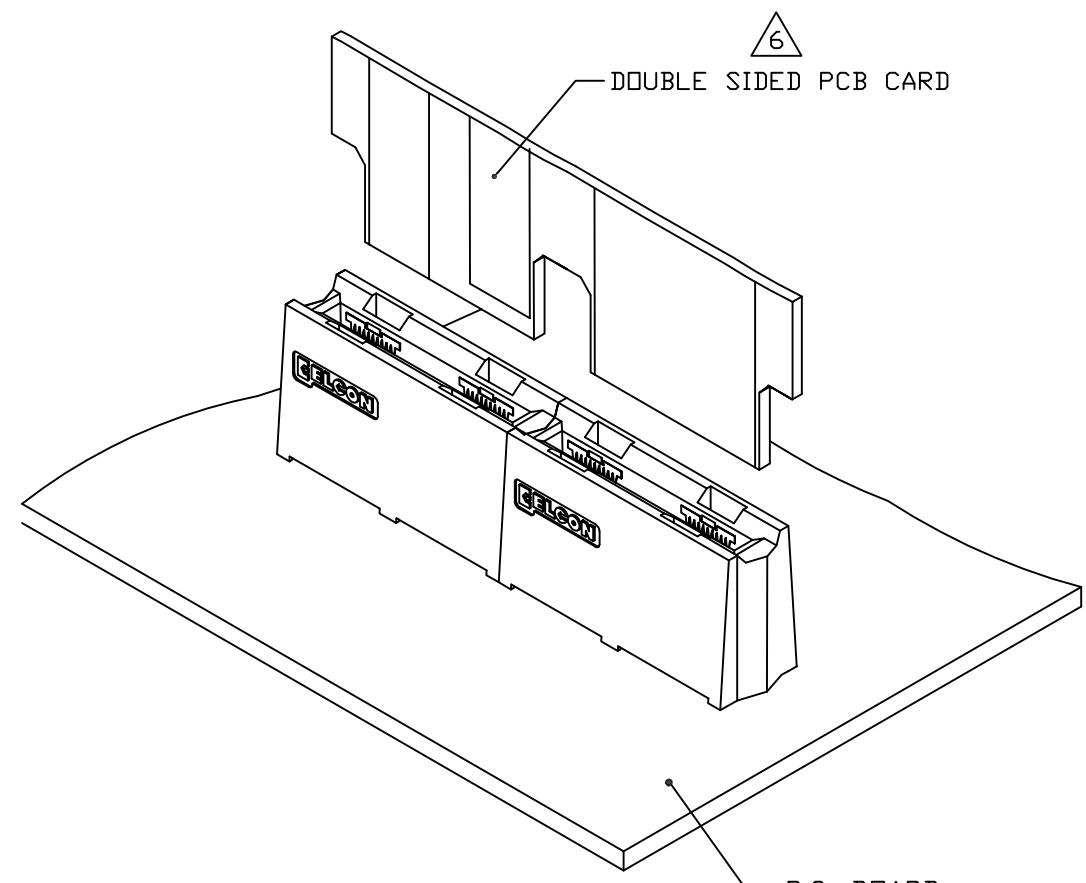
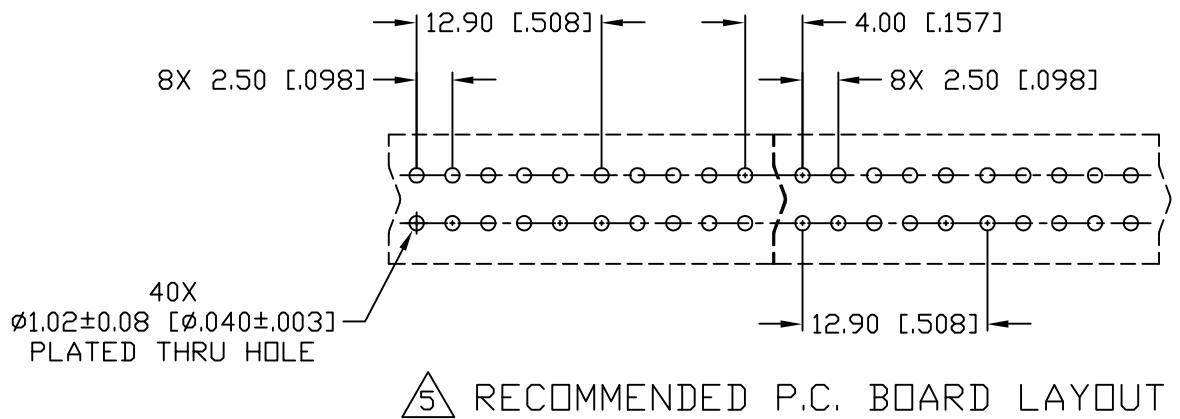
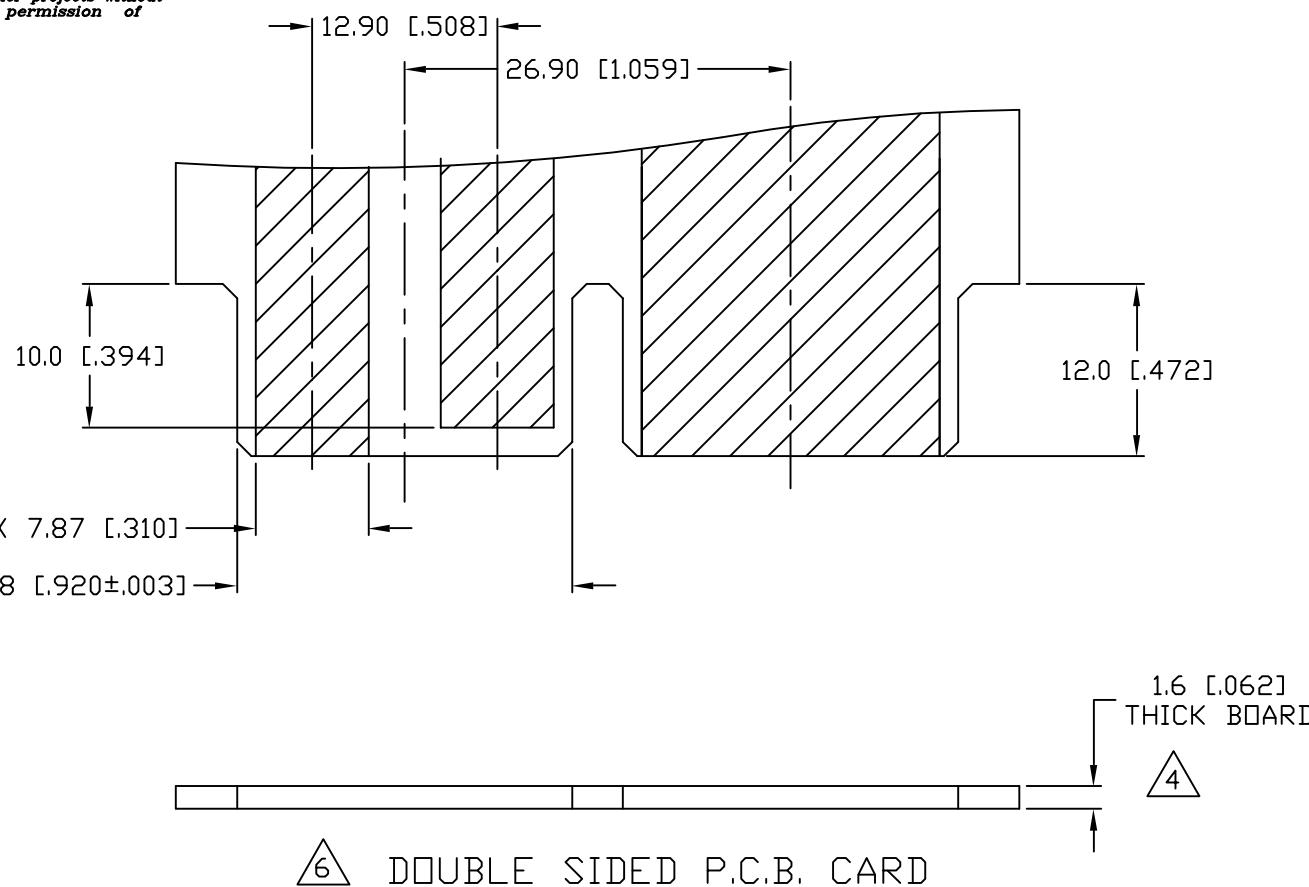


 <b>THIRD ANGLE PROJECTION</b>	DRAWN	DATE	<b>tyco</b> <b>Electronics</b> Tyco Electronics Corporation Menlo Park, Ca 94025 <b>ELCON</b>
	CHECKED		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES]	APPROVED		<b>TITLE</b>
TOLERANCES	APPROVED		SOCKET CONNECTOR, CROWN EDGE STRAIGHT, 2 SEG, 4 POWER, COMPLIANT
ANGLES $\pm .5^\circ$	APPROVED		PN: 285-0102-11300
DECIMALS	D. CHAU	02/11/05	
.XX $\pm .25$ [.010]	DCA APPROVED		
.X $\pm .5$ [.020]	M. ALIM	03/02/05	
	ACAD FILE NUMBER	C6651170.DWG	
	SIZE	DWG NUMBER	REV.
	B	C - 6651170	A
	DWG SCALE	2=1	SH 3 OF 5

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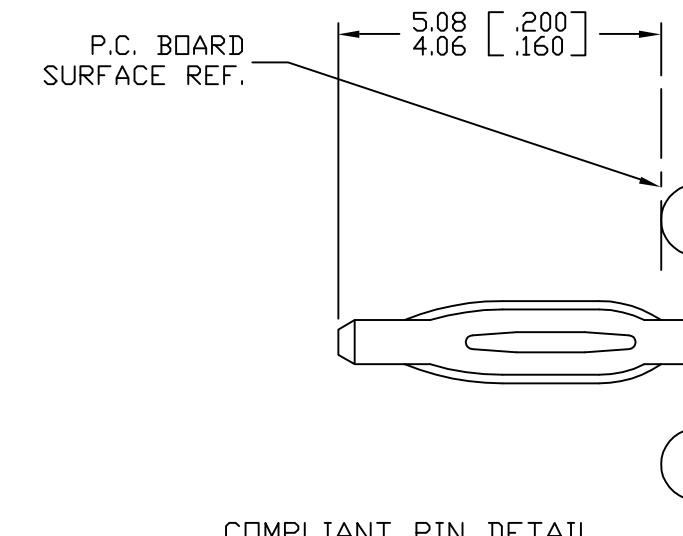
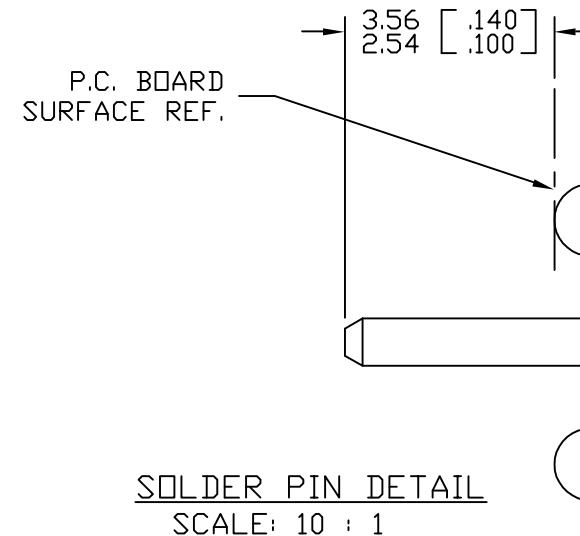
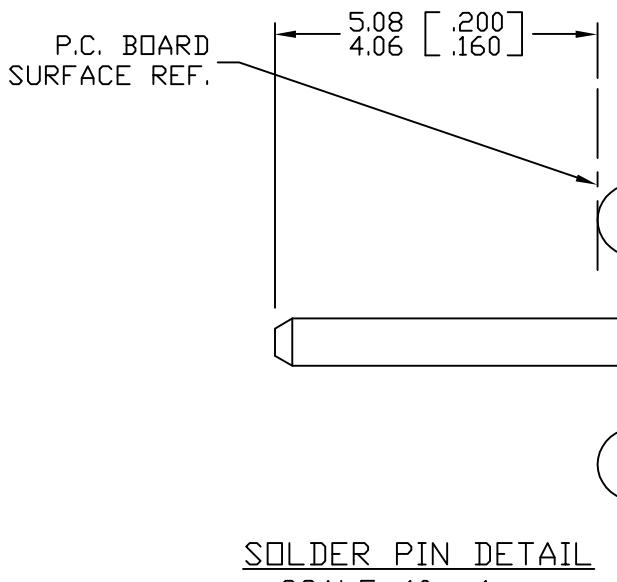


 <b>THIRD ANGLE PROJECTION</b> <small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES]</small>	DRAWN	DATE	 Tyco Electronics Corporation Menlo Park, Ca 94025 <b>ELCON</b>
	CHECKED		
APPROVED			
APPROVED			
ANGLES $\pm .5^\circ$			
DECIMALS			
.XX $\pm .25$ [.010]			
.X $\pm .5$ [.020]			
ACAD FILE NUMBER	C6651170.DWG	REV.	
			A
DWG SCALE	2=1	SH 4 OF 5	

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INSERTION/EXTRACTION FORCES  
MAXIMUM PUSH IN: 133.3N PER PIN  
[30 LBS]  
MINIMUM PUSH OUT: 44.4N PER PIN  
[10 LBS]

RECOMMENDED PRINTED CIRCUIT HOLE  
SOLDER OR COMPLIANT PRESS FIT  
FINISHED HOLE:  $\phi 1.02$  [.040]  $\pm .08$  [.003]  
DRILLED HOLE:  $\phi 1.15$  [.0453]  $\pm .013$  [.0005]  
COPPER PLATE: .025 [.0010] MINIMUM (PER SURFACE)  
TIN PLATE: .008 [.0003] MINIMUM (PER SURFACE)

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TOLERANCES	APPROVED		
ANGLES $\pm .5^\circ$	D. CHAU	02/11/05	
DECIMALS	DCA APPROVED		
.XX $\pm .25$ [.010]	M. ALIM	03/02/05	
.X $\pm .5$ [.020]	ACAD FILE NUMBER	C6651170.DWG	DWG SCALE 2=1 SH 5 OF 5
			REV. A

