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## REVISIONS

EC	REV	DESCRIPTION	DATE
—	A	NEW RELEASE	06/28/05

## 6. MODULE INFORMATION

CONNECTOR	TYCO PART NUMBER	CATALOG MODULE #	QTY	SIZE NO.	CONTACT QTY	MATING PIN	MAX. CURRENT (PER CONTACT)	CONTACT SPACING	VOLTAGE RATING*
SOCKET	1766687-1	FP0250	6	8	6	.125 X 7.00 [.049 X .276]	35 AMPERES	7.50 [.2953]	250 VOLTS
		FP0254	4	8	4	.125 X 7.00 [.049 X .276]	35 AMPERES	12.00 [.4724]	600 VOLTS
		FP0401	2	22	48	.64 [.025] SQ.	3 AMPERES	2.50 [.0984]	125 VOLTS
		FP0503	2	STRAIGHT GUIDE PIN					
		FP0500	1	LEFT MOUNTING FLANGE					
		FP0501	1	RIGHT MOUNTING FLANGE					

NOTES: UNLESS OTHERWISE SPECIFIED.

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

2. MATERIALS:

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

COMPLIANT SIGNAL PIN: PHOSPHOR BRONZE ALLOY.

POWER CONTACTS: COPPER ALLOY.

GUIDE PIN: BRASS COPPER ALLOY.

3. FINISHES:

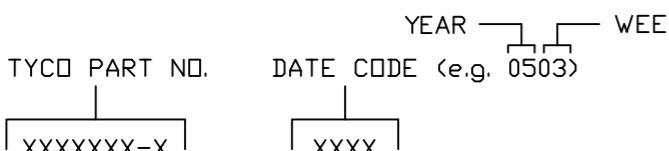
CONTACTS: GOLD PLATED PER MIL-G-45204 TYPE II, CLASS 0, .000030" MIN. THICK OVER NICKEL PER QQ-N-290, CLASS 2, .000040" MIN. THICKNESS.

TERMINALS: TIN PLATED, MATTE FINISH .000040" MIN. THICKNESS.

GUIDE PIN: NICKEL PLATED PER AMS 2404.

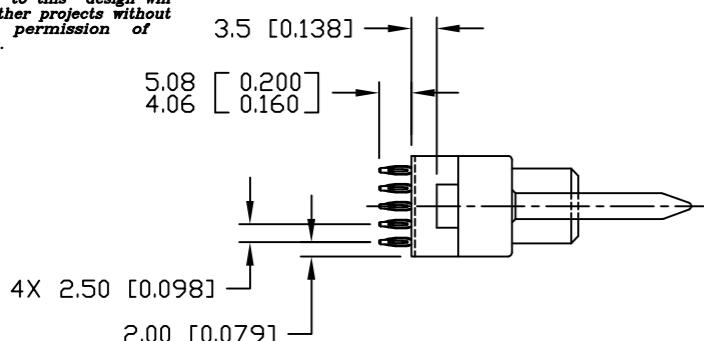
4 MOUNTING FLANGES ACCEPT M3 OR NO. 4 SCREWS, (USER SUPPLIED)

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

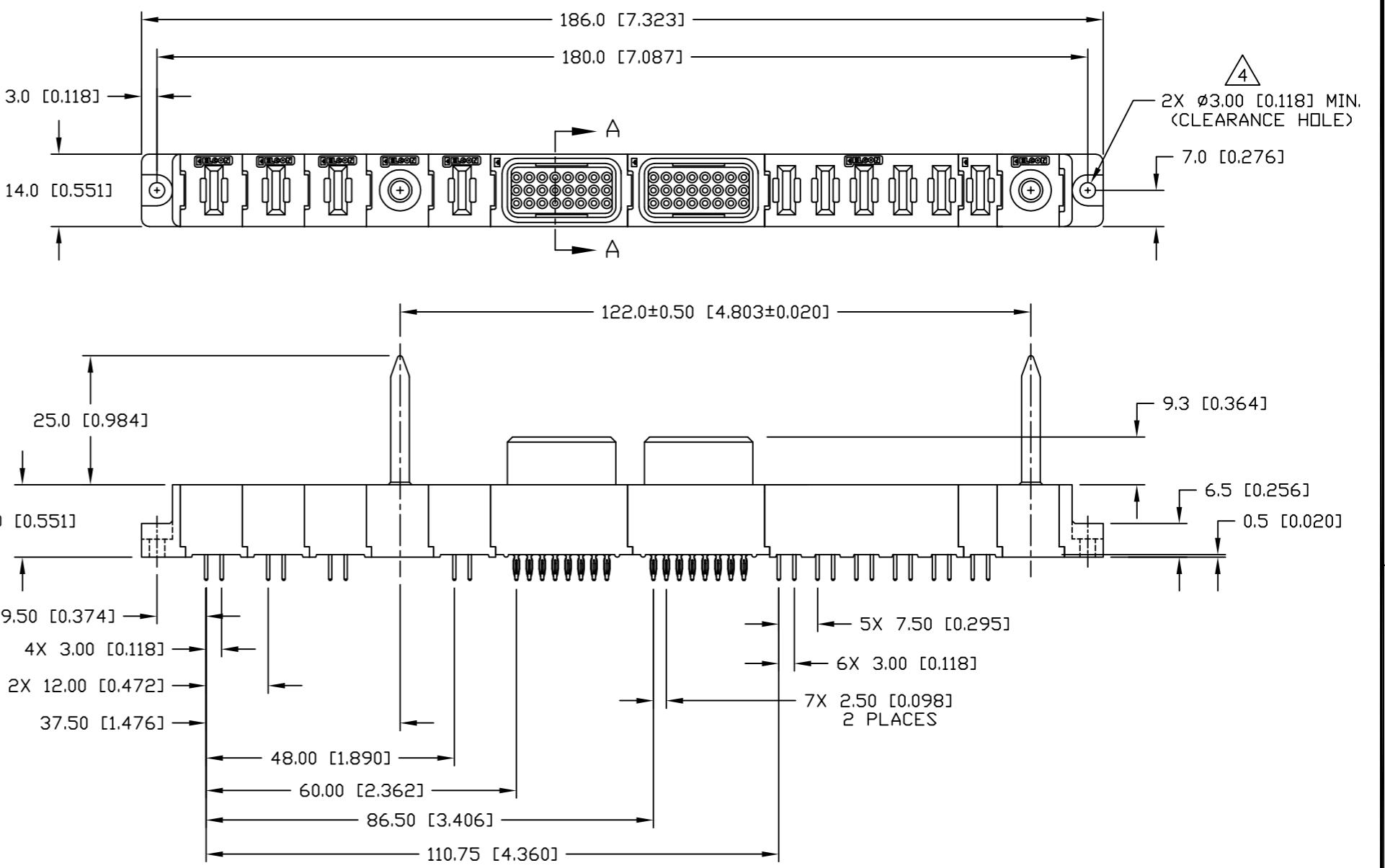


 THIRD ANGLE PROJECTION	DRAWN	DATE	<b>tyco</b> <b>Electronics</b>	Tyco Electronics Corporation Menlo Park, Ca 94025
	checked	06/03/05		
<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES]</small>	APPROVED		<b>ELCON</b>	TITLE  CONNECTOR, SOCKET, STRAIGHT COMPLIANT TAILS FLATPAQ
	APPROVED			
<small>TOLERANCES ANGLES <math>\pm .5^\circ</math></small>	APPROVED	06/28/05	<b>DCA APPROVED</b> <b>M. ALIM</b>	SIZE      DWG NUMBER B      C = 1766687 REV.      A
	APPROVED	06/29/05		
DECIMALS	.XX $\pm .25$ [.010]		ACAD FILE NUMBER C1766687A.DWG	DWG SCALE 1 = 1      SH 1 OF 4
	.X $\pm .5$ [.020]			

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REVISIONS		DESCRIPTION	DATE
EC	REV		
SEE SHEET 1			



### SECTION A-A

2 PLACES

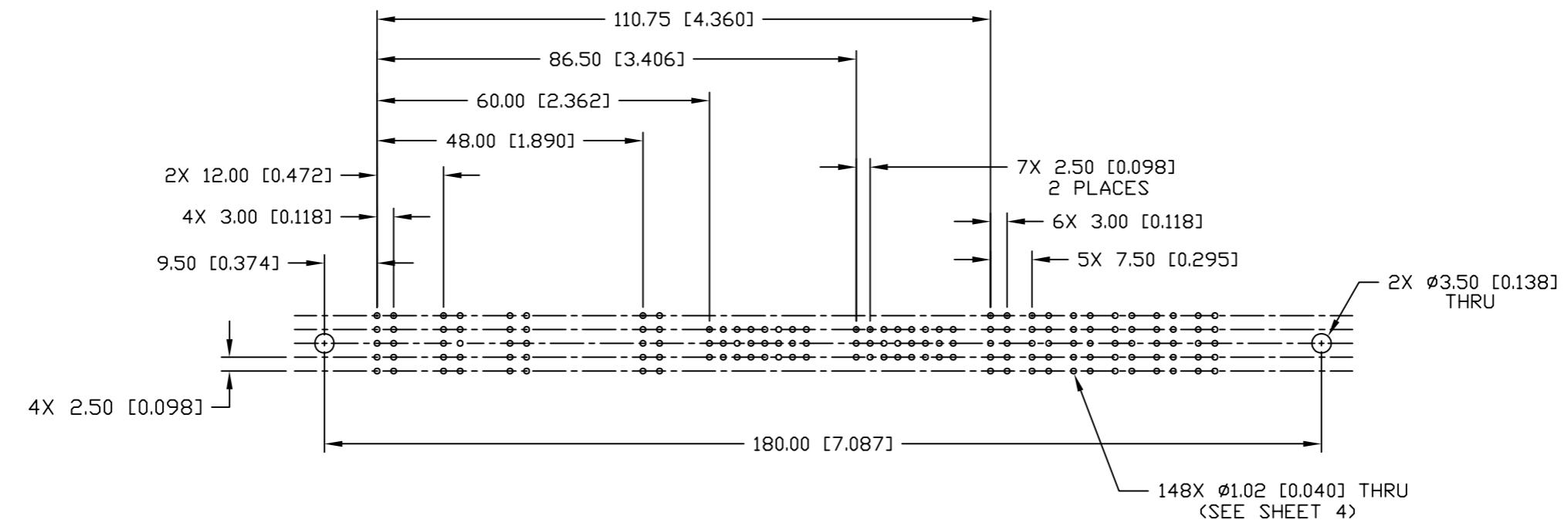
GENDER CHANGER NOT SHOWN FOR CLARITY

 <b>THIRD ANGLE PROJECTION</b>	DRAWN	DATE	 <b>Tyco Electronics</b>	<b>TITLE</b> CONNECTOR, SOCKET, STRAIGHT COMPLIANT TAILS FLATPAQ
	R. F. A.	06/03/05		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES]	CHECKED			
TOLERANCES	APPROVED			
ANGLES $\pm .5^\circ$	APPROVED			
DECIMALS	D. CHAU	06/28/05		
.XX $\pm .25$ [.010]	DCA APPROVED			
.X $\pm .5$ [.020]	M. ALIM	06/29/05		
	ACAD FILE NUMBER	C1766687A.DWG	REV.	
			C = 1766687	A
	DWG SCALE	1 = 1	SH 2 OF 4	

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EC	REV	DESCRIPTION	DATE
		SEE SHEET 1	



## PRINTED CIRCUIT LAYOUT

 <b>THIRD ANGLE PROJECTION</b>	DRAWN	DATE	<b>tyco</b> <b>Electronics</b>	Tyco Electronics Corporation Menlo Park, Ca 94025
	CHECKED			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN METRIC [INCHES]	APPROVED		<b>ELCON</b>	<b>TITLE</b>  CONNECTOR, SOCKET, STRAIGHT COMPLIANT TAILS FLATPAQ
	APPROVED			
TOLERANCES ANGLES $\pm .5^\circ$ DECIMALS $.XX \pm .25 [.010]$ $.X \pm .5 [.020]$	D. CHAU	06/28/05	<b>SIZE</b> <b>DWG NUMBER</b>	<b>REV.</b>  <b>C</b> = 1766687 <b>A</b>
	DCA APPROVED M. ALIM	06/29/05		
ACAD FILE NUMBER C1766687A.DWG			DWG SCALE	1 = 1
			SH 3 OF 4	

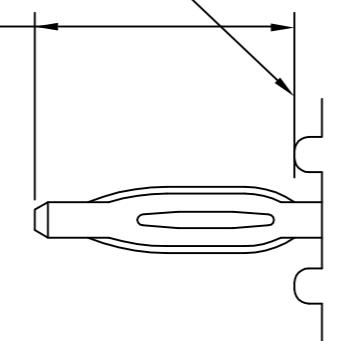
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		SEE SHEET 1	

P.C. BOARD  
SURFACE (REF)

5.08 [ 0.200 ]  
4.06 [ 0.160 ]



## COMPLIANT PIN DETAIL

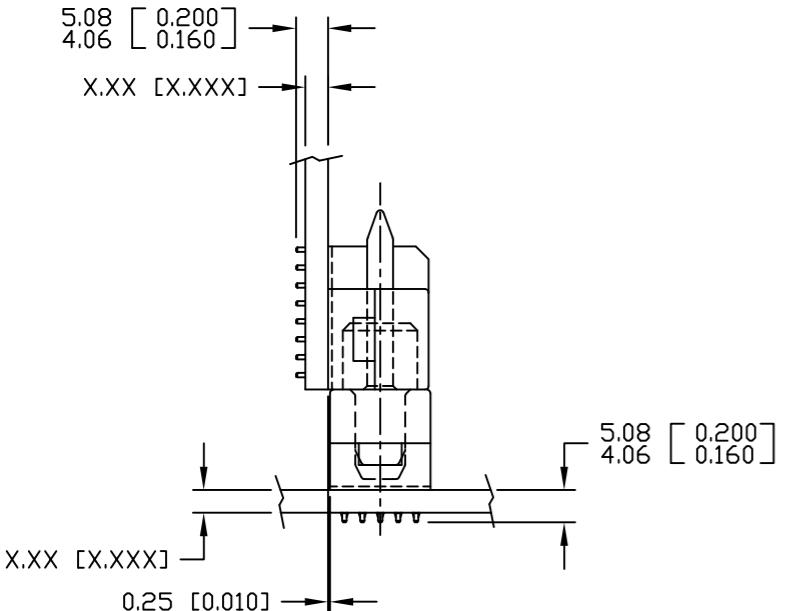
## INSERTION/EXTRACTION FORCES

MAXIMUM PUSH-IN: 133.3N PER PIN  
[30 LBS]

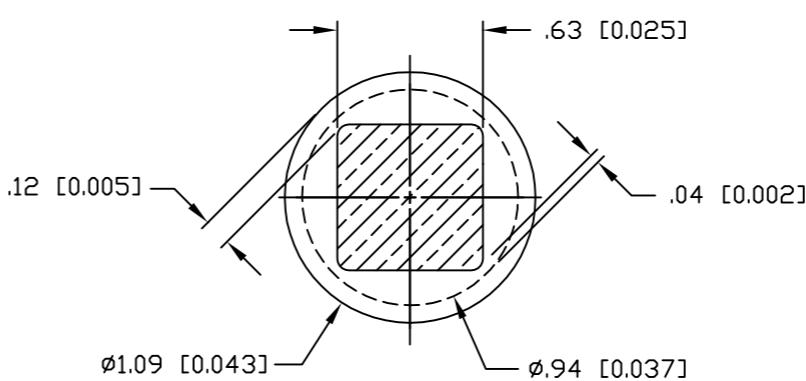
MINIMUM PUSH-OUT: 44.4N PER PIN  
[10 LBS]

5.08 [ 0.200 ]  
4.06 [ 0.160 ]

X.XX [X.XXX]



## MATED CONDITION



## SOLDER TERMINATION AREA

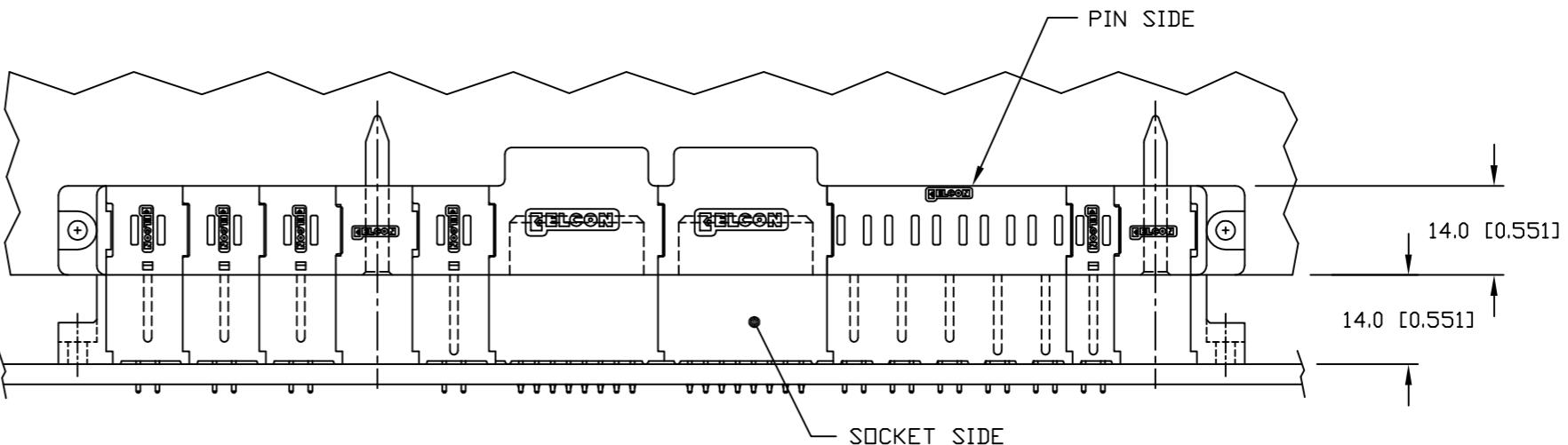
## RECOMMENDED PRINTED CIRCUIT HOLE

FINISHED HOLE: Ø1.02 [0.040] ±.08 [0.003]

DRILLED HOLE: Ø1.15 [0.0453] ±.013 [0.005]

COPPER PLATE: .025 [0.0010] MINIMUM (PER SURFACE)

TIN PLATE: .008 [0.0003] MINIMUM (PER SURFACE)



MM  
INCH  
OR MM [INCH]  
THIRD ANGLE PROJECTION

UNLESS OTHERWISE  
SPECIFIED DIMENSIONS  
ARE IN METRIC [INCHES]

## TOLERANCES

ANGLES ± .5°

## DECIMALS

.XX ± .25 [.010]

.X ± .5 [.020]

DRAWN  
R. F. A.  
DATE  
06/03/05

CHECKED

APPROVED

APPROVED

D. CHAU  
06/28/05

DCA APPROVED

M. ALIM  
06/29/05

ACAD FILE NUMBER

**tyco**  
**Electronics** Tyco Electronics Corporation  
Menlo Park, Ca 94025 **ELCON**

## TITLE

USER INFORMATION  
COMPLIANT TAIL TERMINATION  
AND MATED CONDITION

SIZE DWG NUMBER  
B C - 1766687

REV.  
A

DWG SCALE 1 = 1 SH 4 OF 4

# Mouser Electronics

Authorized Distributor

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[TE Connectivity:](#)

[1766687-1](#)